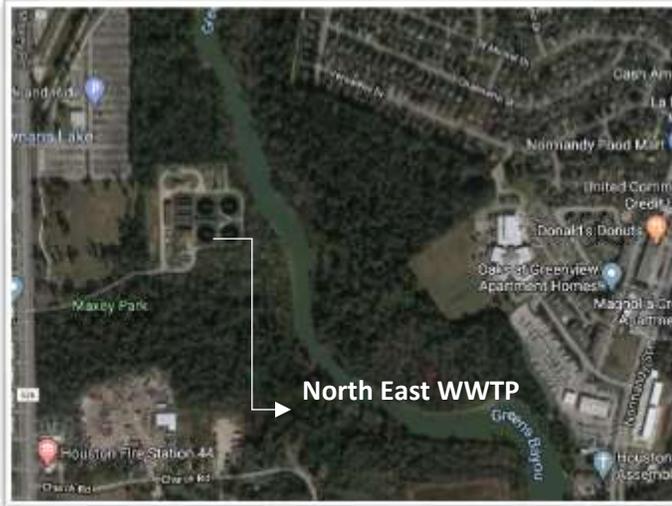


**CASE STUDY REF: 019**

**NORTH EAST WWTP IMPROVEMENTS – PIVOT GATE**



**Location**

North East Waste Water Treatment Plant is located near Green Bayou in Houston City, Texas. Houston city has 39 wastewater treatment plants that collect and treat an average of 250 million gallons of wastewater per day generated by residential, commercial, and industrial customers, servicing an area of approximately 640 square miles, and a population of over 2.1 million people. Over 6,100 miles of sewer lines and 383 lift stations comprise Houston’s sanitary sewer collection system. The sanitary sewer collection system moves wastewater to the local treatment plants where it can be treated and safely returned to bayous and lakes.



Pivot gate under testing at plant

**Purpose of project**

As part of upgradation, Department of Public works and Engineering has decided to renovate and rehabilitate important structure of waste water treatment plant.

Rodney Hunt was awarded with restoration work of special valves wherein Pivot gates of size 4’ X 8’ (1219mm X 2438mm) is one of them. Special feature of Pivot gate is it rotates in its vertical center axis, so gate works with nominal head room above.

**Function and features of Rodney Hunt supplied Pivot gate**

Pivot gates is installed at RAS channel of aeration basin to restrict flow in the channel for the maintenance of other equipment installed in channel.

**Features of Rodney Hunt supplied Pivot gate**

Gate is designed to achieve 0.1 gallon per minute per foot of seating perimeter at design water head. Gate is designed in such way sealing system can be adjusted by giving additional compression at bottom seal in case of excessive wear tear in sealing face. This will ensure proper sealing of gate during operation.

Gate shaft bushes on which whole gates will turn is equipped with self-lubricating bronze bushes. This is will protect bushes from corrosion and minimize maintenance for long term underwater application.

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