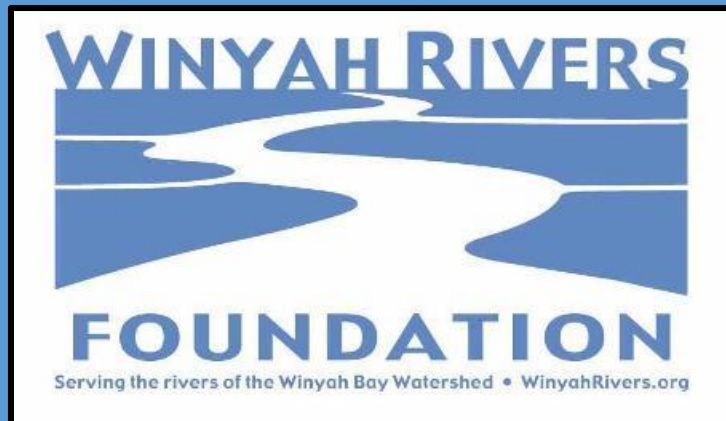


# Your Data in Action: Sterritt Swamp

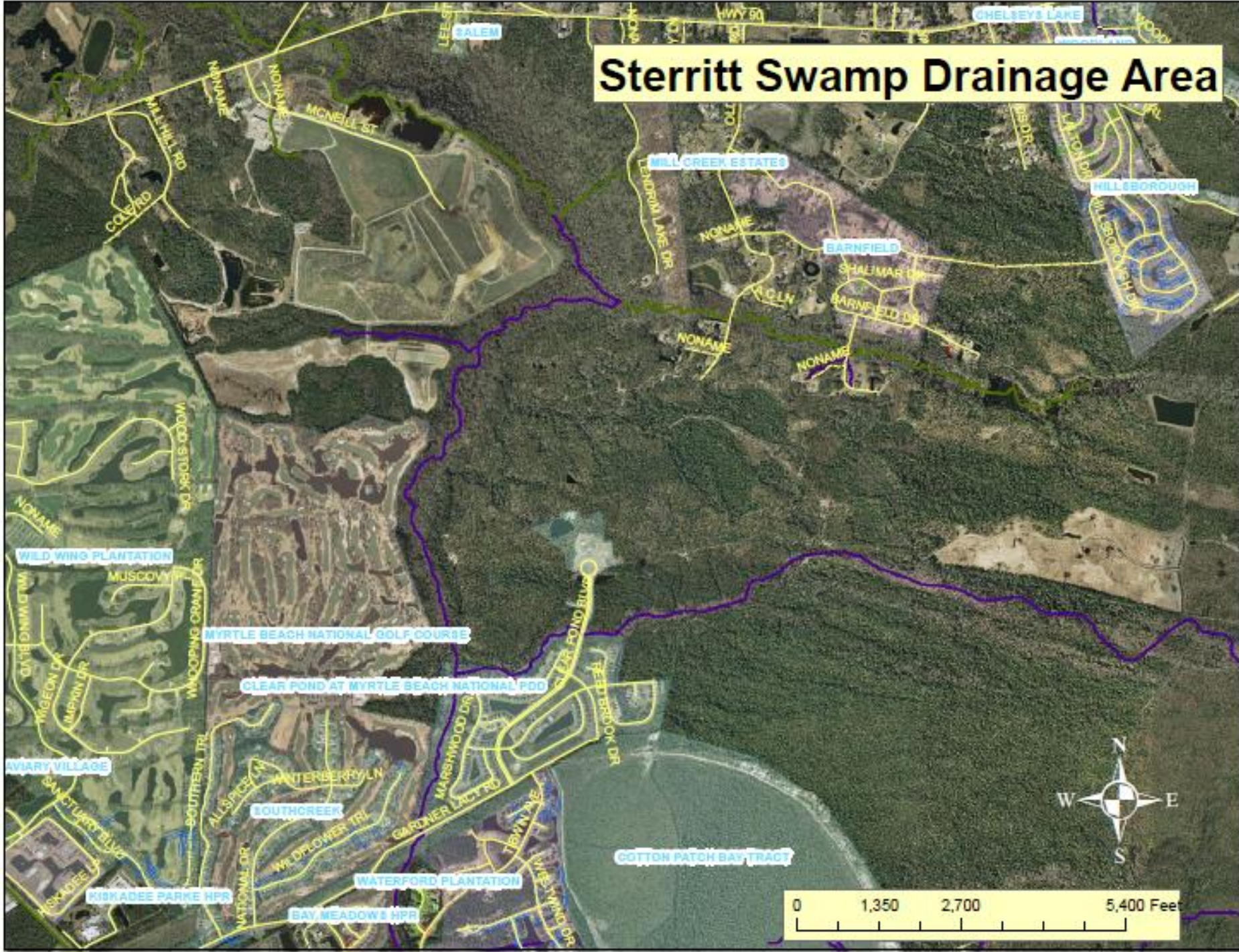
Water Monitoring Volunteer Luncheon April 19<sup>th</sup> 2017

Emma Boyer, Waccamaw Riverkeeper



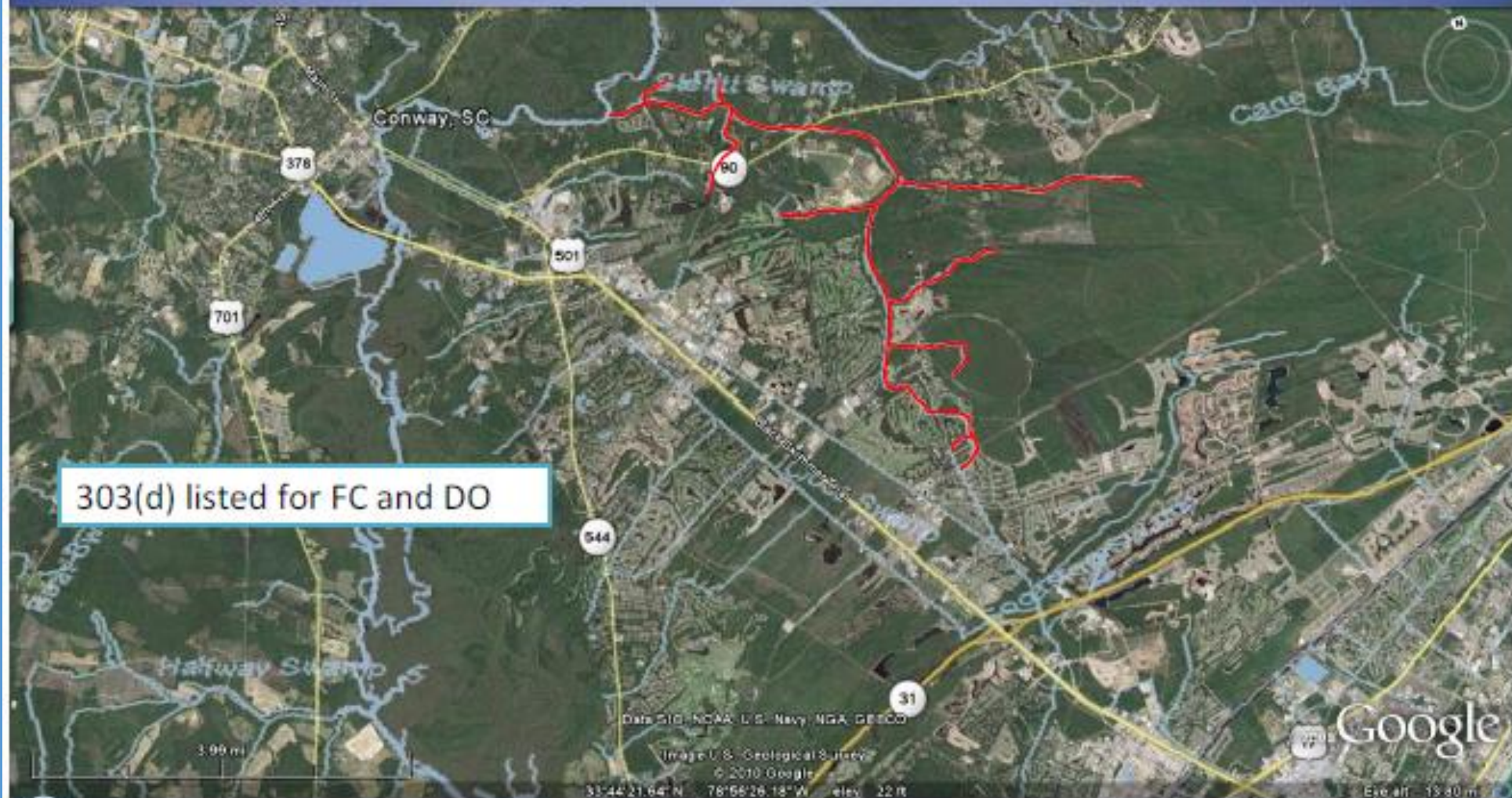


# Sterritt Swamp Drainage Area



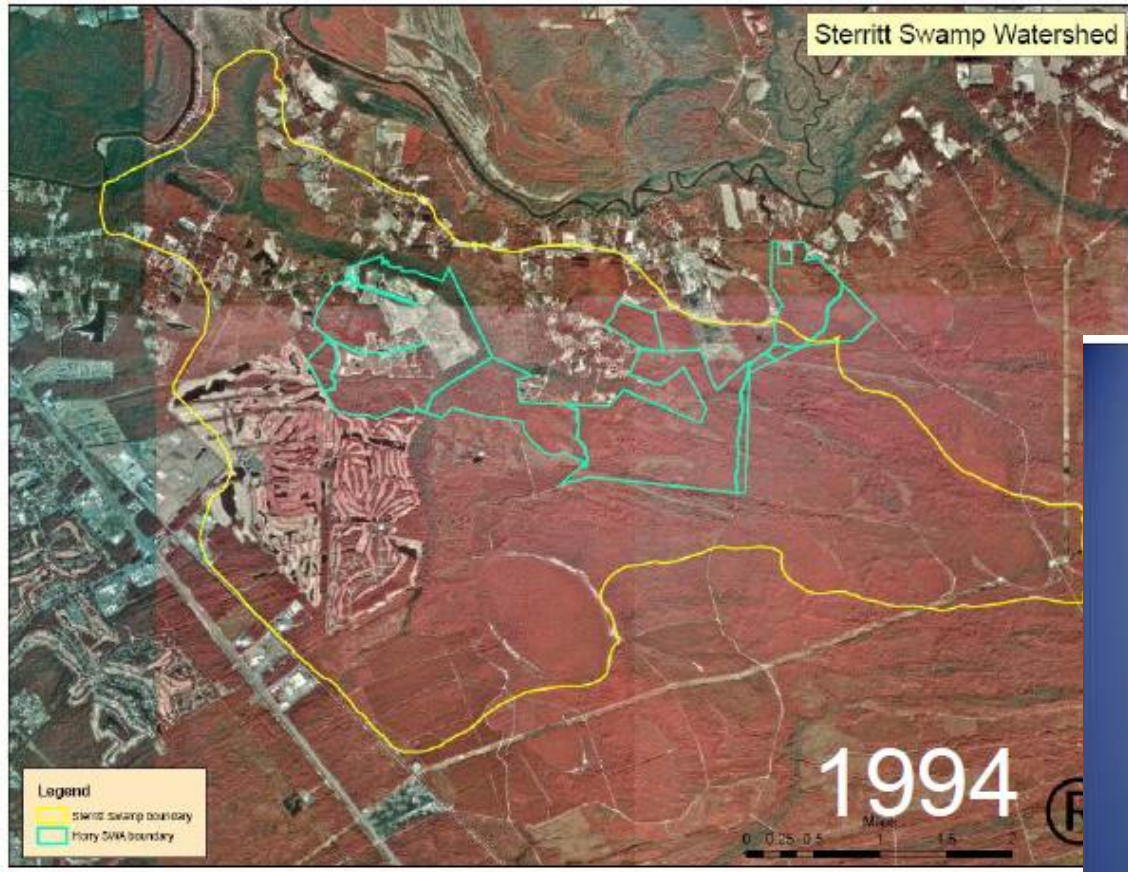


# Sterritt Swamp

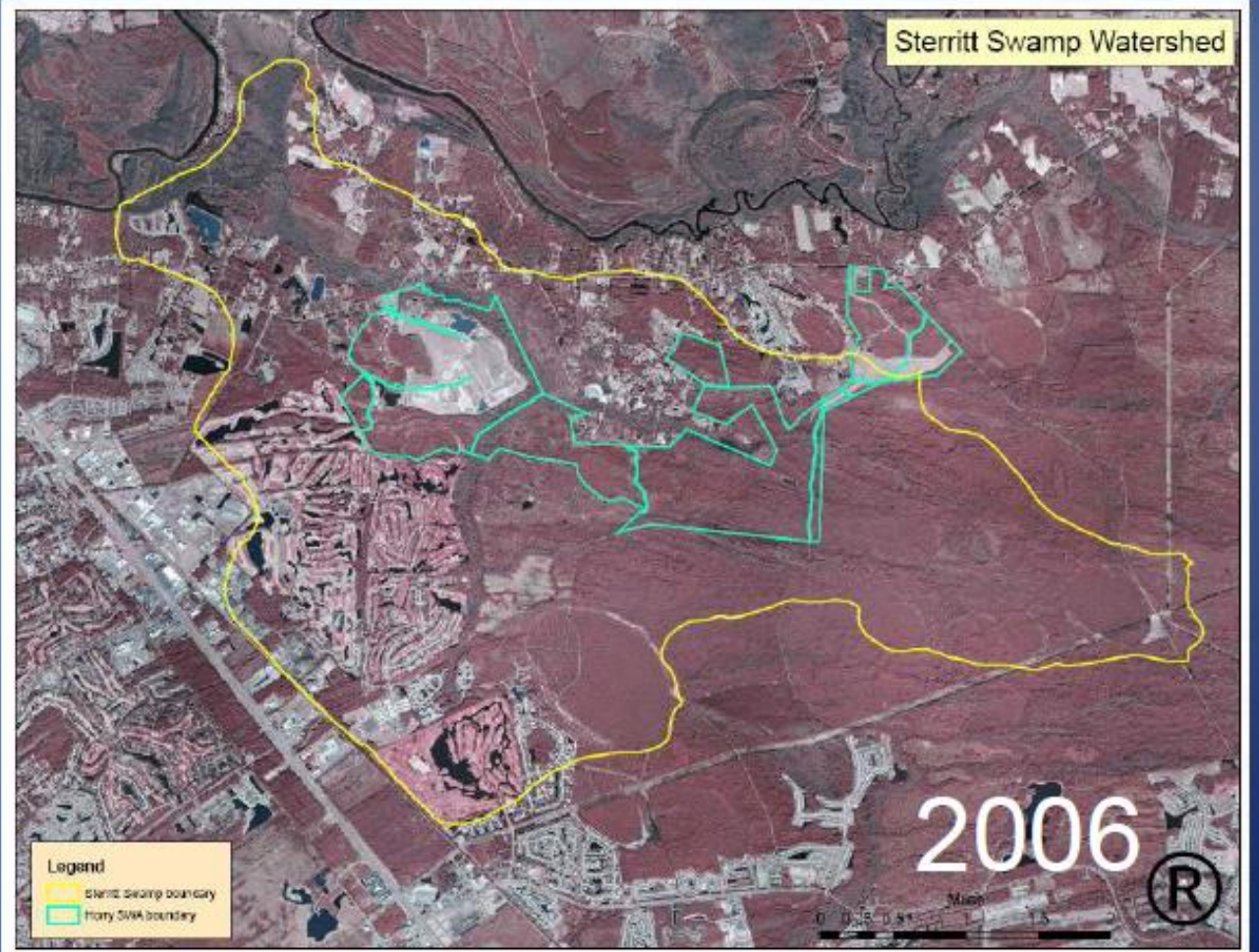




Sterritt Swamp Watershed

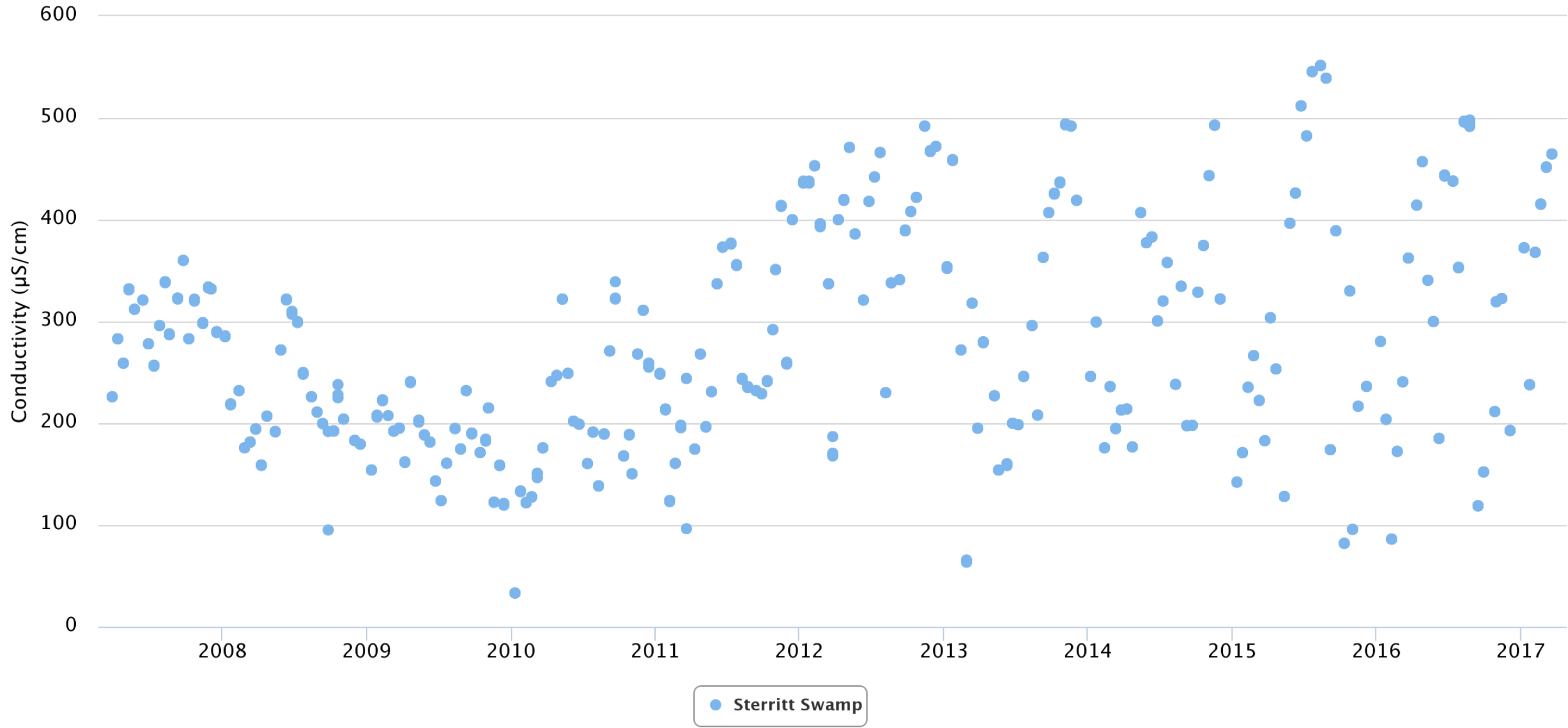


Sterritt Swamp Watershed

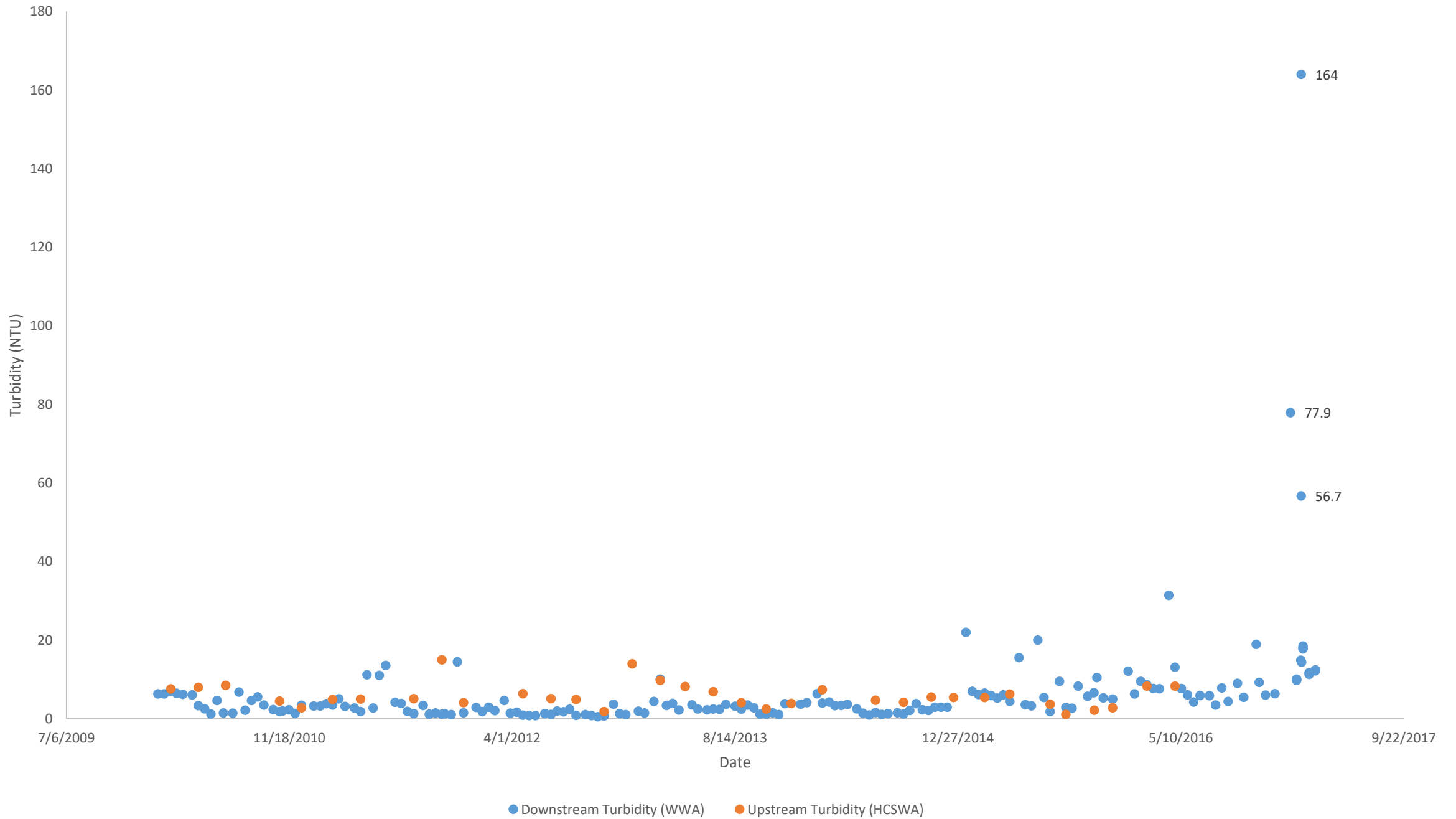


# Conductivity ( $\mu\text{S}/\text{cm}$ )

Data collected between Jun 06, 2006 and Mar 26, 2017



# Turbidity in Sterritt Swamp upstream and downstream of HCSWA







January 2017



January 2016



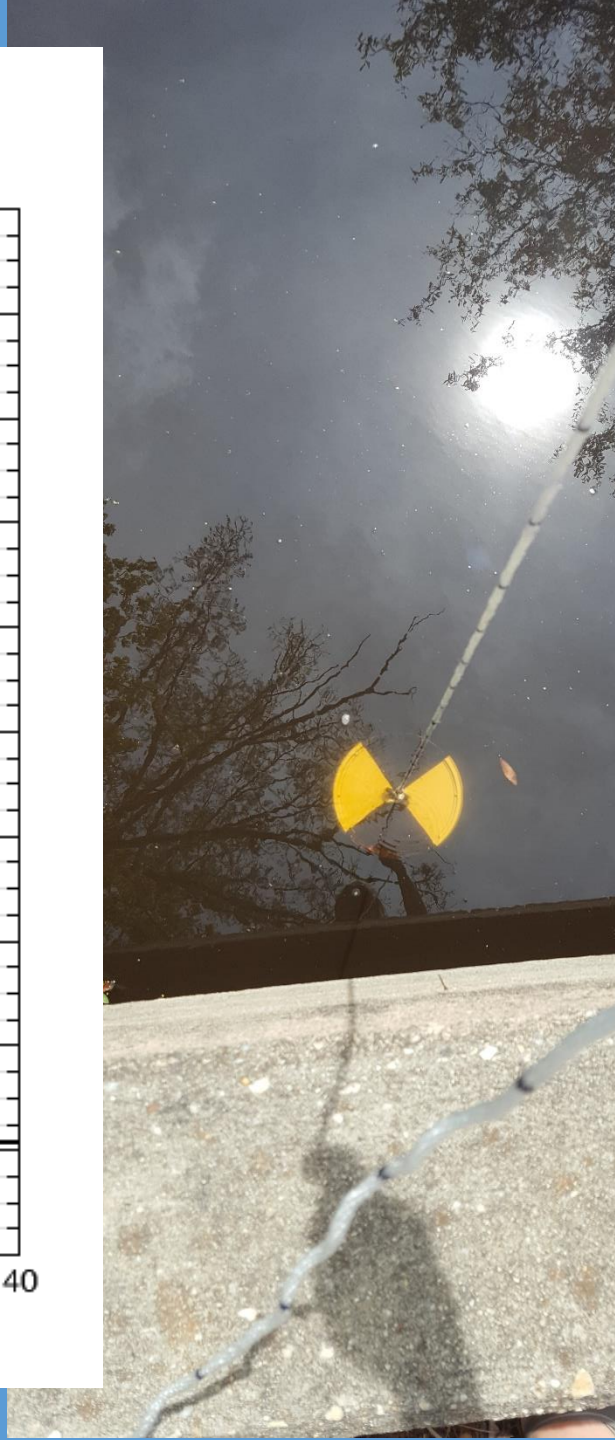
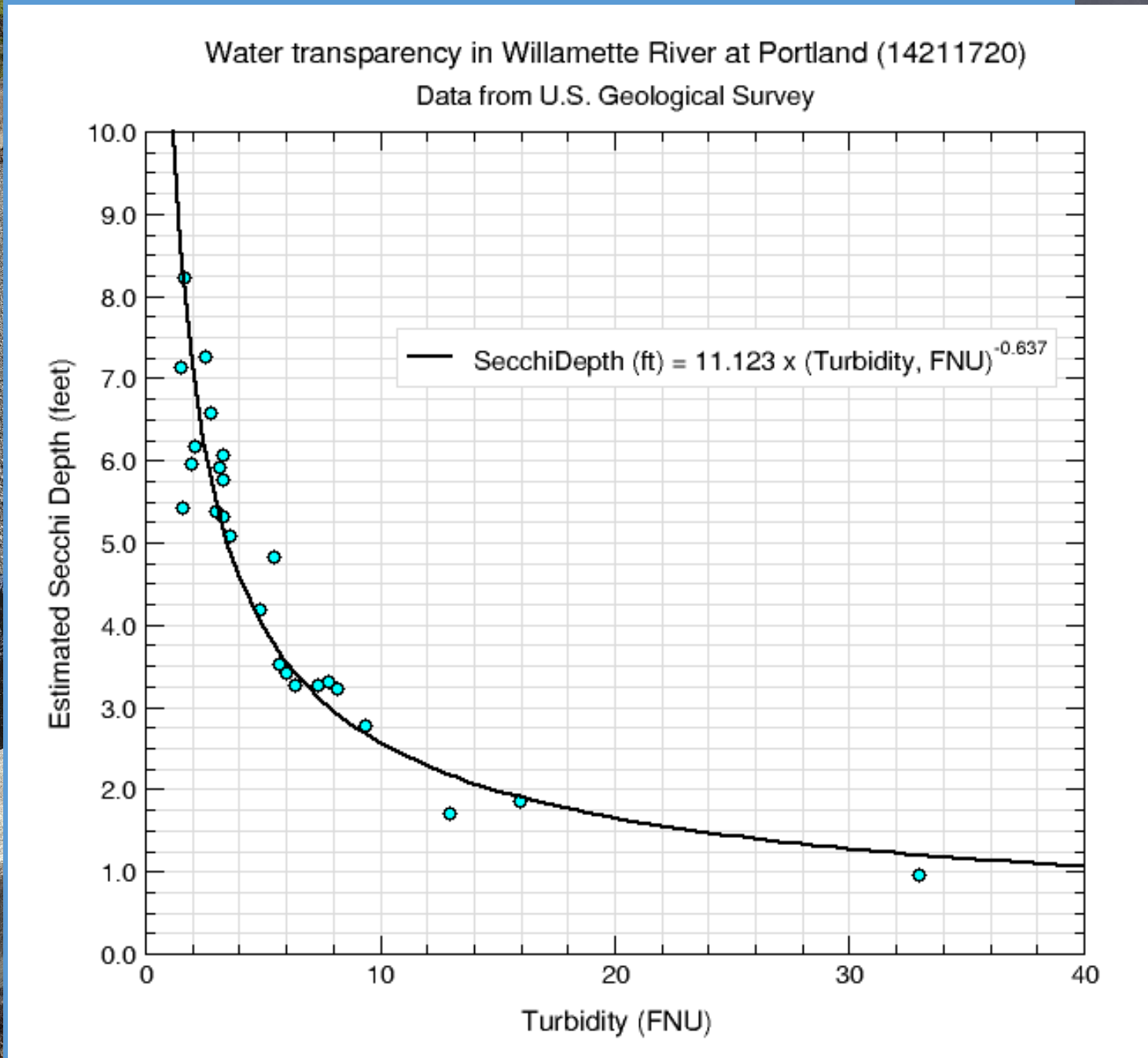
# Potential Sources of High Conductivity and Turbidity in Sterritt Swamp Watershed

- Golf courses
- Construction/ Clearing land
- HCSWA



# Actions Taken

- Communications with SCDHEC, Horry County Stormwater, and HCSWA whenever we measure conditions out of range
  - Actions by the various agencies prompted by sharing our data
    - HC Stormwater has completed numerous surveys of the watershed and visits to the HCSWA and active construction sites
    - SCDHEC has performed at least two inspections of HCSWA
    - HCSWA shared data from their water quality monitoring efforts
    - Contractors in Clear Pond neighborhood took measures to better control their sediment runoff per the recommendations of HC Stormwater
    - Jan-Feb 2017 the HCSWA improved their turbidity controls of borrow pit discharge
- Met with SC DHEC and HCSWA to discuss further investigations
- With the help of a volunteer we established more frequent water clarity monitoring at the site
  - Secchi depth → sample collection if necessary





# Going forward....

- Continue supplementing regular monitoring data with secchi measurements and collecting extra turbidity samples when necessary
- Meeting with HCSWA next week to discuss our concerns and request their assistance in the investigation