

Phosphorus Removal Modifications to Battery D, OWRP

Project Number	21-091-3P
Service Area	North
Location	O'Brien WRP
Engineering Consultant	AECOM
Engineering Contractor	To be determined
Estimated Construction Cost	\$17,513,900
Contract Award Date	July 2023
Substantial Completion Date	Jan 2025



Project Description	This project will include pumps (including a new pump building to house return activated sludge pumps), piping, mixers, and baffles to support side stream enhanced biological phosphorus removal in Battery D at the O'Brien WRP.
Project Justification	Per the compliance schedule in the National Pollutant Discharge Elimination System permit, the O'Brien WRP must install biological phosphorus removal in all batteries by July 31, 2025 to meet a new total phosphorus effluent limit beginning August 1, 2027. Side stream enhanced biological phosphorus removal through return activated sludge fermentation will be used to meet these new limits. The fermentation of return activated sludge in this process encourages the growth of phosphorus accumulating organisms, stabilizes phosphorus removal, and allows for greater phosphorus removal under less favorable influent conditions.
Project Status	Design