



# Vacuum Excavation

QRI provides multiple Vacuum Excavation (VacEx) services customized to fit project needs. The **Vacmasters System** can be used stand alone or in conjunction with geophysical technologies including GPR and EM utility locating systems. The Vacmasters System has both **air** and **hydro excavation** capabilities, allowing for a wider range of applications.

## BOREHOLE CLEARANCES

VacEx is used to verify that no utilities are present prior to geotechnical and environmental drilling, and prior to installation of vertical utilities/poles. Confirmatory pothole patterns and depths can be developed per client specifications to ensure the borehole is clear of subsurface utilities.

## HYDRO EXCAVATION

A non-destructive method of digging, utilizing pressurized water and a vacuum to quickly and safely expose underground utilities. This safe and efficient excavation method can also be used for installation of subsurface piping and utilities.

## SUE QUALITY LEVEL A LOCATES

VacEx exposes utilities, allowing precise data collection for mapping of utility data, including horizontal and vertical measurements, size, condition, material and other characteristics of underground features.



## SPILL RESPONSE AND REMEDIATION

QRI's response team is ready to mobilize 24 hours a day to help you with spill emergencies. Our VacEx systems can remediate spills efficiently and effectively, allowing for safe containment and disposal of contaminants.

## TRENCHING

VacEx is performed along a pre-designed line, installing a trench to reveal potential subsurface utilities. This method of excavation allows for safe installation of building foundations, subsurface pipelines and utilities.

