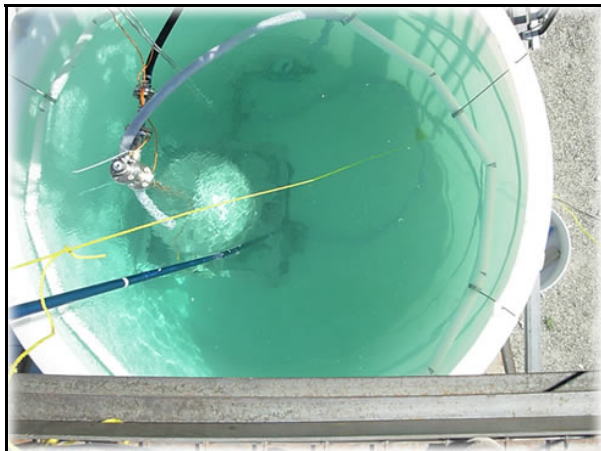


K Basins Sludge Vacuum Testing

MCE received a sole source contract from AEA Technology (AEAT) for an engineering development and analysis project intended to demonstrate and verify system models of AEAT's Fluidic Transfer System. The test objectives were to:

- Confirm the system can transfer ¼-inch pieces of tungsten and flyash from a sludge tray to a collection vessel.
- Evaluate the optimum operating pressure and drive cycle for the system.
- Confirm the system does not discharge through the vacuum hose while the flow is reversed from the charge vessel to the collection vessel.

Evaluate the ergonomics of the vacuum pole for the operator.



The test apparatus fabrication, component assembly, and test execution were performed at the MCE Fabrication Shop.

The test configuration, including the assay system piping and hose run lengths and elevations, was designed to mimic in-plant conditions to the extent possible.



**Client: NuVision Engineering (AEAT)
Richland, WA**