



Collier County | Florida

# Rural Lands Stewardship Area Community Workshop Water Resources

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Public Utilities Department  
Water Division

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Rural Lands Stewardship Area

# Public Utilities Department – Water Division

- ◆ Provides Potable Water Service to over 73,400 Service Connections
- ◆ 2 Water Treatment Plants;  
4 Water Storage and  
Re-pumping Stations;  
3 Wellfields

# Water Treatment and Distribution

- ◆ 118 Full Time Employees
- ◆ \$29.9 Million Annual Operations & Maintenance Budget
- ◆ FY19 Budget includes \$42.9 Million for the Public Utilities Capital Improvement Program

# System Statistics

- ◆ 240 square mile Service Area
- ◆ 800 miles Water Main
- ◆ 8.942 BG Distribution System Demand
- ◆ 24.5 MGD Average Day Demand
- ◆ 32.9 MG Maximum Day Demand

# Raw Water Source

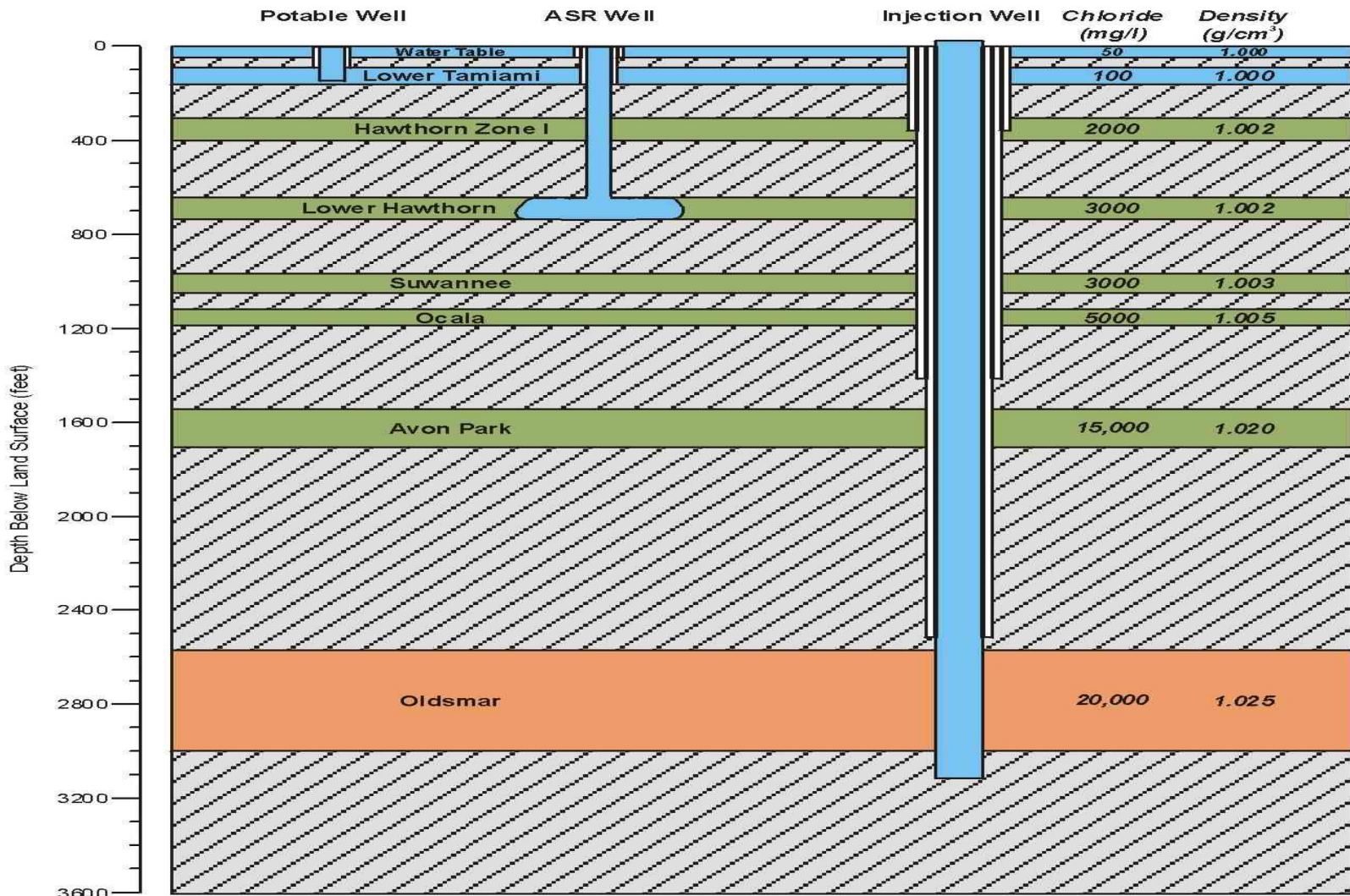
## ◆ Fresh Water

- Tamiami Aquifer – Lower Zone
- 36 wells
- 60 to 110 feet below ground level
- ~30 MGD capacity

## ◆ Brackish Water

- Hawthorn Aquifer – Zone 1 and Lower Zone
- 65 wells
- 300 to 900 feet below ground level
- ~60 MGD capacity

# COLLIER COUNTY GEOLOGIC CROSS SECTION



- Confining Beds
- Brackish Water Aquifer
- Freshwater Aquifer
- Saline Water Aquifer

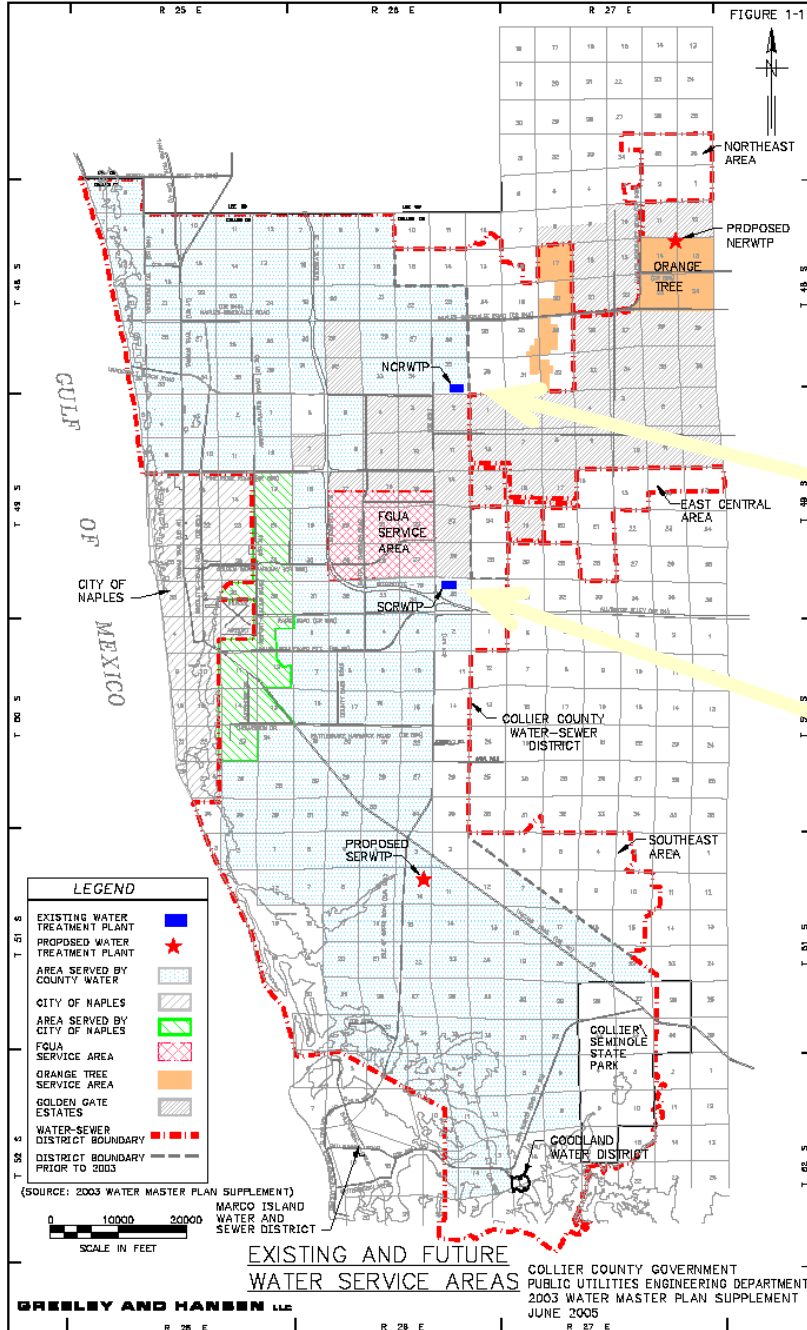


FIGURE 1-1

# Facilities Locations

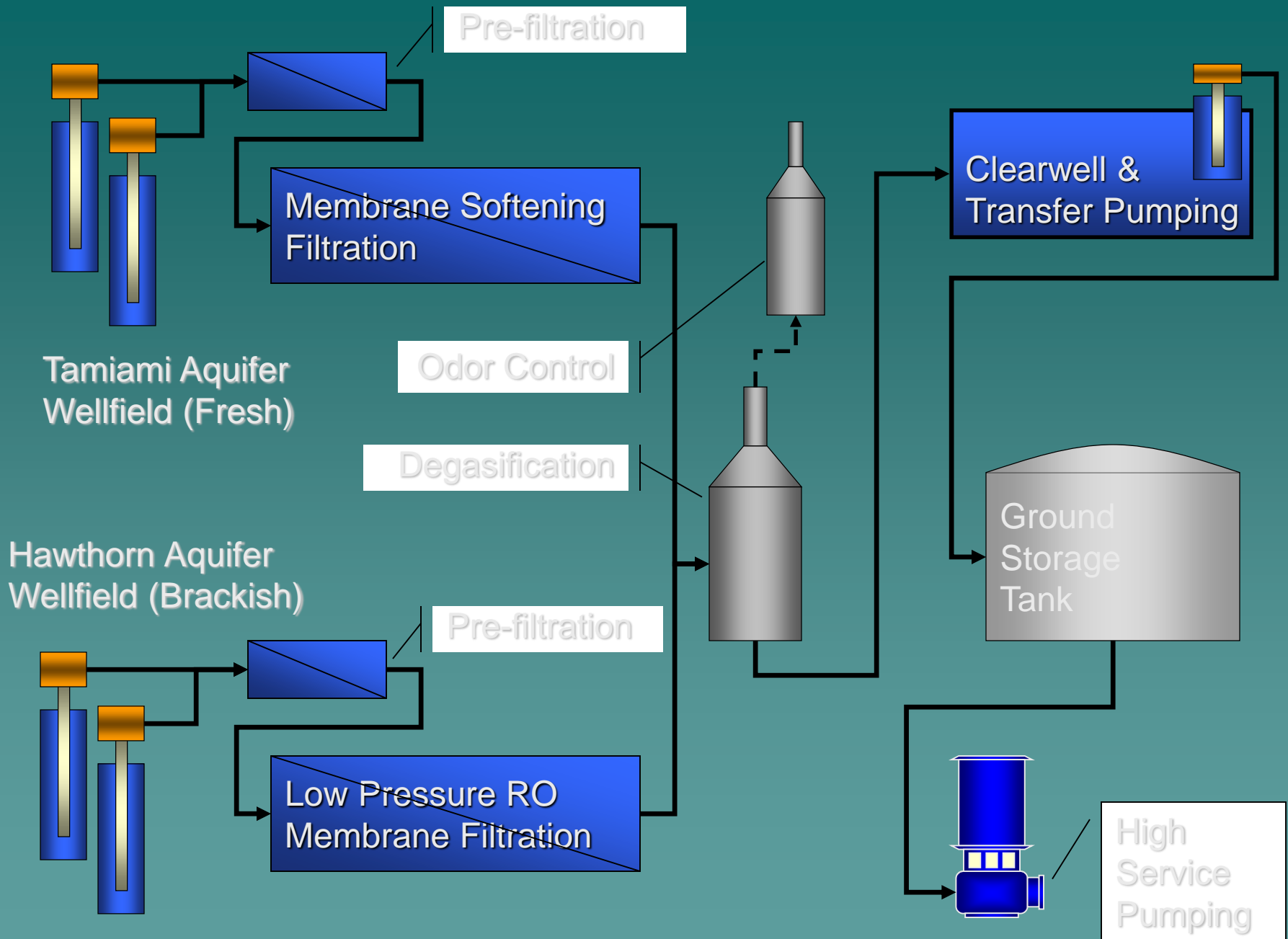
NCRWTP

SCRWTP

# North County Regional Water Treatment Plant

- ◆ Constructed in 1993
  - 12 MGD Constructed Capacity
  - Membrane Softening Water Treatment Process
- ◆ Expanded in 1999
  - 8 MGD Constructed Capacity
  - Reverse Osmosis Water Treatment Process
- ◆ FY18 Average Production 12 MGD

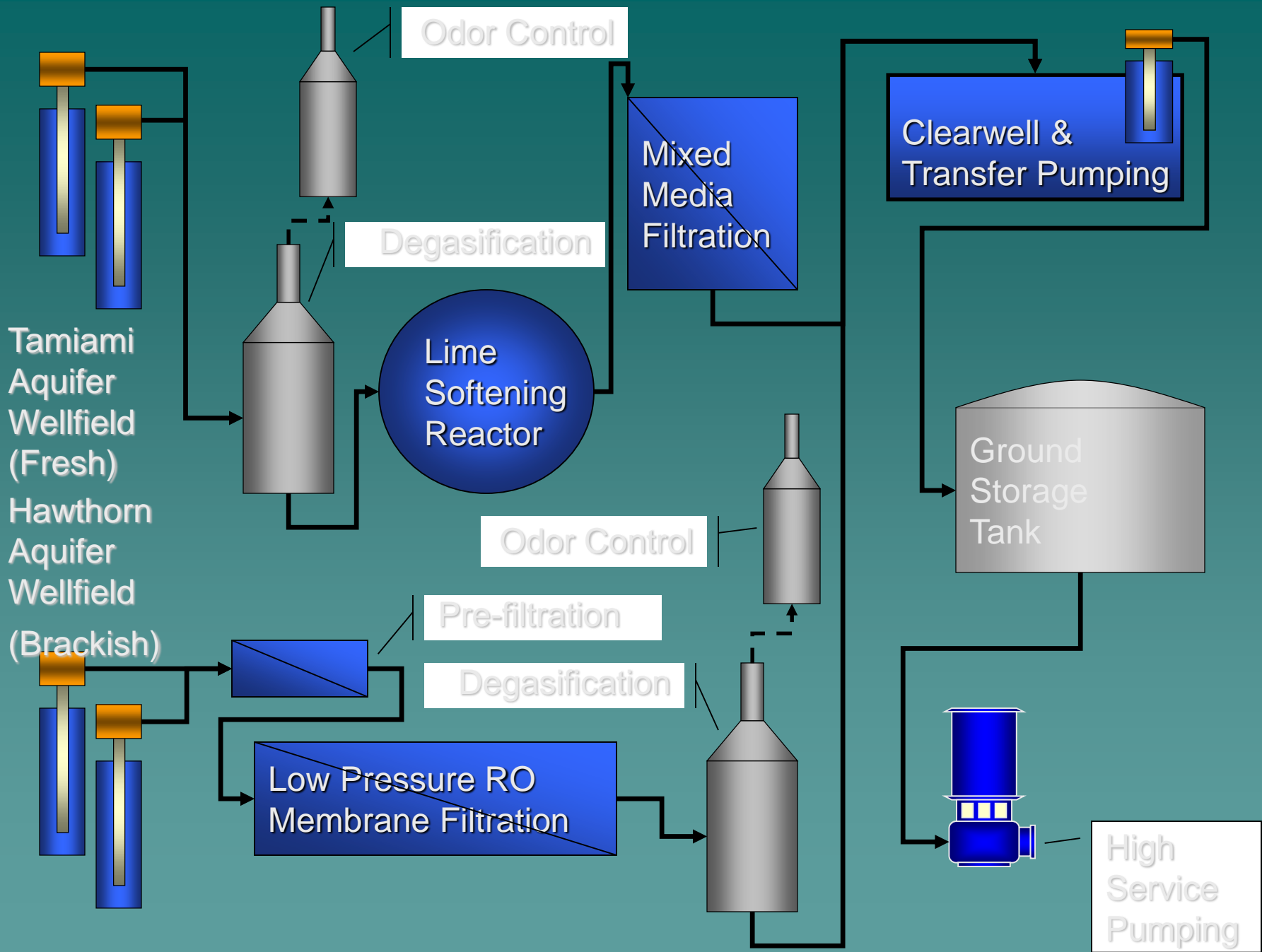






# South County Regional Water Treatment Plant

- ◆ Constructed in 1984
  - 4 MGD Constructed Capacity
  - Lime Softening Water Treatment Process
- ◆ Expanded in 1988
  - 8 MGD; Total 12 MGD Constructed Capacity
- ◆ Expanded in 2004
  - 8 MGD Constructed Capacity
  - Reverse Osmosis Water Treatment Process
- ◆ Expanded in 2009
  - 12 MGD Constructed Capacity
  - Reverse Osmosis Water Treatment Process
- ◆ FY18 Average Production 12.5 MGD





# Wastewater Division

## Irrigation Quality (IQ) Water

Highly treated wastewater is returned for beneficial reuse as Irrigation Quality water to help offset demands on our valuable potable water resources.

Approximately **5 billion gallons of IQ Water** is used for irrigation annually; a leader in the state.

- ❖ golf courses
- ❖ county parks
- ❖ residential communities (Pelican Bay)
- ❖ roadway medians

