



REVERSE OSMOSIS (RO) WATER TREATMENT PLANT SUPPLY WELL

Priority Project –

New Raw Water Supply Well

- City's current water use permit includes the proposed construction of a new raw water supply well
- Proposed depth of the new well drilled to 320 feet
- The Floridan Aquifer is determined to be a viable and cost effective water source

Scope of Services

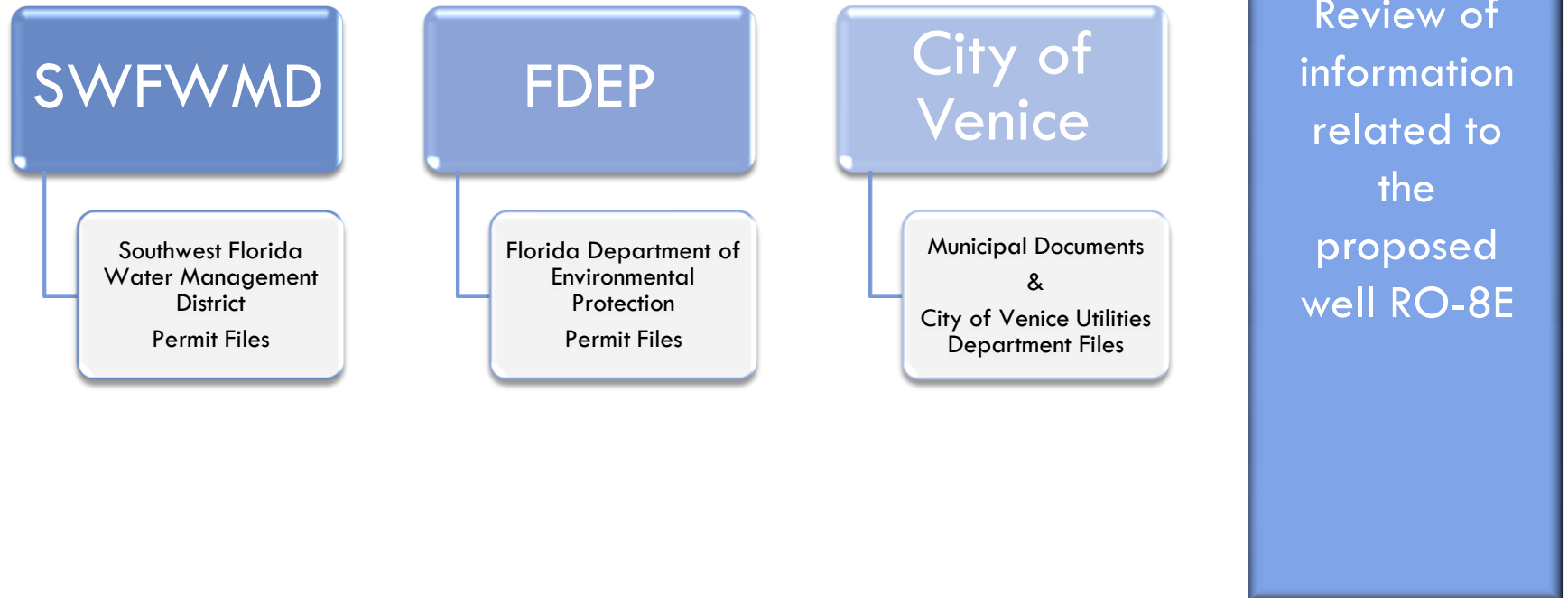
Data Collection

Well Site GIS Analysis

Preliminary Design

Evaluation of the Floridan Aquifer

Data Collection – Sources & Review



Well Site Analysis Using: Geographic Information System (GIS) Technology

GIS Analysis includes:

- ❑ Land Use Status
- ❑ Zoning Parameters
- ❑ Wellhead Protection Zones
- ❑ Utilities
- ❑ Wetland and Conservation Areas
- ❑ Water Use Permit Criteria and
- ❑ Ownership Information

Includes up to
six sites
identified by
the City of
Venice

Consultant will
compare cost
estimates
between sites

Preliminary Design with Cost Estimates

Preliminary Design

- The well & discharge piping
- Site procurement & site work
- Electrical & instrumentation work
- Raw water main connection

Cost Estimates

- Cost estimates on three of the six site locations identified by the city
- Estimate includes all improvements required to bring well online

Evaluation of Floridan Aquifer

Consultant to assess feasibility of Floridan Aquifer as a water supply source from these perspectives:

Technical

- Raw Water quality & quantity
- Permeate Recovery

Permitting

- SWFWMD
- FDEP

Time and Cost

