



INSTALL TIME

7 MONTHS

HIGHLIGHTS

Project History :

Greenfield (2004), Greenfield (2024)

Wastewater Type(s) :

Municipal

Application(s) :

Residential

Discharge Type(s) :

Surface Water Discharge

DESCRIPTION

In 2004, our team delivered one of the first flat-plate MBR systems in the U.S. at McKinney Roughs, a compact, stainless-steel MPAC package plant rated for 25,000 GPD.

Twenty years later, the site needed a longer-term solution at far greater scale. NXT|MBR delivered it: a 250,000 GPD system, 10 times the original capacity, using membranes three times more efficient than the 2004 technology, built on CROM concrete tankage engineered for a 50+ year service life.

McKinney Roughs also marks how far MBR has come as a technology. Once chosen mainly for its small footprint and high effluent quality, MBR now competes on total cost of ownership. The 250,000 GPD system was awarded through a competitive bid and reportedly 30% below alternative technologies. The site can accommodate expansion up to 750,000 GPD as demand grows.

About the M|MBR team

As an experienced - and engagingly impartial and self-effacing - practitioner in the field of MBR technology, Dennis seems to know heaps more about the subject than most of the senior academics I've met over the course of the past 25 years.

Simon Judd

2024 PROJECT OVERVIEW

Project Category : Modular System

Project Type : Greenfield

Scope : Turnkey

Installed Membrane : BIO-CEL L+

(Polymeric, Flat Sheet)

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Results are site-specific and not a guarantee of performance; contract documents govern. Install time refers to the membrane changeout. Project history may include work by M|MBR team members before M|MBR Systems LLC was formed. Testimonials reflect individual views at the time given. Third-party product names are trademarks of their owners, used for identification only; no affiliation or endorsement is implied.