

Tuttle Creek Water Injection Dredge Build Milestone

The Tuttle Creek Water Injection Dredging Demonstration dredge is nearly assembled at the Custom Dredge Works facility in Topeka Kansas.

Water injection dredging has never been done before in a reservoir. The Tuttle Creek Lake pilot project requires custom-built equipment and will be conducted in three separate seasonal dredging demonstrations. The initial demonstration is scheduled for fall 2025 and subsequent demonstrations are planned for spring and summer 2026. The NWK commander and project personnel visited the Custom Dredge Works facility to see the construction progress on July 30, 2025.



Figure 2. (Top Left) The injection manifold is 38' 11/16" ID edge-edge length with 78x total nozzles, each nozzle is adjustable for either 2" or 3 1/16" ID with 6" center to center jet spacing, also pictured is the push knee frame. (Top Right) The discharge pipe ladders are 100' - 24" steel pipe, with hoisting winches and gantry assemblies. (Bottom Left) Custom – Main Hull Sections instead of section barges are to support the pump set, parking spud well, and pump intake. (Bottom Right) Turning gland in the foreground and fuel cubes in background.

Link: <https://www.nwk.usace.army.mil/Media/Release-View/Article/4251646/groundbreaking-water-injection-dredging-pilot-project-shifts-start-date-to-fall/>

Funding: Innovative Sediment Management Project (FY24-26), Dredging Operations and Environmental Research (FY19-23)