



## PROJECT HIGHLIGHTS

- Commissioned : December 2017
- Domestic WW & MBR Technology Replacement
- Permit(s): Discharge, Surface Water
- TN/TP/Turbidity: 8/na/0.09
- MMF Capacity: 0.13 MGD
- 1 FTE (Full-Time Employees)



*“Ovivo upgrade with OV technology provides Stony Point the ease to expand within the same footprint and giving the plant the ability to efficiently handle a range of flow and loading conditions”*

## PROJECT OVERVIEW

**System Type(s):** Ovivo<sup>®</sup> MBR Replacement, WaterExpert

**Previous Facility Type:** Green Field, Enviroquip MPAC with Kubota Membranes

**Owner:** City of Bastrop

**Engineer:** Aqua Water Supply Corp

**Contractor:** Mind Water

**Operations:** Pueblo of Santa Ana

**Delivery Method:** Pre-Selection, Progressive DB

**Time To Build:** 6 weeks

# DESCRIPTION

Not sure we should leave previous description, is our plant so we should take credit and leave it will show The Client trust in continue business with Ovivo:

In 2007, in order to reduce engineering and construction time, a 125,000 gpd MPAC modular Ovivo MBR with concrete tanks was selected. It contains a three process design with anoxic, aeration, and membrane zones. Beyond the small footprint and consistently good effluent quality, the MBR was selected for its ease of operation and limited operator input, as it is located in a remote location. - 2007

After 10 years of operation, the City of Stony Point in Western Bastrop County began to plan an expansion to accommodate population growth in the area. As a result of a positive partnership and support through the years, the City selected Ovivo to upgrade the existing facility. Replacement of the existing membranes with OV technology, provides Stony Point the ease to expand within the same footprint, providing an additional 95% of active surface area giving the plant a lot more latitude in dealing with occasional higher peak flows and/or loadings. In addition to the flexibility to easily upgrade to a higher flow rate by adding a third membrane unit and further meeting the anticipated growth in the area. The plant will have installed Ovivo's software technology WaterExpert, which will allow the customer the ability to track the plant's assets, retain key employee knowledge, and manage maintenance schedules and access expert support all from the convenience of the cloud. Upgrade with OV technology together with Water Expert will provide the Stony Point plant long term sustainability and ease of operation.

**OVIVOMBR**  
ONE SYSTEM, MANY SOLUTIONS



## PLANT DESIGN INFORMATION

**Fine Screen Type :** Drum Screen

**Aperture or Slot Size :** 2 mm

**Supplemental Aeration Technology :** Fine Bubble Disks

**MBR Blower Type :** Positive Displacement

**Solids Management Data :** Hauling

**SCADA System :** Wonderware

**Disinfection Method :** Chlorine

**# Process Stages :** 3

## MBR (MEMBRANE ZONE) DESIGN

**Filtration Mode:** Pumped

**# of Reactors:** 2

**Submerged Membrane Unit (SMU):** OV480

**# SMU:** 4

**Design Flux (MMF):** 6.3gfd

**Minimum Temperature:** 17°C

**Peak Factor:** 2.0

**# of Maintenance Cleans:** 4