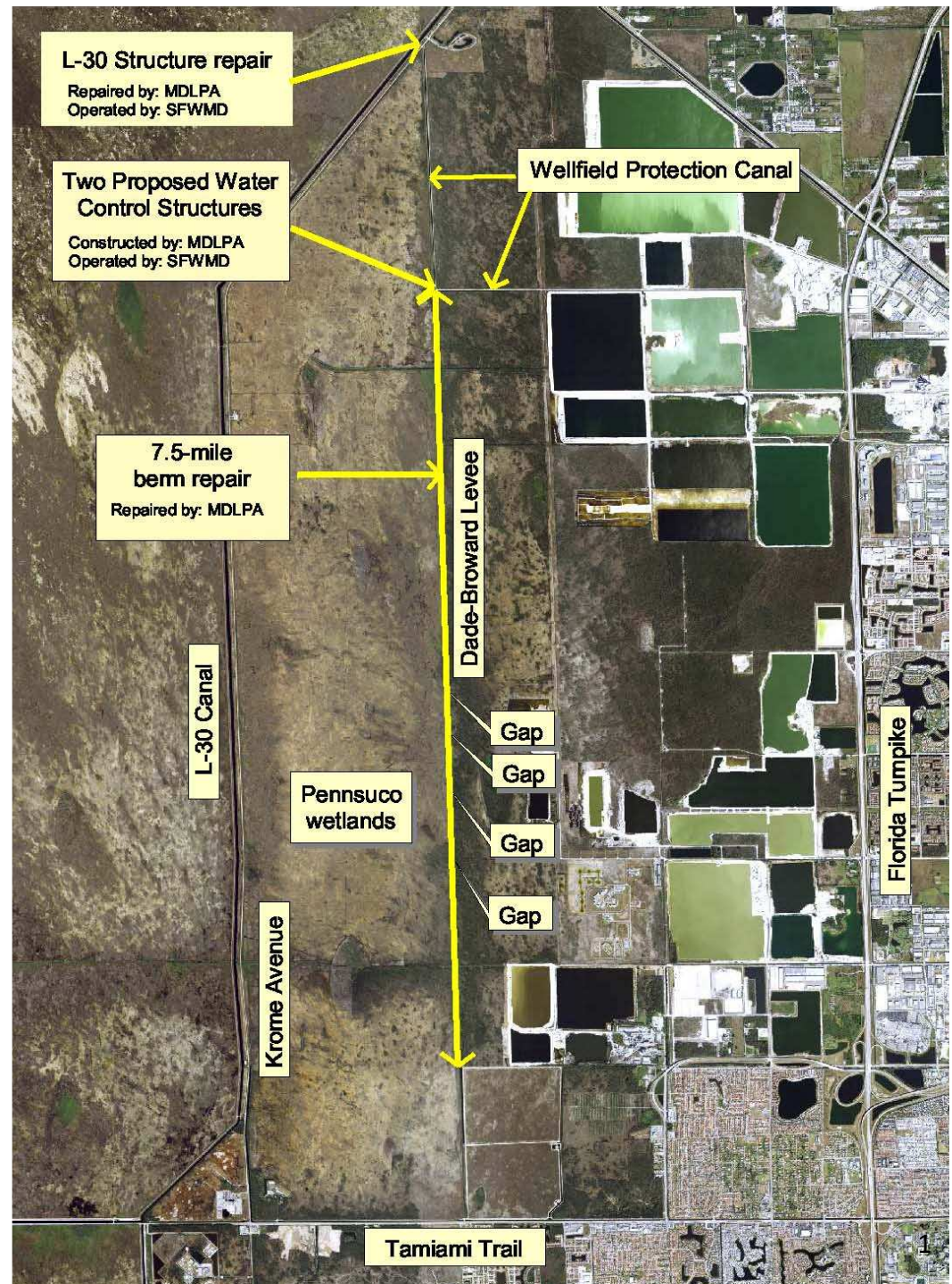


Dade-Broward Levee Project

Task 1: 7.5 mile berm repair
completed 2016

Task 2: two proposed water
control structures
under construction

Task 3: L-30 structure repair/
remote control operation
design review complete



9/19/2018

Modeling Results

Task 1:

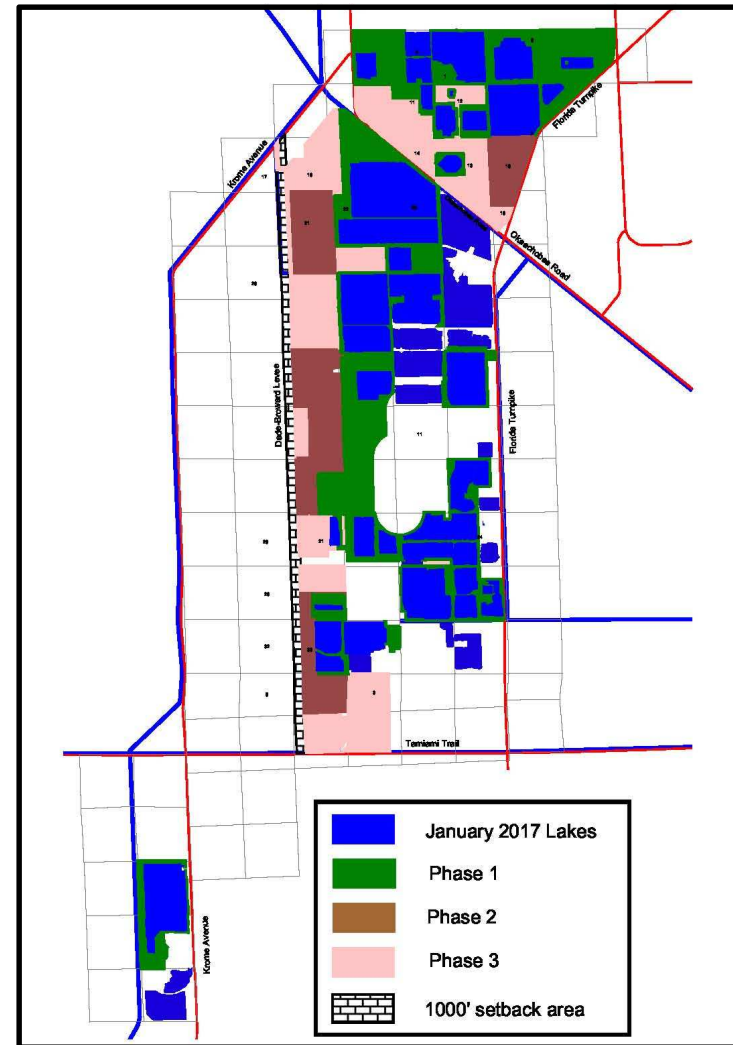
Repair of the gaps in the Dade-Broward Levee offsets potential impacts from Phase 1 mining;

Task 2:

Wellfield Protection Canal structure offsets potential impacts from Phase 2 mining; and

Task 3:

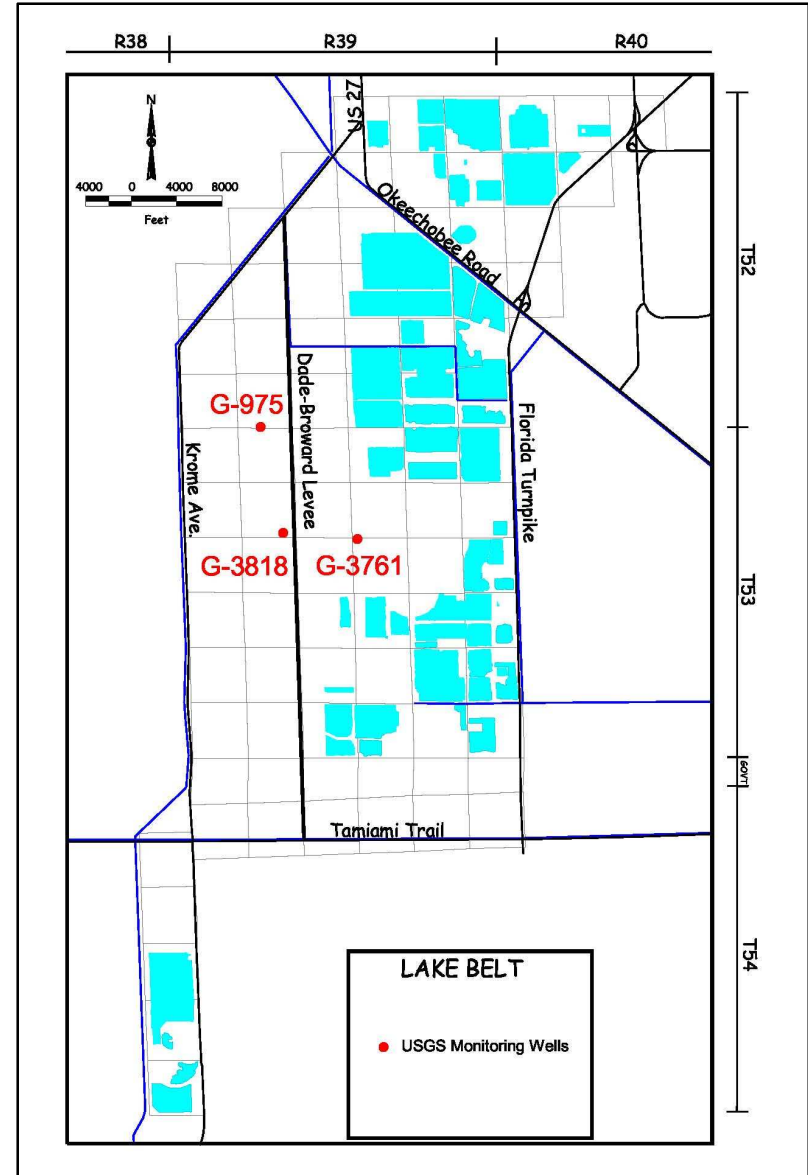
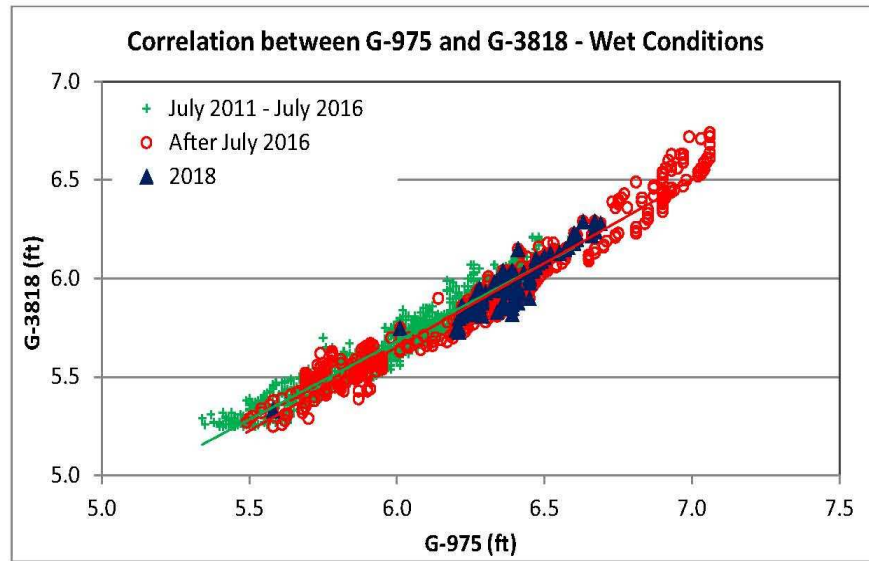
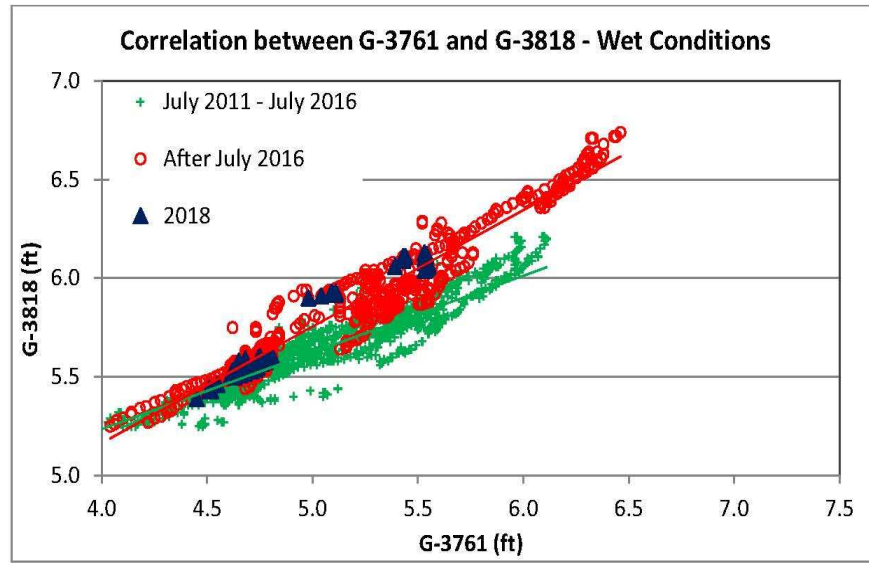
Diversion of water from the L-30 Canal to the Pennsuco wetlands offsets potential impacts from Phase 3 mining with 1000' setback on east side of Dade-Broward Levee.



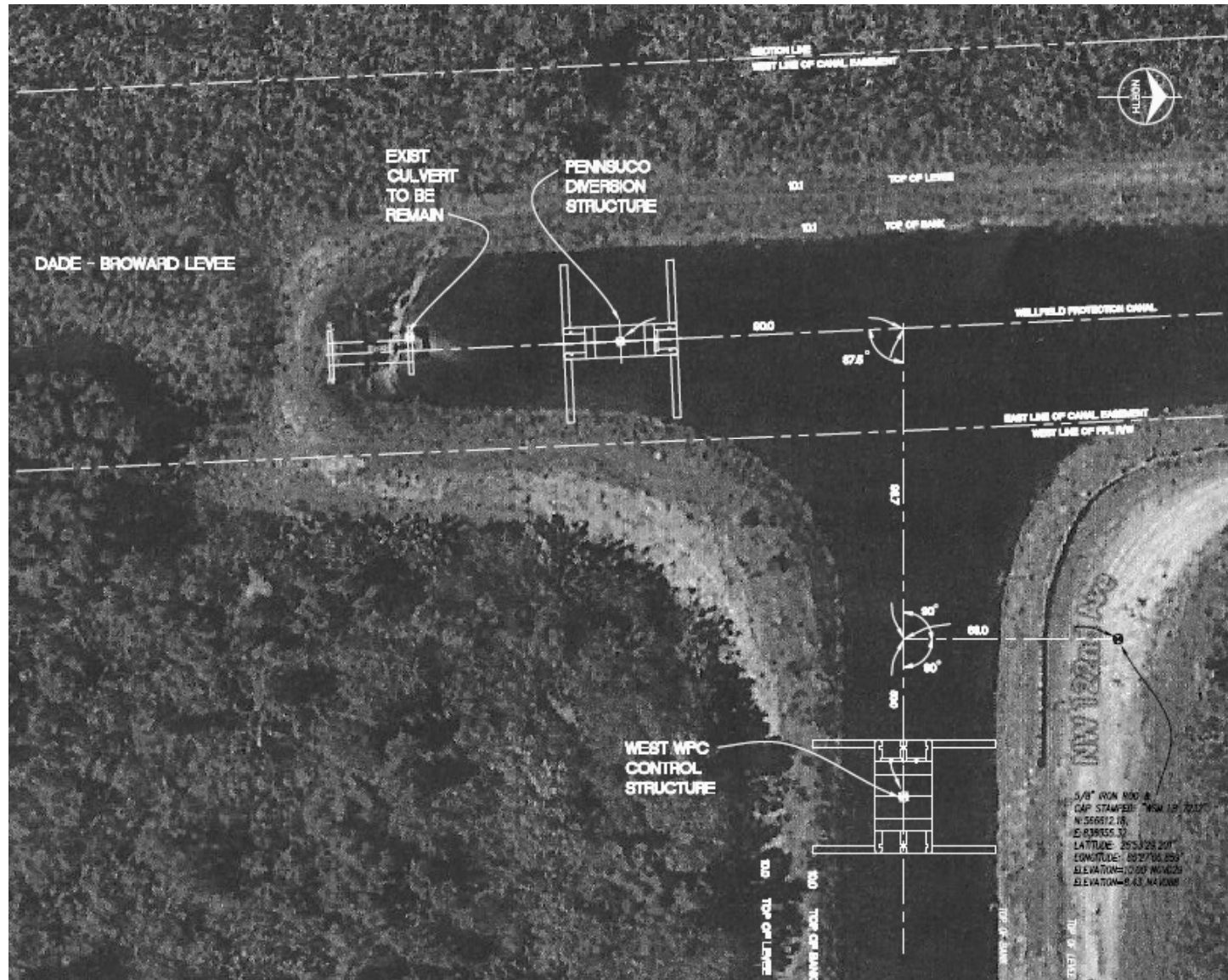


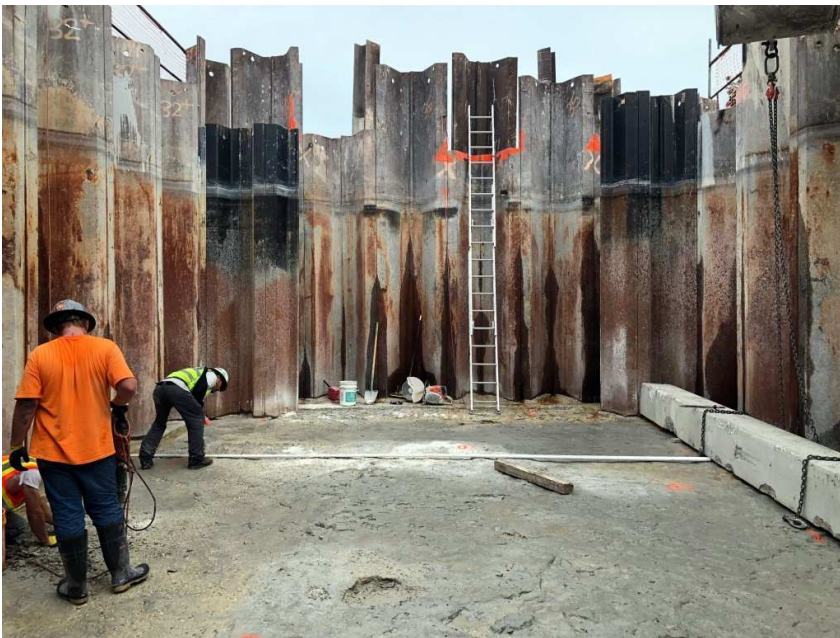
DBL gaps - 1370' below 6.5' (seasonal high water)

Berm Repair



Water control structures





West Wellfield Protection Canal structure

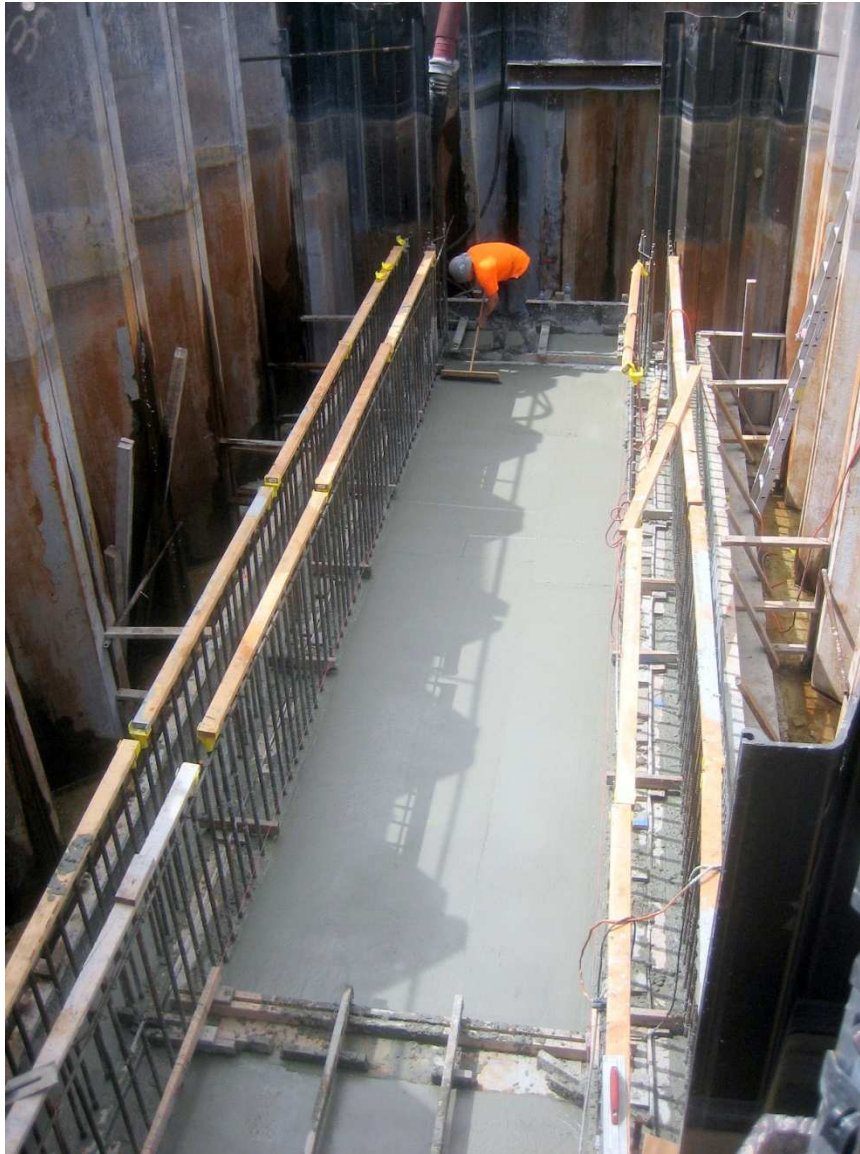
West WPC structure



Upstream

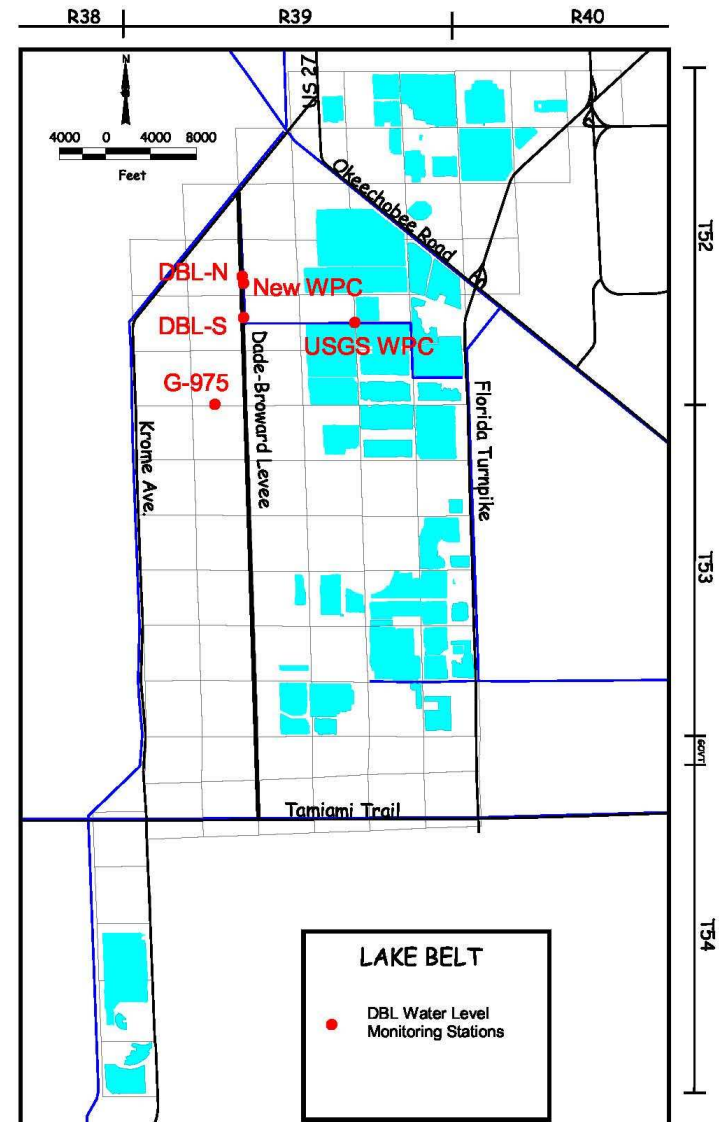
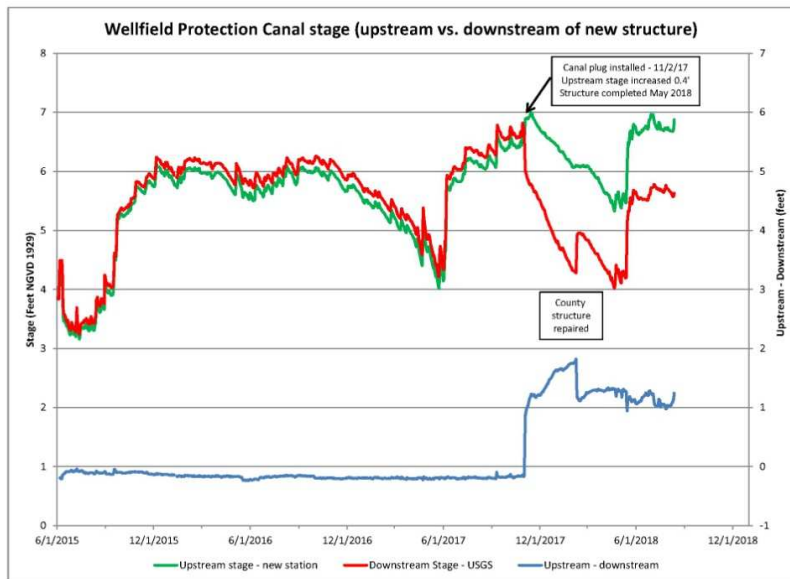
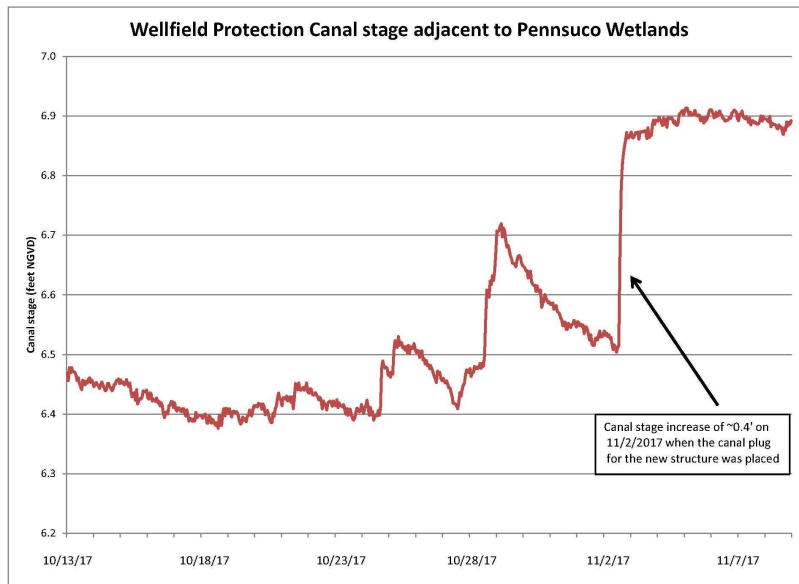


Downstream

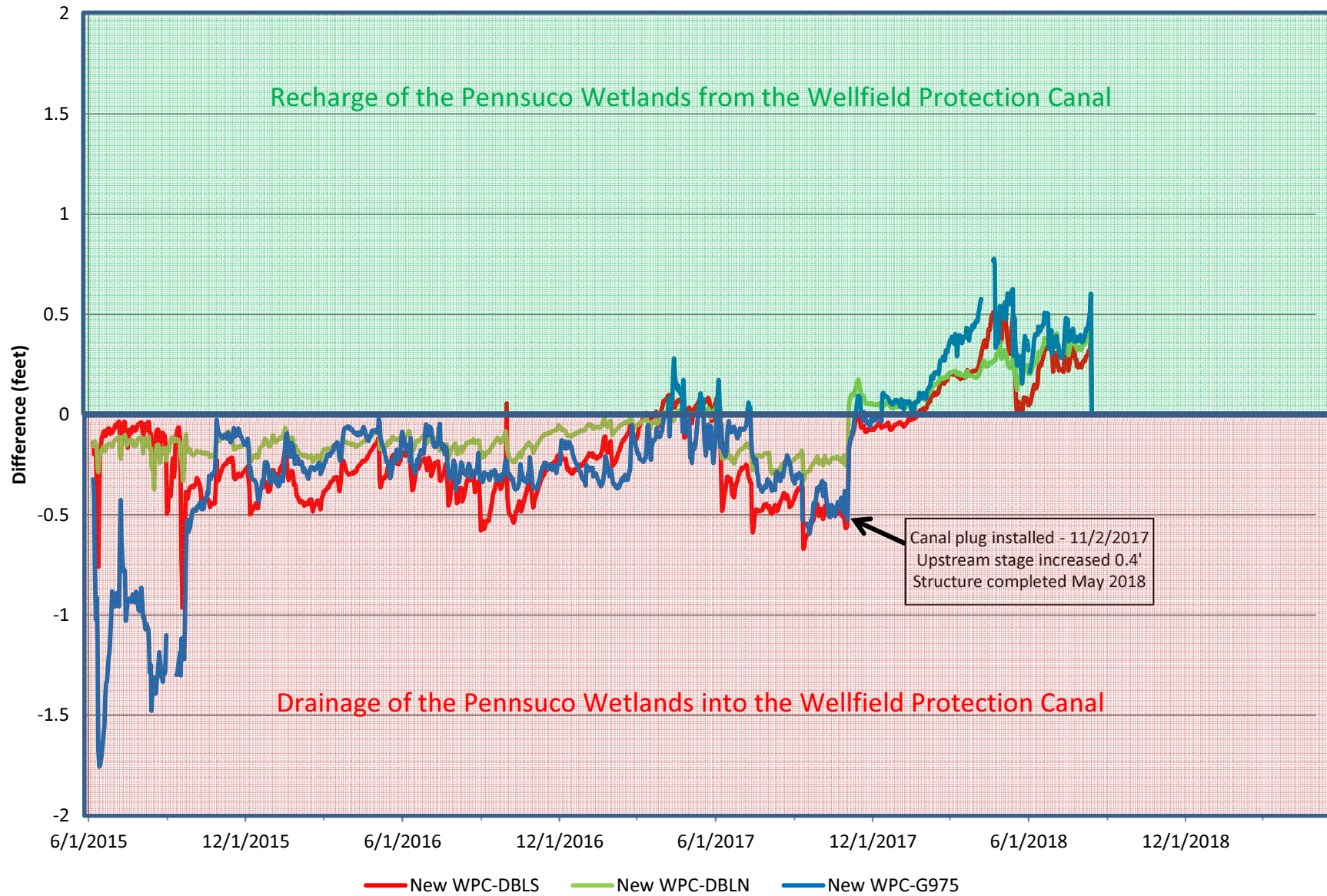


Pennsuco Diversion structure

New Structure

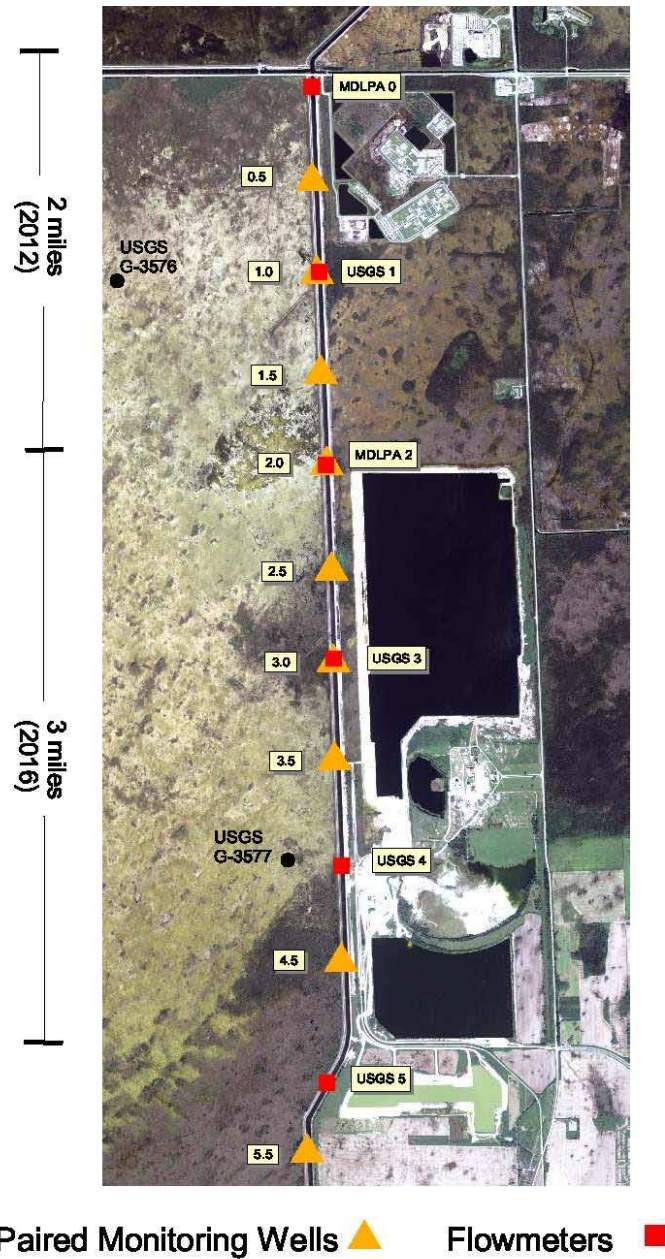


Wellfield Protection Canal vs. Pennsuco wetland water levels

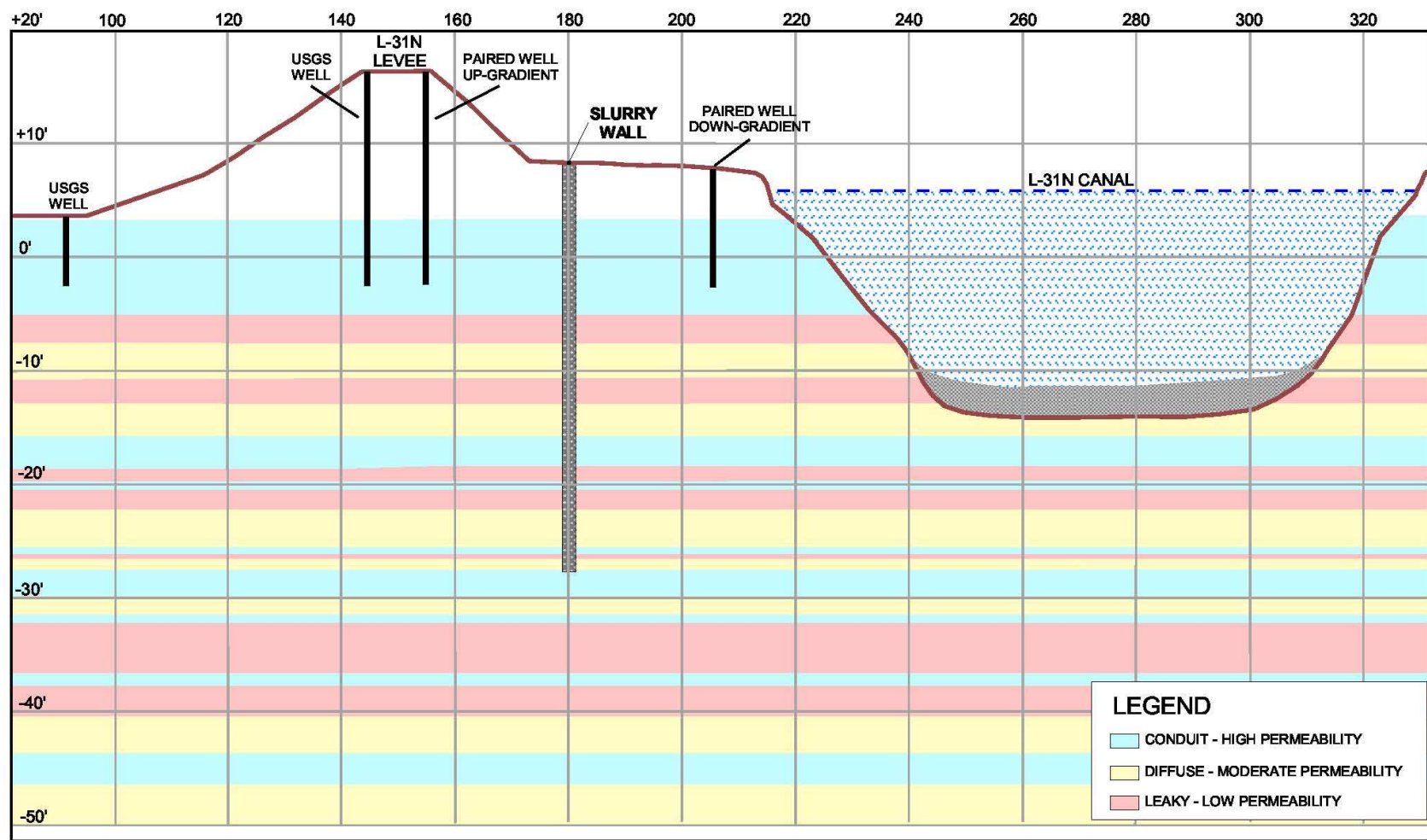


L-31N Updated Monitoring Program

New wells and dataloggers
have been installed







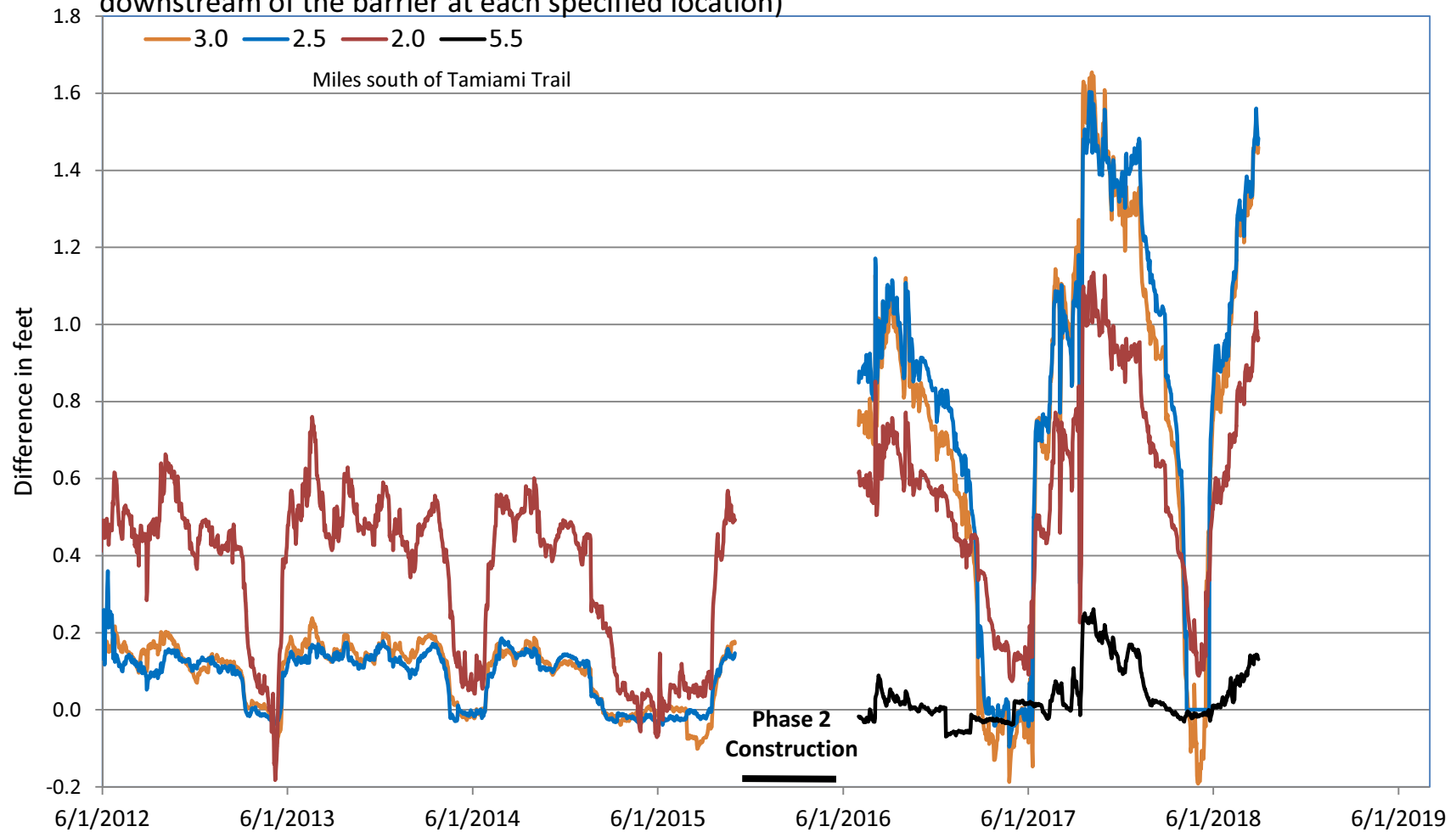
Hydrologic Pore Class and Boring from: Cunningham (2006 - USGS SIR 2005-315)

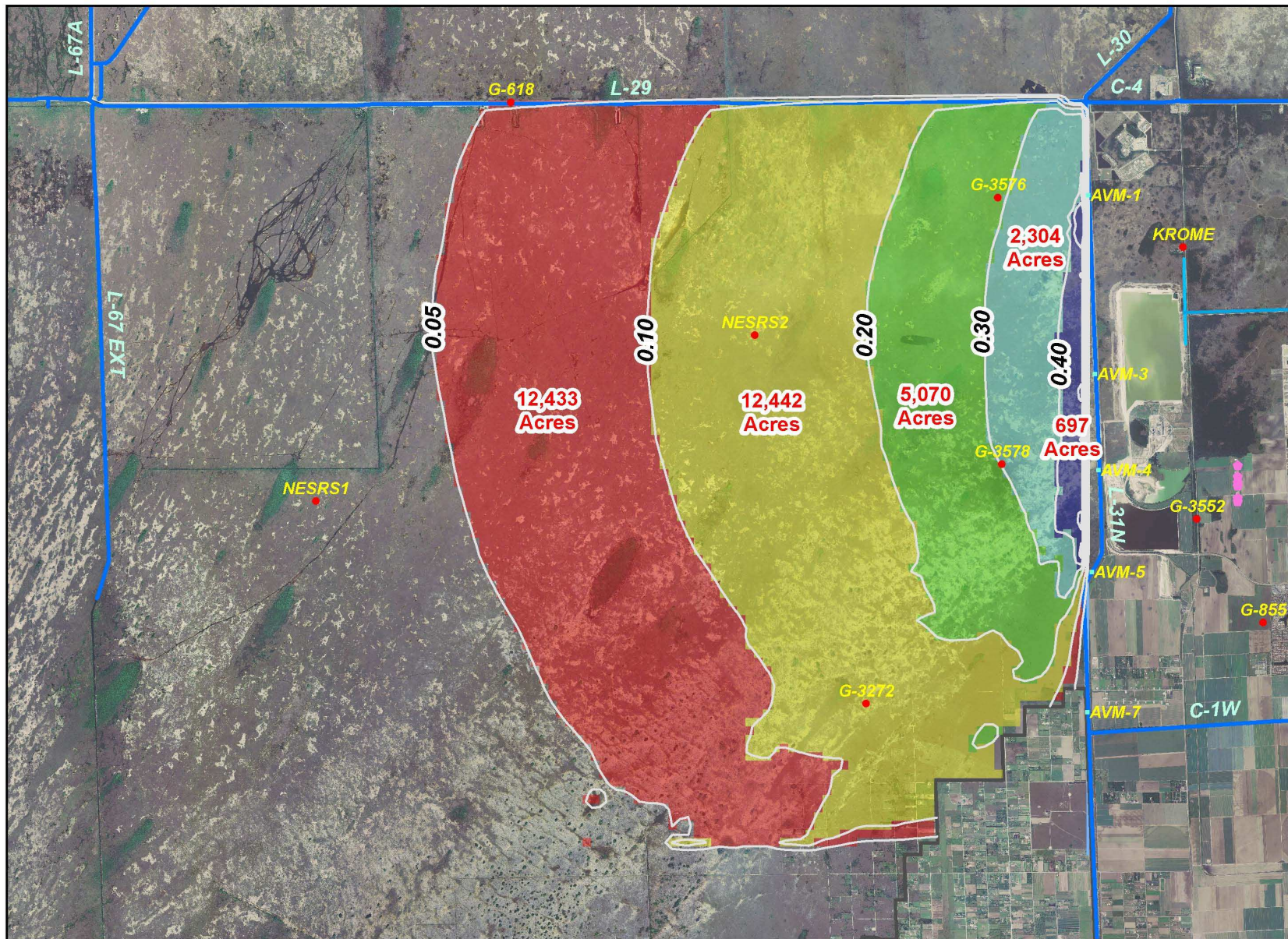
Paired Monitoring Wells Up-gradient and Down-gradient of 36' Deep Seepage Barrier

Groundwater Stage Difference Across Barrier

(Difference between paired water table wells upstream and downstream of the barrier at each specified location)

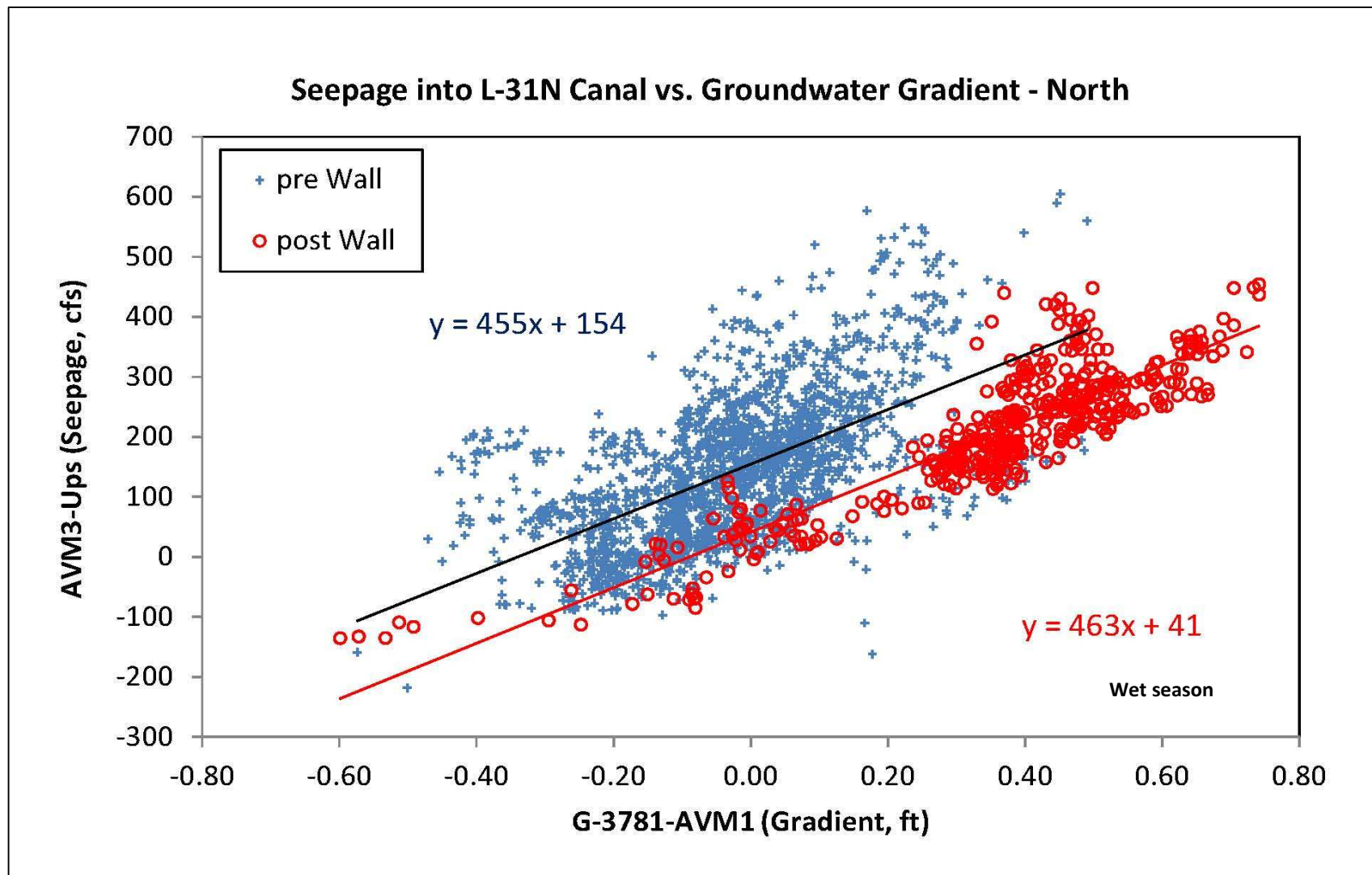
The northern 2 miles of barrier were completed in 2012.
The remaining 3 miles were completed in April 2016.



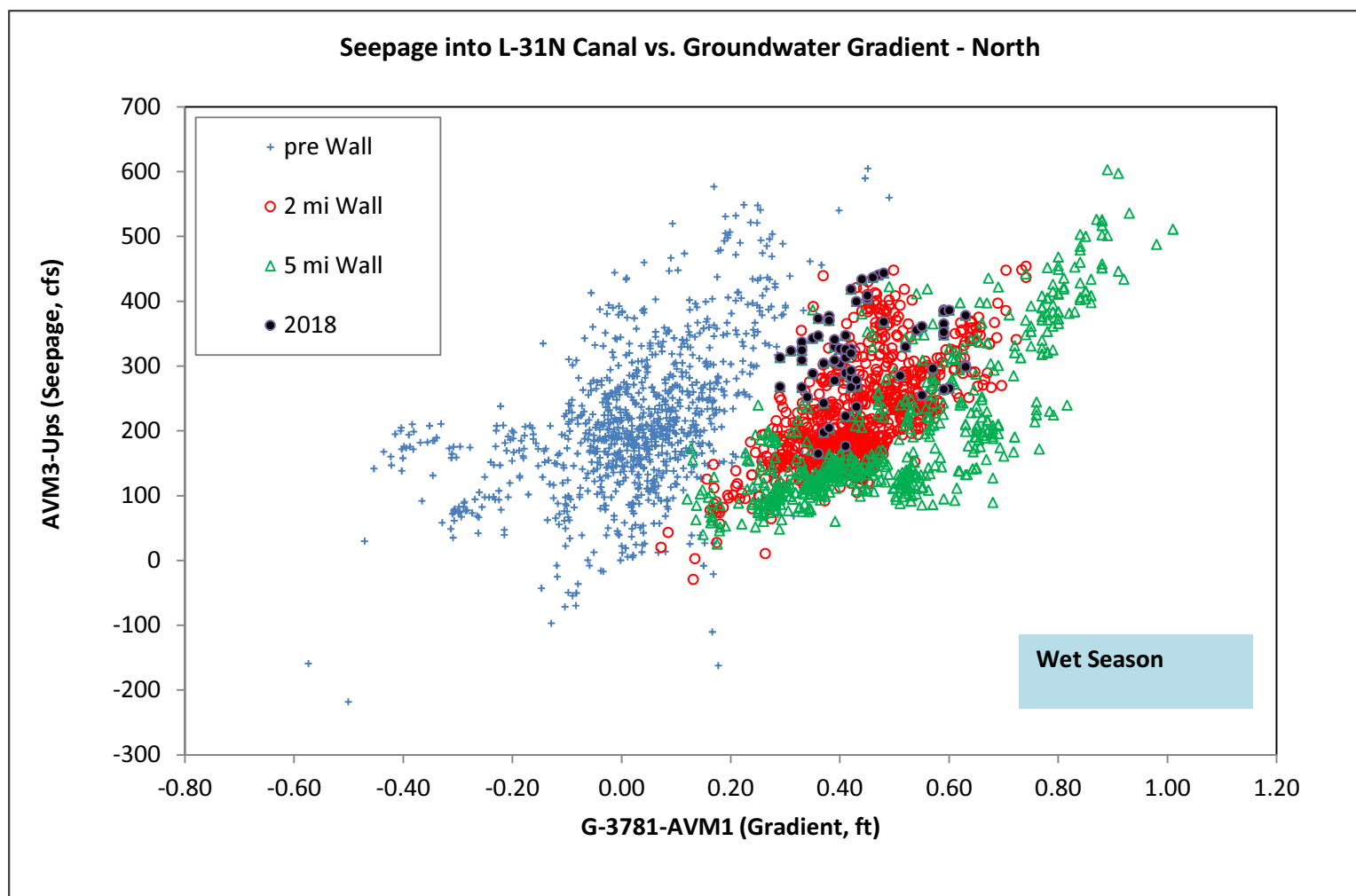


Effect of a 5-Mile Barrier Wall on Groundwater Levels Inside the ENP
Barrier Depth: 30 ft; Daily Average: 7/1/2008-10/31/2008 (Wet)

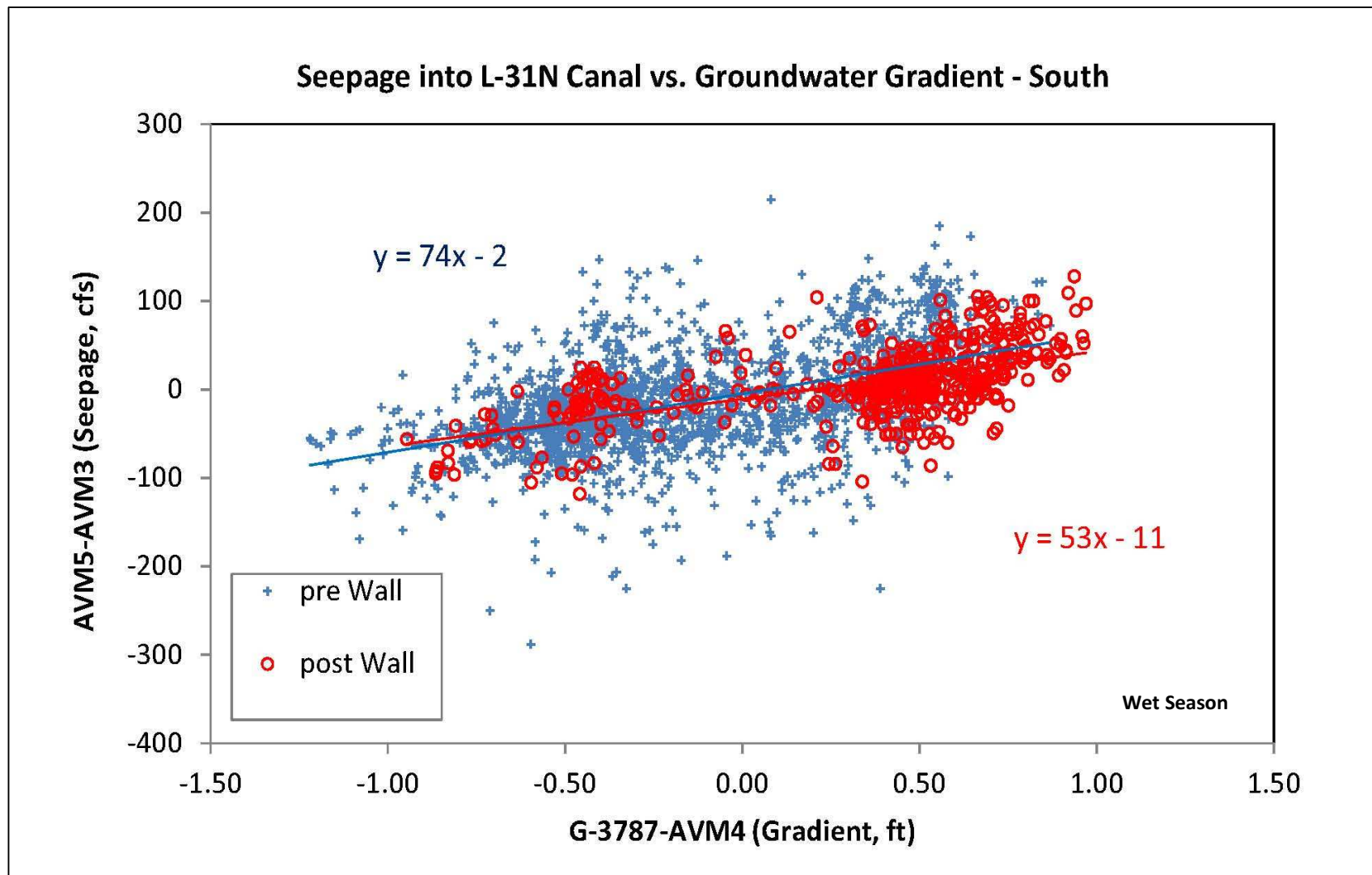
Seepage into the L-31N Canal between S-335 and Mile 3 vs. stage difference between the ENP and canal at mile 1 (with 2 miles of barrier constructed)



Seepage into the L-31N Canal between S-335 and Mile 3 vs. stage difference between the ENP and canal Mile 1



Seepage into the L-31N Canal between Mile 3 and Mile 5 vs. stage difference between the ENP and canal at mile 4 (with 2 miles of barrier constructed)



Seepage into the L-31N Canal between Mile 3 and Mile 5
vs. stage difference between the ENP and canal Mile 4

