

Improvements to the SWFWMD Groundwater Nutrient Monitoring Network in the Rainbow Springs Basin

Background: groundwater-quality monitoring network proposed in 2005

targeting Upper Floridan aquifer in 1st magnitude spring basins

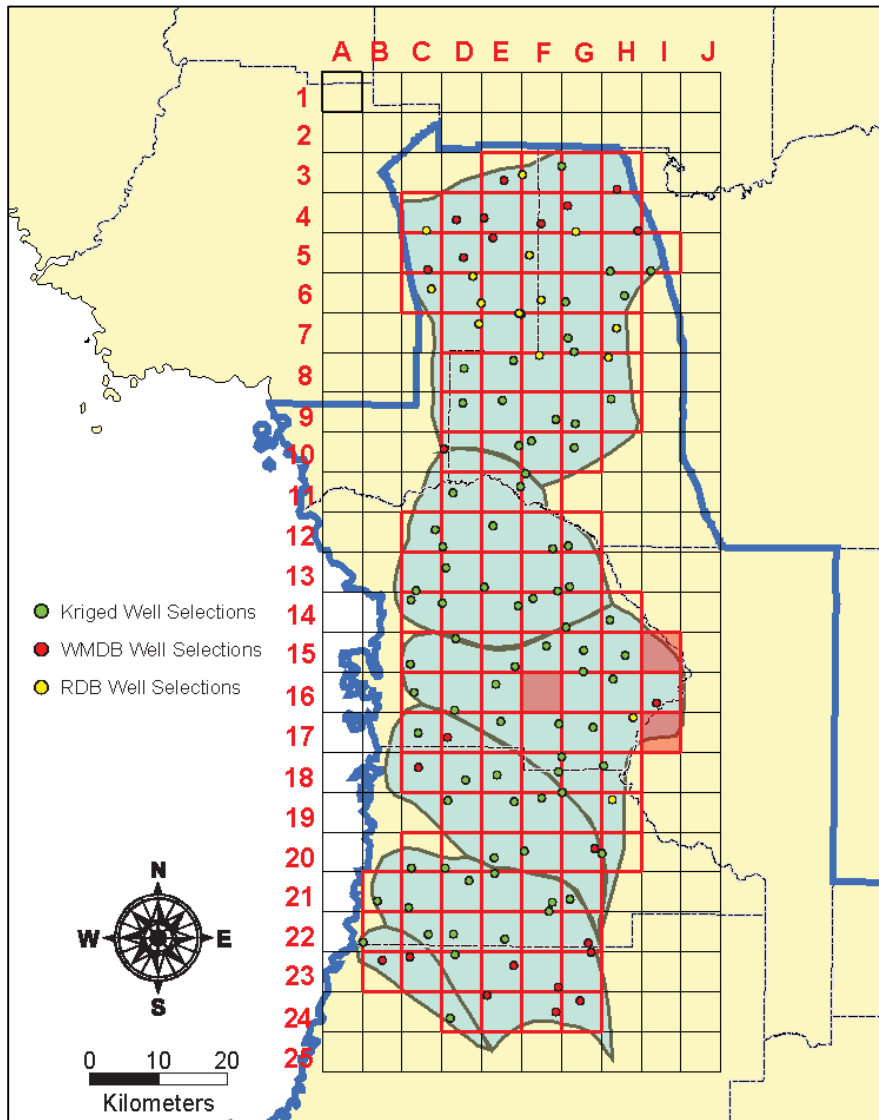
~120 wells, mostly private domestic wells

monitoring began in 2006-2007

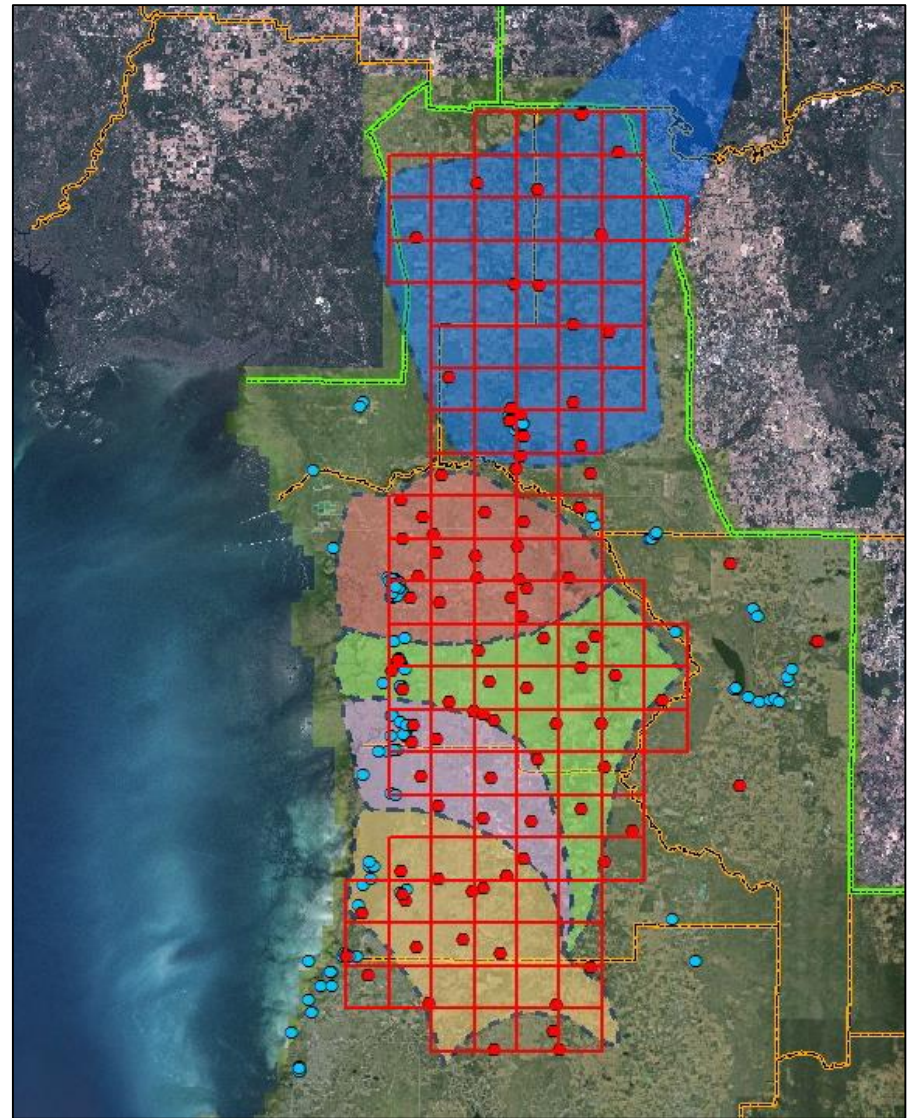
wells sampled annually, major ions, nutrients (nitrate)

Upper Floridan Aquifer Nutrient Monitoring Network (UFANMN)

Original proposed UFANMN design



Current active wells (~100 wells)



Planning to infill up to 16 well sites in the Rainbow Springs BMAP area

working with DEP and their consultant AECOM-URS to drill wells

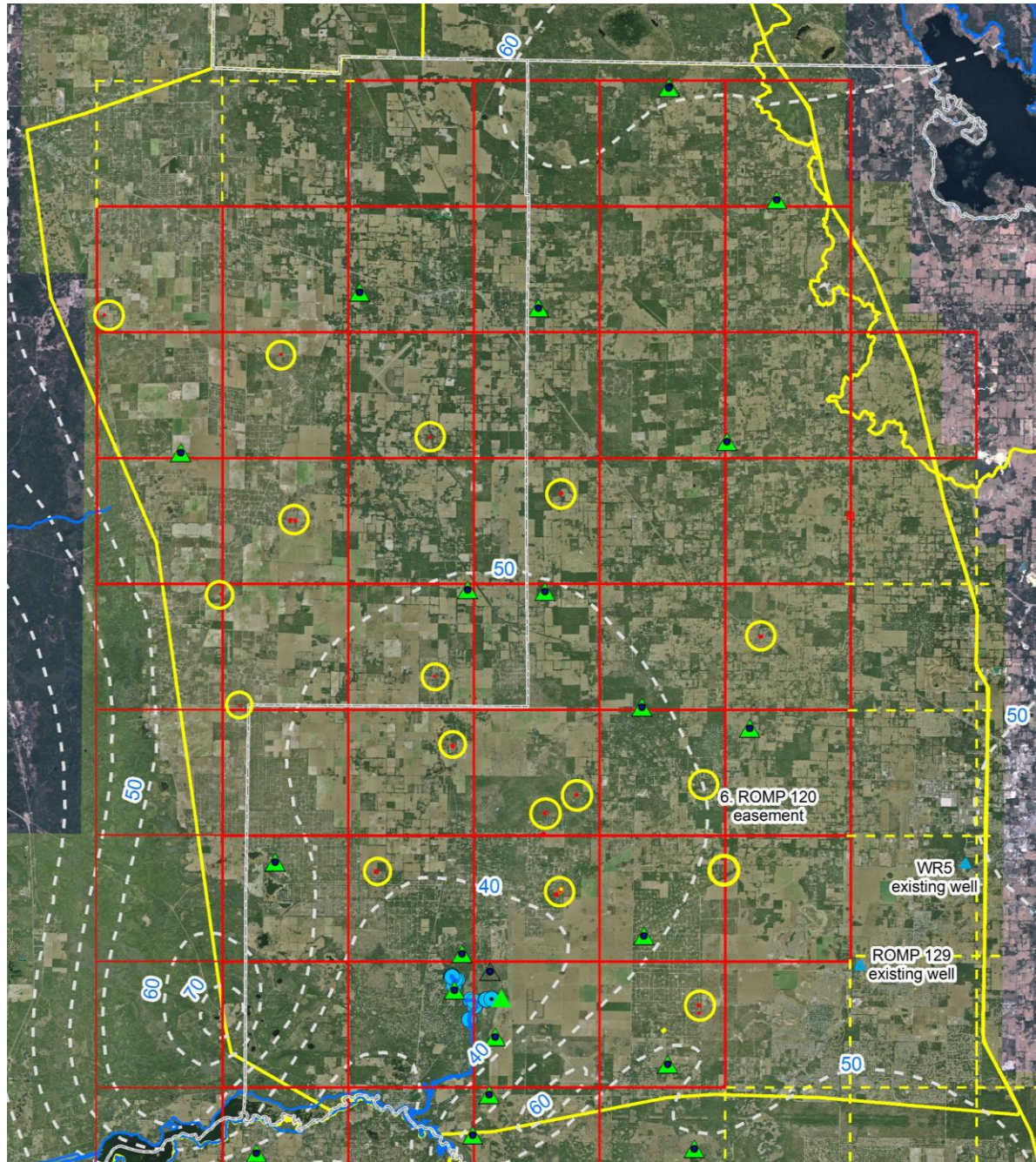
seeking suitable locations on public land

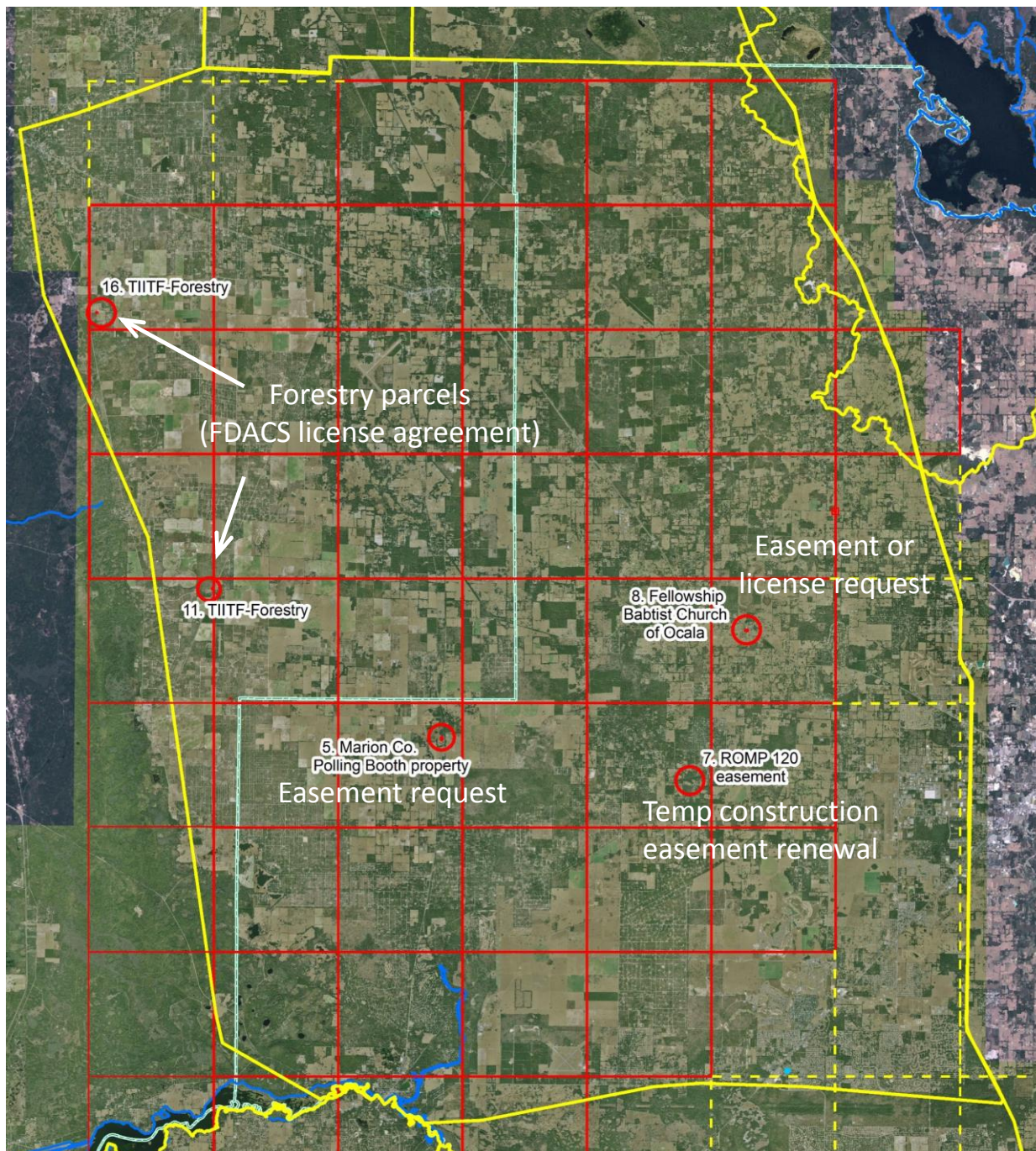
- road R/W and other county properties**
- Division of Forestry property**
- existing monitor well sites**

Begin field recon for site requests in September 2017

- easements or license agreements**
- ROW Utilization Permits**
- construct shallow Upper Floridan aquifer wells (~100' deep)**

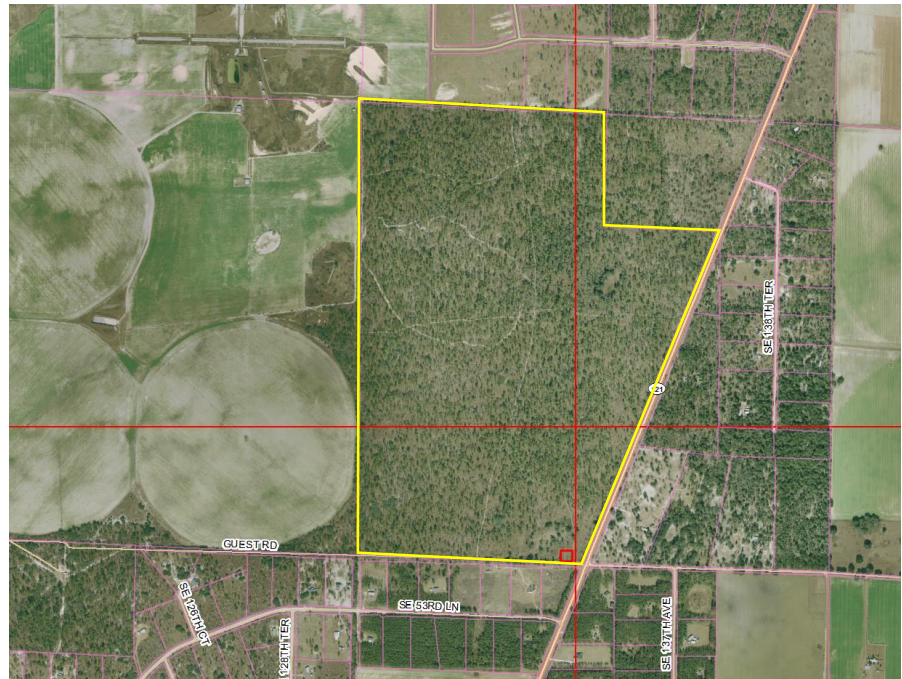
Proposed infill monitoring wells (~16 sites)





Levy Co. Forestry parcels

20-year license





Marion Co. Polling Booth lot easement request





ROMP 120 site

drilled in 1981

20' x 20' perpetual easement
(40' x 50' temp construction area)

surficial well 5'-15 (dry)

Upper Floridan well, 110'- 400'
(top of rock ~30' bls)

