

## Ashbridges Bay Treatment Plant – WAS Thickening Facility

FEATURE PROJECT



### Project Requirements

The waste activated sludge (WAS) thickening facility plays an important role in the wastewater treatment process by optimizing the treatment of the sludge generated. Kenaidan's contract involves replacing the thickening process with a centrifugal thickening facility to improve processing performance and meet capacity requirements.

The project requires significant selective demolition, process relocations, abatement, and substation upgrades, including replacing high-voltage transformers, 5 kV and 15 kV switchgears and numerous low-voltage and control upgrades. Parts of the existing foundation will be retained during the demolition of the Waste Heat Recovery and Incinerator Buildings. These foundations, along with existing piles and over 225 new piles, will form the support for the WAS facility.

The 20-metre-tall superstructure will be a conventional concrete structure for tankage and structural steel for the main facility. The exterior will feature a green living roof, solar wall cladding, and insulated metal panelling. The primary process includes seven thickening centrifuges designed and manufactured by Alfa Laval Inc.

The internal relocation of plant water, WAS, and centrate piping, and installation of a new 600 mm diameter storm system and structural steel to strengthen the north wall is now completed. In addition, we have modified the south substation and stack, contributing to the overall functionality and efficiency of the plant.

Work began in October 2021 and is scheduled to be completed in 2028. To date, we have finished selective demolition, underground service installations and relocations, and gas main and duct bank system installations. Currently, we are installing the freight elevator and modifying the silo building.

### Roles & Responsibilities

**Owner:** City of Toronto  
**Consultant:** Black & Veatch Canada  
**Demolition & Abatement:** Budget Demolition – Div. of York1  
**Excavation & Site Services:** Pall-Con Construction Ltd.  
**Piling:** Bauer Foundations Canada  
**Formwork & Concrete Placement:** Talvan Construction  
**Rebar:** Salit Steel  
**Masonry:** Bernel Masonry Ltd.  
**Structural Steel:** E.S. Fox Limited  
**Roofing:** Triumph Roofing & Sheet Metal Inc.  
**Fire Protection Systems:** Vipond Inc.  
**Cladding, Aluminum Windows, Doors & Glazing:** Gage Metal Cladding Limited  
**Mechanical, Process, Instrumentation, Electrical:** Modern Niagara  
**Thickening Centrifuge Supply:** Alfa Laval Inc.

While awaiting delivery of the 5 kV switchgear, preparatory demolition and protection measures of the substation's existing electrical system are underway.

Following the completion of the WAS facility, we will take the Dissolved Air Flotation Building out of service and perform selective demolition and structural modifications as the final contract milestone.

The facility, part of the Ashbridges Bay Treatment Plant, the largest of four plants owned and operated by the City of Toronto, will remain operational throughout construction.

### Key Challenges

- Working in a complex site with multiple projects being constructed in parallel
- Zero unplanned interruption to the south substation
- Working with and disposal of hazardous materials
- Long lead time manufacturing of key process equipment
- Staged deliveries to accommodate the limited site space available
- Planning, preparing, and executing critical plant system shutdowns (temporary and permanent)

### Inside This Issue



**PROJECT UPDATE**  
 Eglinton GO Station  
 Accessibility Upgrades –  
 Design-Build



**OUR MESSAGE**  
 Celebrating 50 Years  
 of Team Kenaidan



**POINT OF INTEREST**  
 Milestone Moments:  
 Team Kenaidan Newsletter





# Eglinton GO Station Accessibility Upgrades – Design-Build

## PROJECT UPDATE



### Key Challenges

- Confined site and work areas, which minimized lay down area for equipment and storage
- Coordination of weekend shutdowns for the tunnel and platform rehabilitation
- Staged/phased work to maintain unimpeded access for customers, ensuring uninterrupted GO Transit, VIA Rail, and freight train passage at all times
- High daily train volume requires detailed coordination and consideration for track safety
- Delays in securing distribution panels

### Roles & Responsibilities

**Owner:** Metrolinx

**Consultant:** Arcadis

**Structural Engineer:**  
Read Jones Christoffersen Ltd.

**Environmental Services:** Groundwater  
Environmental Management Services Inc.

**Concrete Formwork, Placement & Civil:**  
Kenaidan Contracting Ltd.

**Mechanical:** Kenaidan Contracting Ltd.,  
HTS Engineering Ltd., Landon Mechanical Inc.

**Electrical:** Montana Electrical Contractors Ltd.

**Static Signage:** Spectra Advertising

**Painting:** Marando Painting Ltd.

**Elevators:** ATTA Elevators Construction Ltd.

**Framing & Gypsum, Soffit Panels:**  
JTH Construction Company Ltd.

**Porcelain Ceramic Panel System:**  
Dimcon Inc.

**Doors, Frames & Curtain Wall and Glass:**  
Crowntech

### Project Requirements

This Kenaidan-led design-build project provides infrastructure modifications and accessibility upgrades at the Eglinton GO Station. The work ensures accessibility standards are met and provides an enhanced level of convenience for all GO Transit patrons.

Our work began by installing shoring and drilled piers along the platform for the tunnel, building, and canopy construction. New underground tunnels under a previous contract were extended, including interior finishing and decommissioning of the old tunnels.

We have constructed four tunnel access structures with elevators and stairwells to connect the east and west tunnels to the platform level. Several areas of the platforms were widened, and tactile walking surface indicators were installed along the platform edge to improve accessibility and safety. In 2023, work scope was added to rehabilitate the asphalt platforms and install new trackside precast curbs. Enabling works for electrification were also undertaken during the platform rehabilitation.

Site wayfinding and passenger pick-up and drop-off areas to improve traffic flow at the station were upgraded. Other work included an extensive site stormwater system, domestic cold water and fire lines, sanitary services, and an electrical transformer replacement.

When working at active train stations, we always look for innovative ways to build safely and efficiently while minimizing construction impacts on operators and passengers. During the initial design stages of the project, the team revisited plans to minimize the challenges of working on the active train platforms. Modular construction of the accessibility platform and prefabricating the north and south platform canopy structures were innovative solutions developed and executed by the team.

Currently, we are working on the northeast plaza area, which will serve as the principal access, installing signage and elevators, and testing permanent power and commissioning. Customers can enjoy the fully upgraded facility in early 2024.



## Dave Ramberg Retires

Following an impressive 28-year career with Kenaidan, Dave Ramberg has retired.

After completing his Construction Technology diploma at George Brown College,

he started working as an Estimator at Tru-Wall Group. He gained valuable experience as he transitioned through roles at Pigott Construction and as an Apprentice Carpenter with Hardrock Forming. His expertise continued to evolve, leading him to the position of Site Supervisor with Vanbots before becoming an integral part of Team Kenaidan.

Dave's first project with us was the Ontario Court of Justice facility in Hamilton, setting the tone for a series of successful endeavours. As a Site Supervisor, his construction knowledge and

leadership skills played a pivotal role in various projects, establishing him as a key field leader for larger assignments.

Noteworthy projects in Dave's career at Kenaidan include the Lakeview WWTP, Barrie Surface WTP and Low Lift Pumping Station, Duffin Creek WPCP, and South Fork WTP in British Columbia. Dave's involvement extended beyond project execution to significant contributions in pursuing and securing several large projects for the company.

Most recently, he was involved with the Ashbridges Bay Treatment Plant WAS Thickening Facility, working with Taylor Dorland, Project Manager. "Over the last two years, I've had the pleasure of working with and getting to know Dave on the TWAS project," said Taylor.

"If I had to describe Dave in one word it would be genuine. With Dave, what you see is what

you get, and he will give you the truth and straight facts every time. Dave was a mentor, friend, and confidant to the entire team. Looking back, it's easy to see that he genuinely cared for and enjoyed the people side of the business – arguably more than the building process."

Dave is known for his steady manner, extensive knowledge of water and wastewater, and dedication to developing younger team members. Throughout his tenure, he became an invaluable member of Team Kenaidan, working collaboratively with colleagues across the organization.

As he embarks on this well-deserved chapter of retirement, we express deep gratitude for his unwavering dedication and lasting contributions. To Dave and his wife Barbara, Team Kenaidan extends warm wishes for a fulfilling and enjoyable retirement.



Aidan Flatley

# Celebrating 50 Years of Team Kenaidan

## OUR MESSAGE

In 1974, Ken and I started a snow plowing business to help pay our university tuition and gradually took on small projects like landscaping, fencing, and building decks. This set the stage for the journey Kenaidan has been on for the past five decades.

As I look back on those early days, I see the roots of a company that has grown and flourished, yet our business philosophy hasn't changed – work hard, operate with integrity, and have fun.

The beginning was not without challenges, but we faced them head-on, turning obstacles into opportunities. Fueled by passion, determination, and a strong commitment to doing great work, Kenaidan began to take shape.

We knew early on that building a strong company requires investing in the right people. A culture of collaboration emerged, where every team member played a crucial role in shaping our identity. For this, I extend a heartfelt thank you to our dedicated Team Kenaidan employees, partners, clients, trades, and suppliers who have contributed to Kenaidan's success.

In 2011, a significant milestone marked our path as Obayashi became our parent company. This partnership has further strengthened our capabilities and presence in the Canadian market, allowing us to continue our legacy of excellence.

As we celebrate 50 years of achievements, let's also look forward to the exciting times ahead. The adventure continues, and I am excited to see where the next chapters take us.

## Recently Awarded

**Royal Avenue Pump Station Rehabilitation**

**GTAA T3 Parking Structural and Mechanical Work and Wayfinding Improvements**



August 1990



November 2002

## Milestone Moments: Team Kenaidan Newsletter

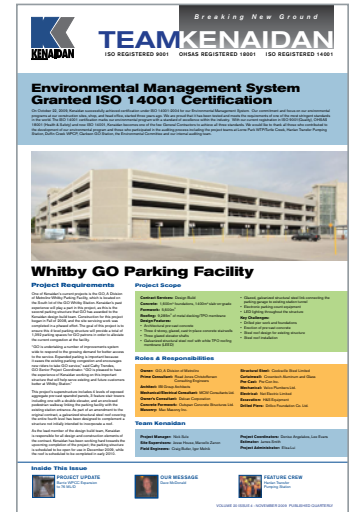
### POINT OF INTEREST

In the ever-evolving landscape of construction, communication has always been the cornerstone of success. Thirty-four years ago, Kenaidan embarked on a journey to foster lasting connections with our clients, partners, and employees through the creation of our Team Kenaidan newsletter.

Back in the early '90s, the construction industry was rapidly changing, with new technologies and methodologies reshaping the way projects were developed and shared. Recognizing the need for an informative platform, we launched our newsletter to bridge the communication gap and keep our stakeholders abreast of project updates, company developments, and the latest industry trends.

The newsletter became a vital tool for sharing insights, best practices, and success stories. It provides a space for us to showcase our expertise, highlight the achievements of our clients, and celebrate the collaborative efforts of our partners and employees.

Our commitment to transparency, accountability, and engagement has been the driving force behind the longevity of our newsletter. It is a testament to our dedication to nurturing strong relationships and ensuring everyone involved in our construction community feels connected and informed. As we commemorate our 50-year milestone, we reflect on the history of our newsletter, and we look forward to the continued growth of our industry relationships and the exciting developments that lie ahead.



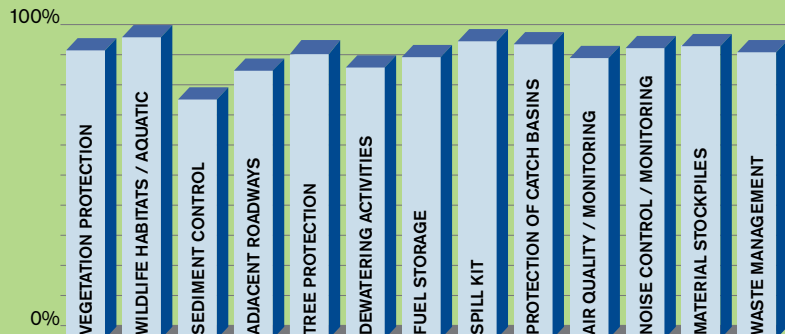
November 2009

## Environmental Update

BY DEREK BEHARRY

Environmental compliance results from internal and third-party inspections on our projects in 2023 are completed and summarized below by key measurement categories.

### Overall Compliance by Category

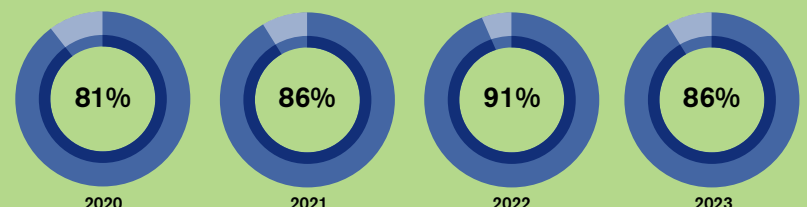


Overall, our environmental compliance shows positive performance on our projects. However, there are still areas for improvement that can be identified and captured in our increasing levels of environmental inspections, including weekly internal inspections by Kenaidan's environmental team, third-party inspections, and monthly client inspections. Our goal is to improve

by focusing on impactful opportunities and applying proactive measures. Environmental obligations continue to be more stringent each year, and with our clients, continuous improvement and compliance monitoring will be essential to a project's overall performance and success.

Waste management continues to be a key component of our environmental program and a performance goal which aligns with our clients. For over a decade, we diligently monitored our project waste diversion, always looking for improvements. In recent years, our clients have elevated waste diversion to a crucial environmental requirement, mandating a comprehensive plan outlining waste management goals and objectives. Additionally, we are now required to submit monthly tracking system reports as evidence of our compliance with these standards.

### Waste Management Diversion Rates





# Our Company, Our People

ROAMING PHOTOGRAPHER



Acer Almassraf and Christine Bonner recently participated in McMaster University's Heavy Construction Industry Night. This experience enabled them to engage with students, showcase our innovative projects, and discuss opportunities, including co-op, internship, and full-time roles at Kenaidan.



On February 14, our Shop team proudly presented their entry for the Why I Love Working at Kenaidan competition. This contest encouraged our office and job sites to share the reasons they enjoy being part of Team Kenaidan.



The Maple GO team garnered well-deserved recognition for their outstanding work, being honoured with the Environmental and Safety Awards during our 2023 holiday party.

Congratulations to our 2023 Leadership College Graduates, Kriselle Pereira, Julia Ferlisi, and Eliza Morra. This group is our 15th graduating class since the program started in 2005.



## Congratulations To

Dmytro Luzhanskyi who moved from our BC Crew into the role of Project Engineer  
Sherain Francis on her promotion to Accounts Payable, Team Lead  
Sean Taghipoor on his promotion to Site Supervisor  
Jakub Buchowiecki on his promotion to Site Supervisor  
Eliza Morra on her promotion to Site Supervisor  
Scott Brazeau on his promotion to Construction Manager

## Kenaidan Welcomes

Nathan Snippe, Project Engineer  
Ali Esmailbeygi, IMS Coordinator  
Yasmeen Mian, Project Administrator  
Sandeep Pandher, Project Manager  
Prerak Kachhiya Patel, QC Coordinator  
Yassin Awa, Financial Cost Accountant  
Rebecca Wakoli, Environmental Advisor

## Corporate Donations

Kenaidan recently made donations to:  
• York University Foundation

## Corporate Sponsorships

Kenaidan recently sponsored:  
• Oakville Titans Football  
• Ontario Professional Engineers Foundation for Education

## Charitable Matching Program

Kenaidan has recently matched employee donations to the following charities:  
• MSF Canada

## Contributing Editors:

Taylor Dorland, Drew Murray, Marisa Nardini, Andrea Howson, Julie Dorie



## Kenaidan's Mission Statement:

- To provide responsible, quality construction services utilizing superior innovation and expertise.
- To develop and maintain long-term relationships with satisfied clients and suppliers.
- To create a safe, challenging and enjoyable work environment where employees share in corporate growth and success.
- To build on a sound financial base where future development is promoted over short-term gain.



## Kenaidan Contracting Ltd.

7080 Derrycrest Drive,  
Mississauga, Ontario, Canada L5W 0G5  
Telephone 905.670.2660

Kenaidan is a registered trademark of Kenaidan Contracting Ltd.

## Kenaidan Contracting Ltd.

4311 Viking Way, Unit 240,  
Richmond, British Columbia, Canada V6V 2K9  
Telephone 604.270.7670

[kenaidan.com](http://kenaidan.com)

