



Ontario, Canada



6 Months



15 samples/week



3 sampling areas

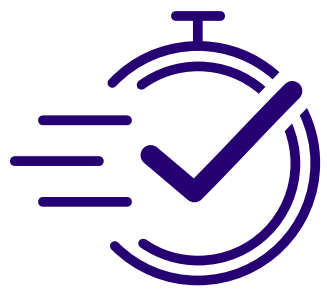


4 pathogen targets

Greater Toronto Airport Authority (GTAA) Wastewater Surveillance

Kraken Sense was one of three biotech companies selected by **The National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)** and the **GTAA** to test the wastewater at Toronto Pearson Airport for **three SARS-CoV-2 variants and for Monkeypox**. Fifteen samples were autonomously taken and tested per week between October 2022 to March 2023 via the KRAKEN™. Biosurveillance occurred at three separate sites of the airport: Terminal 1, Terminal 2, and the Triturator. During the 6-month program, the team noticed a need to pivot to another target pathogen based on sequencing data. Kraken Sense was able to **develop a new sensor** and implement the change **within 6 weeks**.

The KRAKEN™ device employed **automated real-time PCR technology** to monitor liquid-based samples for bacteria and viruses, enabling early detection and continuous monitoring of pathogen surges. This innovative approach allowed for non-intrusive testing that did not disrupt passenger traffic, contributing to public health efforts and ensuring airport safety.



Rapid Results

Obtained results faster than any other method without the need of human interference



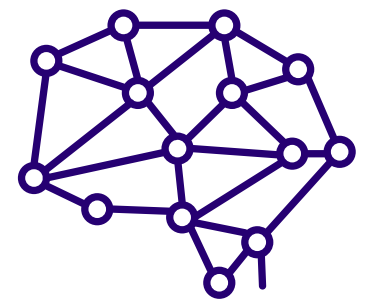
Real-Time Alerts

Received alerts remotely via an IoT-enabled mobile app



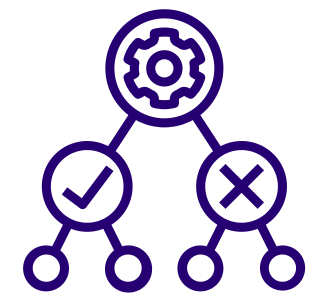
Improved Workflow

Replaced time-consuming individual testing with batch testing of wastewater



Networked Sampling Sites

Monitored several sampling sites in a single dashboard



Informed Decisions

Leveraged quantitative data to inform decisions and put mitigants in place when needed

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[KRAKEN™'s] ability to provide **rapid, on-site, automated pathogen testing** has been invaluable to provide us with an **early warning** to allow us to put mitigants in place for the protection of our passengers and our employees. Its ability to be **rapidly deployed**, its **user-friendliness** has allowed our employees to be able to use this equipment quite easily.

We are very grateful to Kraken Sense for their ability to work with us, to **customize the system** to meet the needs of Toronto Pearson [Airport]; and I highly recommend Kraken Sense to any organization out there that is looking to have **on-site pathogen testing** available.

Dwayne Macintosh
Director of Safety, Security, & Health
Greater Toronto Airport Authority





Our real-time monitoring technology offers autonomous pathogen detection to help you get the results you need, immediately.

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