

# WATERMASTER

## WATER RIGHT PERMIT APPLICATION REVIEW



Application Number: \_\_\_\_\_

Applicant's Name: \_\_\_\_\_

### **Evaluation of potential for injury to other water rights:**

1. Would the proposed water allocation have the potential for injury to other water rights?  
 Yes                       No
  
2. If the proposed water allocation will cause injury, can the permit be conditioned to avoid injury?  
 Yes                       No                       N/A

If "Yes", please list conditions necessary to avoid injury:

### **Evaluation of appropriate Measurement, Recording and Reporting Condition:**

3. Please select the measurement device(s) required for any permit issued under this application.  
 Totalizing Flow Meter                       Other/None – please describe below:  
 Staff Gage
  
4. Please select your recommended reporting requirement for any permit issued under this application. Please consider site-specific information, including but not limited to potential for injury to other water rights, regulation history of the area, and level of stakeholder interest in the application.  
 Require recording of volume of water diverted each month and require submission of a report to the Department annually.  
 Do not require recording and reporting at this time.
  
5. Please provide any additional information or permit conditions that are necessary for this application:
  
  
  
  
  
  
  
  
  
  
6. Would you like to review a draft of any permit that might be issued under this application?  
 Yes                       No

WM name: \_\_\_\_\_ WM Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Application Caseworker: \_\_\_\_\_

*Interoffice Memorandum*

6/14/2022

**To:** Lisa Graham and Scott Ceciliani  
**From:** Joe Kemper  
**Subject:** Groundwater Concerns for Proposed Reservoir R-89194

**Problem statement:** OWRD staff are concerned that the contributing surface water drainage is not sufficient to fill the reservoir under application R-8919 (See OWRD's WRIS database for water right details). The proposed reservoir may be deep enough to intersect the water table, which would allow groundwater to flow into the reservoir. If true, this creates two specific problems: 1) the source of water, wholly or in part, is groundwater rather than surface water and would require a groundwater right and 2) daylighting groundwater in such pits allows for significant amounts of evaporation from the water surface.

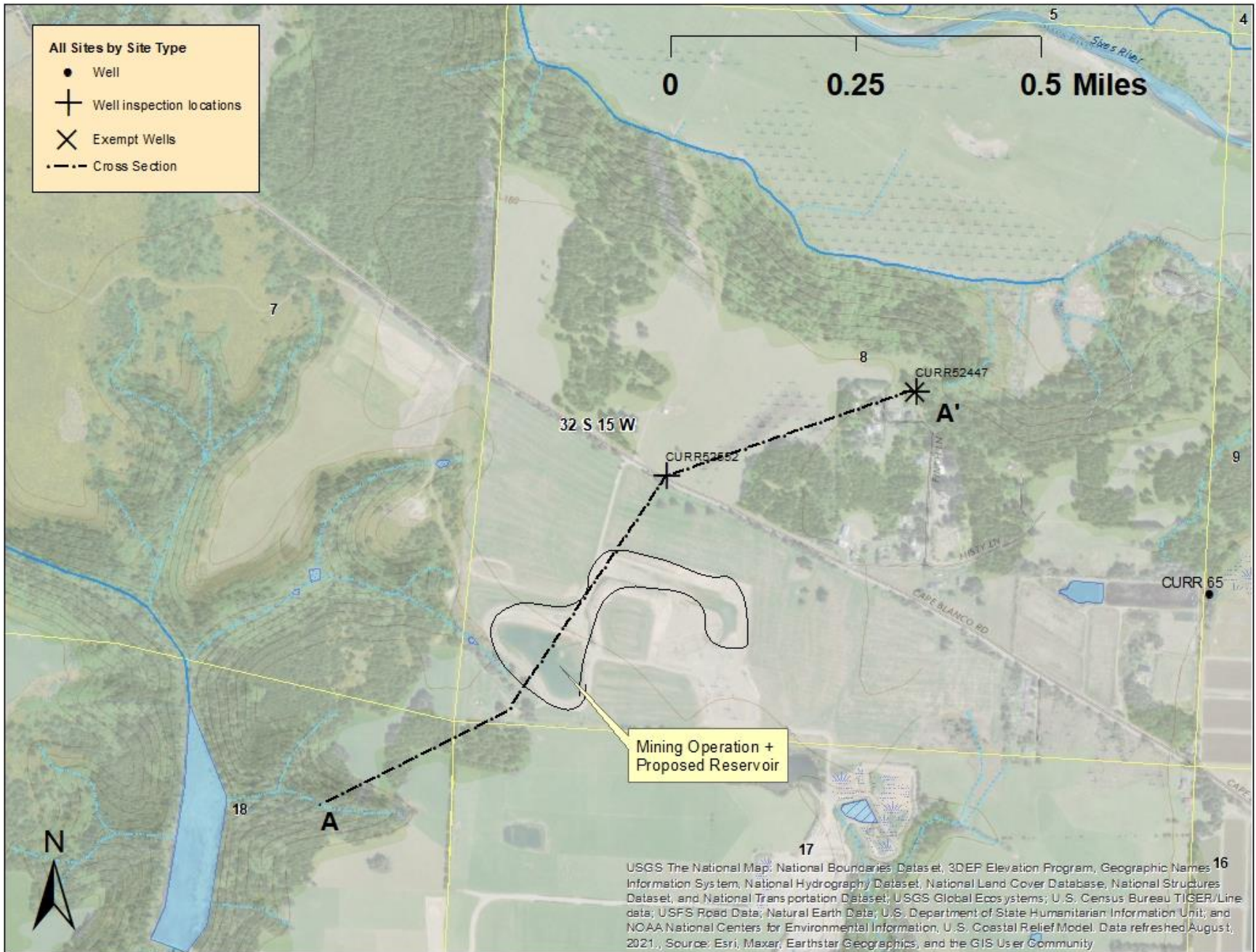
**Technical Findings:**

- The excavated reservoir for R-89194 is the location of a surface mining operation under DOGAMI ID# 08-0082 (McKenzie Site). Permitting details available at this time do not discuss groundwater concerns e.g. anticipated need for dewatering.
  - Excavation depth: > 50% is 20-22 feet below land surface.
  - Elevation of excavation bottom: 145 ft amsl - source LIDAR.
- The site geology is characterized by the following:
  - Pioneer Terrace sediments at the surface. Sediments are 10-50 feet. Well logs indicate that the sediments thin out towards the northeast.
  - Terrace sediments are underlain by Port Orford Formation: Lower Pleistocene. Weakly cemented sandstone, conglomerate, and argillaceous siltstone. Top of unit in drainages to the SW reach 120-125 feet amsl. Formation appears to pinch out to the northeast
  - Undivided Otter Point formation is a Mesozoic aged package of marine sedimentary rocks underlying the terrace sediments and Port Orford formation.
- Excavation depth: > 50% is 20-22 feet below land surface.
  - Elevation of excavation bottom: 145 ft amsl - source LIDAR.
- Water level elevation data:
  - CURR 52447: wellhead elevation = 189.4 ft amsl; wl blsd = 18; wl elev = 171.4; located 0.5 mi NE.
  - CURR 52552: wellhead elevation = 182.6 ft amsl; wl blsd = 17.5; wl elev = 165.1 ; located <1000 ft to N.
  - CURR 65: wellhead elevation = 188.43 ft amsl; wl blsd = 20-30 ft; wl elev = 158-165; ~4000 ft ENE.

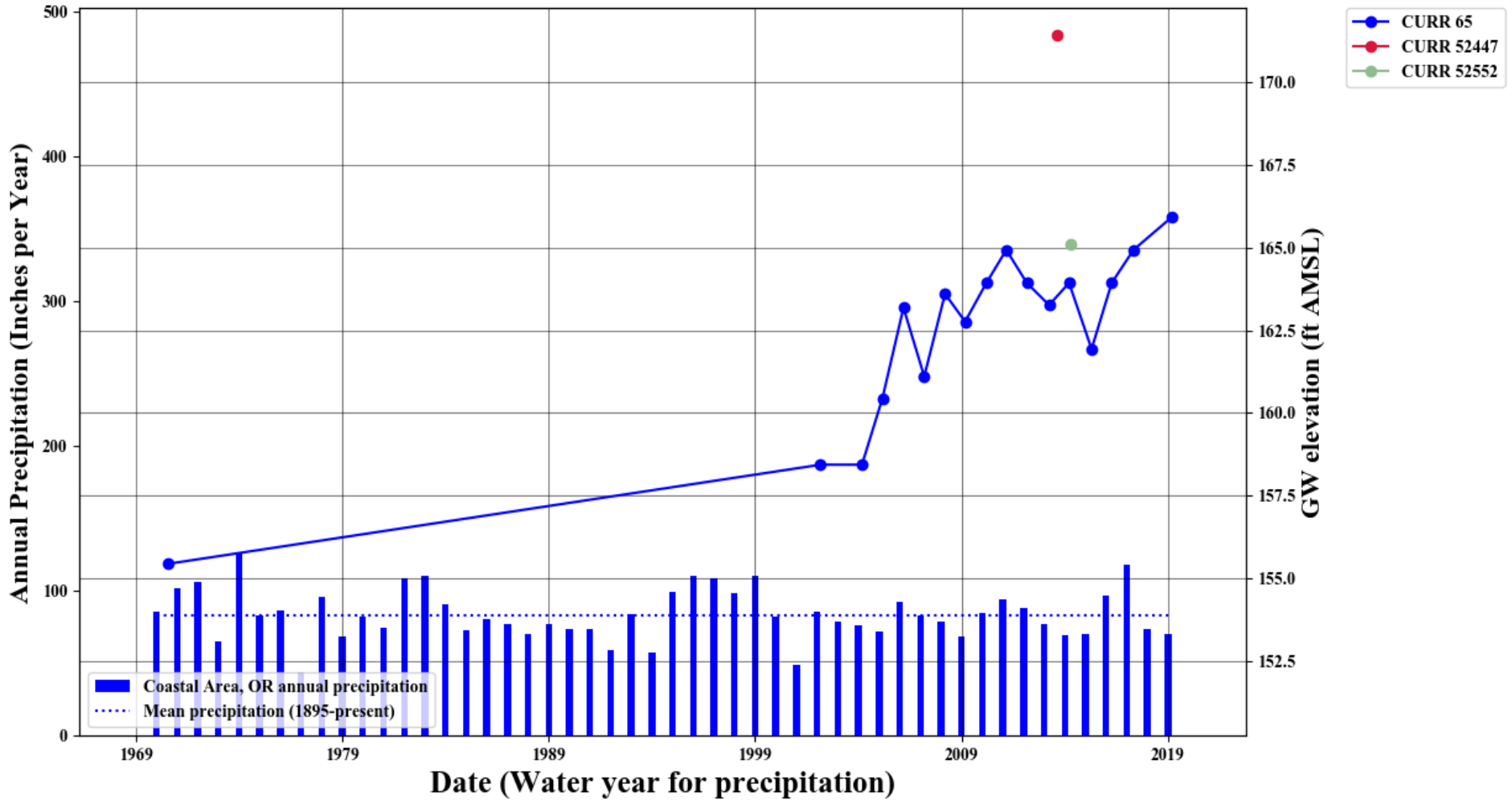
**Observations:**

- The excavation accesses only the Pioneer Terrace sediments to a depth of 145 amsl.
- The water table in the sediments is at 158-171 feet amsl. Degree of seasonal fluctuation is unknown.
- Based on available information, the excavation or proposed reservoir appears to intersect the water table and captures groundwater from the adjacent aquifer. Beneficial use from the reservoir would thus produce from groundwater, not just stored surface water.

# Site Map



# Observation Well Data



# Site Cross Section

