



City Representatives Plamen Nikolov and Ian Routledge pose with one of the 12 pumps slated for Hamilton's Woodward Facility.



Plamen Nikolov taking a well deserved breather.

MPS - Pump Testing

Located in Halle, Germany, KSB is the supplier/manufacturer of the twelve pumps to be installed at the new Woodward Main Pumping Station. As a requirement of the contract, witnesses from the purchaser are obligated to observe in-person, the manufacturers testing before the products are shipped. In May of this year, four City staff along with a representative from the contractor and the consultant travelled to Halle. Six of the twelve pumps were tested for performance guarantees. Over a six day period, one pump was tested daily. Each test lasted four hours and the remainder of the day was spent setting up for the next test. Throughout testing, no issues were identified. One discovery made through this process was that the pumps are more efficient than expected. The pumps tested demonstrated they exceeded the efficiency levels set out in the contract's Specifications. Thanks to this, it is estimated that over the next 20 years the city will see ~\$60,000/year in energy savings.

The pumps, now delivered, began their journey from Halle, Germany on August 13th, travelled across the Atlantic by boat and arrived to Canada on September 2nd, making their way to Hamilton for delivery on September 11th. See the full journey below.

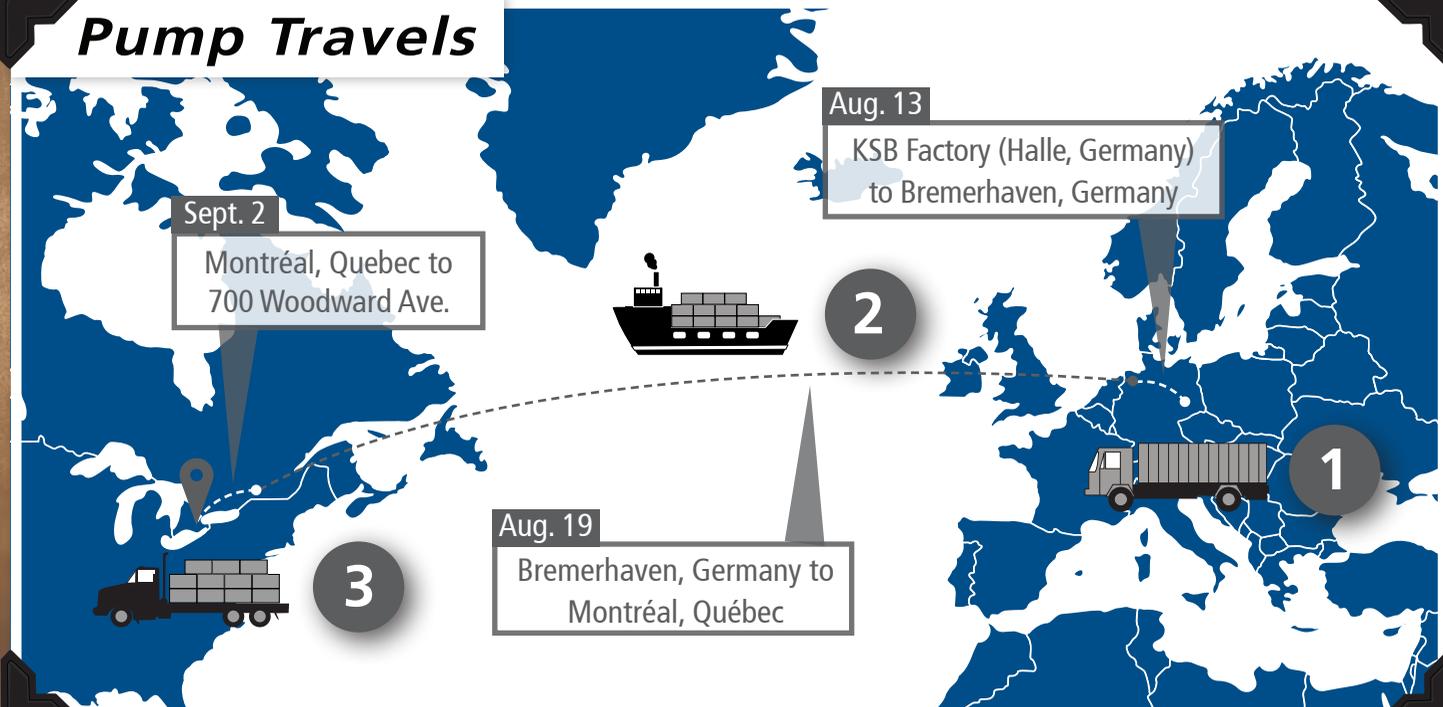


One of twelve - 700 horsepower motors. Manufactured separately in Taipei Taiwan.



Test facility at KSB in Halle, Germany

Pump Travels



MAIN WASTEWATER PUMP STATION

4,500 hours worked

1,000 tonnes of rebar

11,000 cubic metres of concrete



1,350 trucks

Progress to Date



Construction: May 2017 - May 2021

ELECTRICAL POWER CENTRE

8.9 KM

of new underground piping (chlorine, storm, watermain)

170 tonnes of structural steel

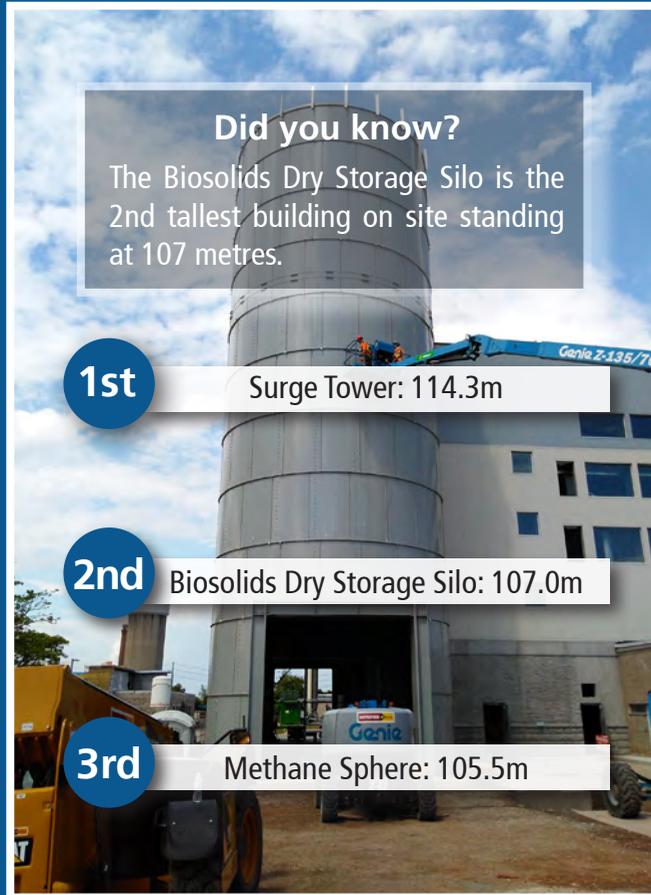
3.7 KM of new electrical duct bank installed

Progress to Date



Construction: Oct.2017-Jun.2021

Biosolids Management



Did you know?

The Biosolids Dry Storage Silo is the 2nd tallest building on site standing at 107 metres.

1st

Surge Tower: 114.3m

2nd

Biosolids Dry Storage Silo: 107.0m

3rd

Methane Sphere: 105.5m

Construction of the Dry Storage Silo has been completed, with installation of remaining process and mechanical equipment underway. Installation of the elevator is finishing up, and preparation for the demolition of the remaining portion of the old facility is taking place. Commissioning of the new facility is set to start in October 2019.

Progress to Date



Construction: Jun.2017-Apr.2020

Tertiary Treatment

Progress to Date



Construction: May 2019 - Dec. 2021

With the contractor – North American Construction fully mobilized, construction of the new Tertiary Treatment Building and South Plant expansion is in full swing. The current works include the excavation for the Tertiary Treatment Building and demolition of existing portions of the south secondary treatment plant.

In order to facilitate the expansion of the South Plant Aeration tanks and clarifiers, it was determined that one half of the south plant process would need to be taken out of service for period of up to 36 months. During this time, two stages of construction would be undertaken to safely demolish existing tank structures, construct new enlarged tanks and perform the required commissioning activities on each of the two stages of construction.

As a result and consequence of the temporary loss of treatment capacity at the Woodward WWTP, through half of the south plant being out of service, mutual consent was obtained from the MECP for the adoption of a Peak Flow Control strategy for the two stages of construction operations. Over the course of a year, discussions were held with MECP to obtain their approval to lower the treatment capacity of the plant from 614 MLD to 511 MLD in the first phase and subsequently 562 MLD in the second phase of construction for the south plant.

Thanks to the hard work and cooperation of everyone involved, an agreement was reached in early 2019, with the first stage of construction officially beginning on May 27th, 2019. The second stage is expected to commence in November, 2020.



North Plant remains **ONLINE** during construction

South Plant Construction
 Stage 1 → **OFFLINE** May 2019 - Nov 2020
 Stage 2 → **OFFLINE** Nov 2020 - Dec 2021