

Water Reclamation System Modeling with AFT Fathom™

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With 15,000 professionals in 200 offices, CH2M Hill is a global leader in full service engineering, construction and operations, differentiated by their strong commitment to partner with clients to achieve their full strategic and operational agendas.

As engineers, planners, scientists, and technical professionals, CH2M Hill takes advantage of opportunities to redesign the blueprint for how systems are created and operated. This is exemplified by their adoption of the latest technologies to design piping and pumping systems in a wide range of applications, such as the water reclamation plant for Singapore's water system project.

To meet the demands of its growing population, Singapore's Public Utilities Board contract with CH2M Hill to design a water reclamation system to produce potable water (NEWater) from reclaimed secondary effluent. With CH2M Hill as its consultant, Singapore PUB also built a NEWater visitor center to foster community understanding of water recycling and technology.

A critical system in the recycling project was the water distribution system, distributing water to various facilities including the liquid module, solids building, digesters and influent pump station.

A key design technology utilized by Sreenivas Garikipati, a Principal Engineer in CH2M Hill's New Delhi office, was AFT Fathom, used to develop a comprehensive model of the system. When asked to identify the benefits and advantages of modeling the system in AFT Fathom, Sreenivas explained; "It is very difficult to explain all the benefits/advantages" because there are so many, adding that AFT Fathom was; "Easy to learn, easy to apply, produced great results within seconds."



