

## Big Walnut Outfall Augmentation Sewer (BWOAS) Part 2 - Breakthrough



# CONGRATULATIONS !

The LOVAT RME167SE Series 21500 TBM, owned by the McNally – Kiewit Joint Venture, has broken through on Part 2 of the Big Walnut Outfall Augmentation Sewer (BWOAS), located in Columbus, Ohio.

The 4.2 meter diameter Mixed Face, Earth Pressure Balance TBM attained daily production rates of up to 24 rings erected during excavation of the 4,084 meter long tunnel. Weekly performance of up to 79 rings was achieved, with best mining and ring build times of 8 minutes and 17 minutes, respectively.

Geological conditions consisted primarily of two types of soil deposits, glacial-till and glacio-fluvial / outwash materials, with uniform fine sands also encountered. Gravel, cobbles, and boulders were also present during portions of the alignment, located below the groundwater table for its entire duration. As the tunnels were classified “potentially gassy”, the TBM was designed in compliance with regulations for operation in a Class I, Division II hazardous location.