

List of Acronyms and Abbreviations

Following is a list of acronyms and abbreviations used in this report. While not all-inclusive, this list should clarify the more prevalent usages in this text.

AWWA	American Water Works Association: A professional organization dedicated to the area of public water supply and distribution.
bls	Below land surface: a relative term used to describe the measuring point for well depths or depths of geologic formations underground. The use of below land surface eliminates the need to reference actual ground elevations, as they may be unknown or not available.
Cl ⁻	Chloride: an ion commonly used as a indicator of salinity. Higher chloride concentrations mean more brackish or saline water. As an example, the limit of drinking water is typically considered to be 250 mg/L chloride while salt water typically has chloride concentrations of over 10,000 mg/L.
DOH	Pinellas County Department of Health
FAC	Florida Administrative Code: The body of rules developed from state statutes (FS) for the protection of the environment.
FDEP	The Florida Department of Environmental Protection: the state regulatory authority on matters of the environment.
GIS	Geographic Information System: a system that relates database information with map features.
gpm	Gallons per minute: a measure of flow rate.
MCL	Maximum Contaminant Limit: A regulatory term defining the maximum concentration of a parameter.
MFL	Minimum Flows and Levels: A program utilized by the SWFWMD to manage water use within its District. The concept is to set as a part of permit conditions certain minimum flows and levels of surface water bodies or groundwater aquifers to protect water systems and the environment.
mgd	Million gallons per day: another term for flow rate. 1 mgd = 694 gpm.
mg/L	Milligrams per liter: a unit of concentration. In this report, mg/L is used as a gauge of salinity, defining the concentration of the chloride ion.
O&M	Operations and Maintenance: a component of cost considered along with capital costs in the determination of the total cost of producing water. O&M includes equipment, supplies, materials, electricity, professional services, etc. as part of maintaining and operating a utility.
PBS&J	Post, Buckley, Schuh & Jernigan: Engineering Consultants
PCU	Pinellas County Utilities: the City's primary wholesale water supplier.
RO	Reverse Osmosis: a type of treatment commonly used to remove salinity or mineral ions from water for purposes of producing finished water. Reverse osmosis is essentially a separation process that forces water under a driving pressure through a semi-permeable membrane to purify the water. The disposal

of the concentrate left “behind” the membrane is often a challenge in the implementation of an RO process.

SAS	Surficial Aquifer System: a term to describe the group of shallowest water producing layers in the area
SWFWMD	Southwest Florida Water Management District: a regional regulatory authority empowered by state law on matters related to water management, including surface water, groundwater, wetlands, and flood protection.
TBW	Tampa Bay Water: The region’s water supplier. TBW supplies Pinellas County Utilities with wholesale water. PCU in turn provides the City with wholesale water.
TDS	Total Dissolved Solids: TDS is the sum of all (volatile and non-volatile) dissolved solids, including the salinity parameters in water. TDS is another term often used to express salinity.
TN	Total Nitrogen
TP	Total Phosphorus
USDW	Underground Source of Drinking Water: a term used by the USEPA and the FDEP, often in the regulation of underground injection, in defining the limit of water potentially used as a source of drinking water – defined as <10,000 mg/L TDS.
USEPA	United States Environmental Protection Agency: The federal agency regulating matters of the environment.
USGS	United States Geological Survey: a federal department for the research of a diverse array of geologic and earth science issues. The USGS performed a study of the Anclote River utilized for this report.
WTP	Water Treatment Plant
\$/1000 gal	Dollars per 1,000 gallons: A unit of water cost commonly used in financial analysis of water supply options.