

MOSAIC
CONSOLIDATED DEVELOPMENT ORDER
2004 -2005 COMPLIANCE-RELATED ACTIVITIES

DBH TREE REPLACEMENT SUMMARY

Section 4 of the Hillsborough County Natural Resource Permit states “A total of 1,135 inches DBH (tree trunk diameter at 4 1/2 feet in height) of replacement trees shall be required for installation at time of the (Certificate of Occupancy / As Built) inspection.”

Beginning in April 2002 to present, a variety of tree replacement techniques and species mixes have been utilized to achieve compliance with this requirement. Following an initial tree spading effort of trees from the stack expansion area, additional plantings of nursery stock have been installed. Replacement tree species include *Acer rubrum*, *Quercus virginicus*, *Quercus laurifolia*, *Liquidambar styraciflua* and *Fraxinus carolinianus*. All trees met or exceeded the minimum DBH and height requirements at installation. An adaptive approach to maximizing survival of replacement trees while enhancing existing habitat was applied when selecting tree species, placement, and planting area densities. At present, Mosaic has exceeded the minimum tree replacement requirements while improving habitat and aesthetics at locations throughout the stack buffer and restoration areas.

RESTORATION AREAS WATER LEVELS SUMMARY

In response to recommendations from the 2003 Restoration Review Agency Meeting, surface water (staff guage) and ground water (piezometer) levels have been monitored at Northeast-A, Northwest-A North, and Northwest-A South bi-weekly since April 2004. All instruments were surveyed relative to National Geodetic Vertical Datum (1929). Figures 1 through 3 show hydrographs for the three sites. In October 2005, the existing piezometers were supplemented with datalogging piezometers. Figure 4 shows groundwater data since installation for the three sites, and reveals the tidal influence on groundwater levels.

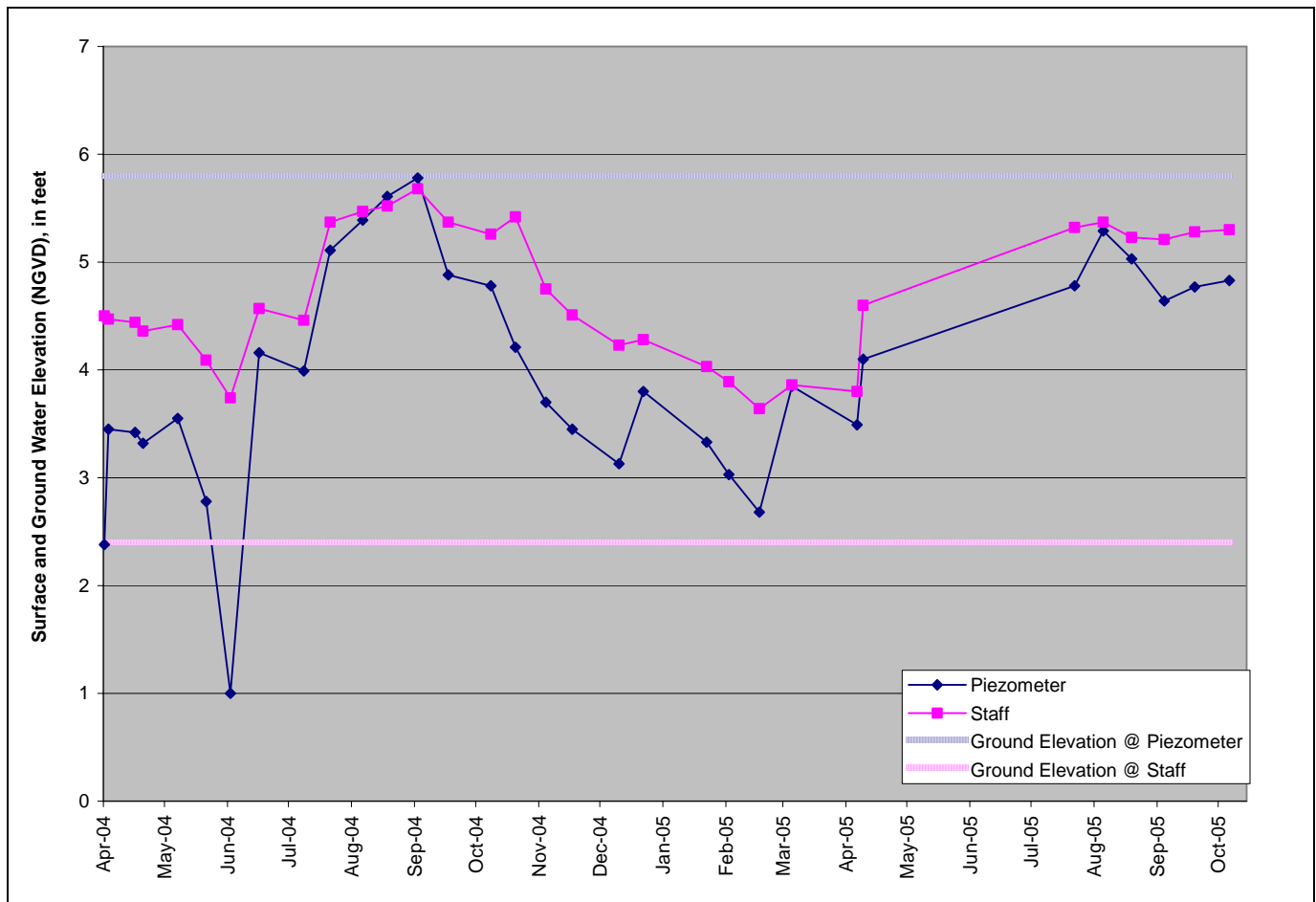


Figure 1. Surface- and Groundwater elevations for Restoration Area Northeast-A, Mosaic Riverview Plant, Hillsborough County, FL. From April 2004 through October 2005

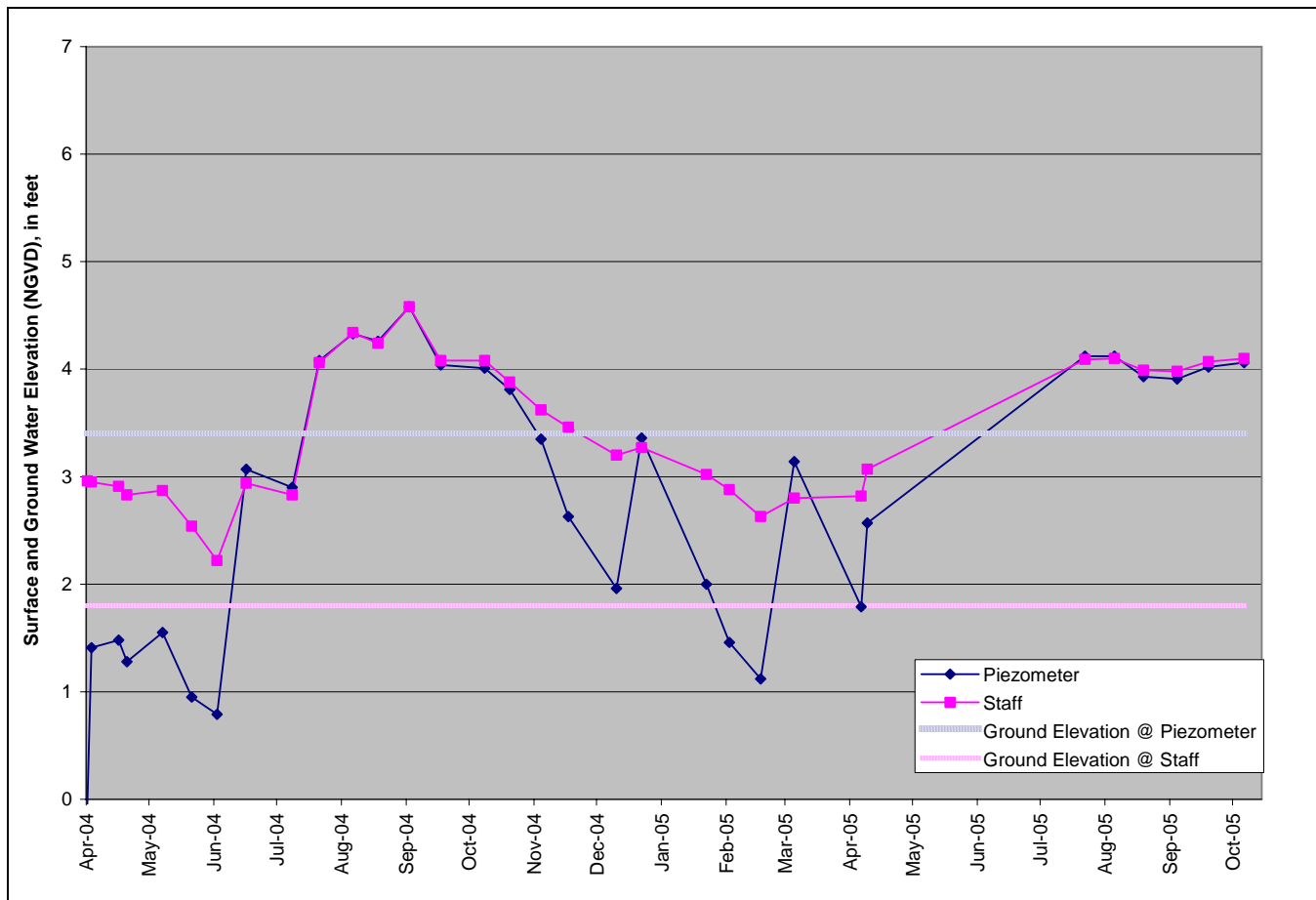


Figure 2. . Surface- and Groundwater elevations for Restoration Area Northwest-A North, Mosaic Riverview Plant, Hillsborough County, FL. From April 2004 through October 2005

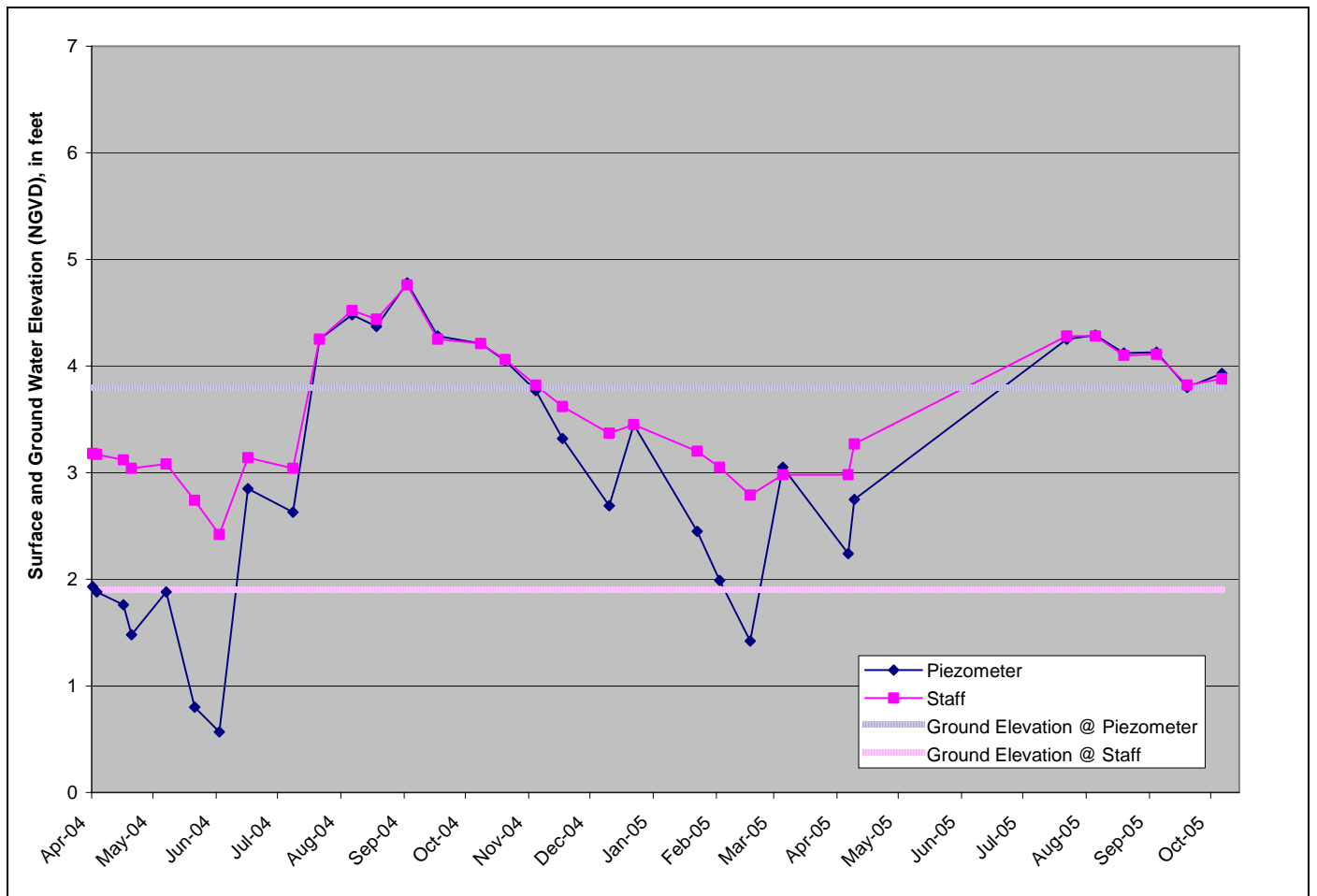


Figure 3. . Surface- and Groundwater elevations for Restoration Area Northwest-A South, Mosaic Riverview Plant, Hillsborough County, FL. From April 2004 through October 2005

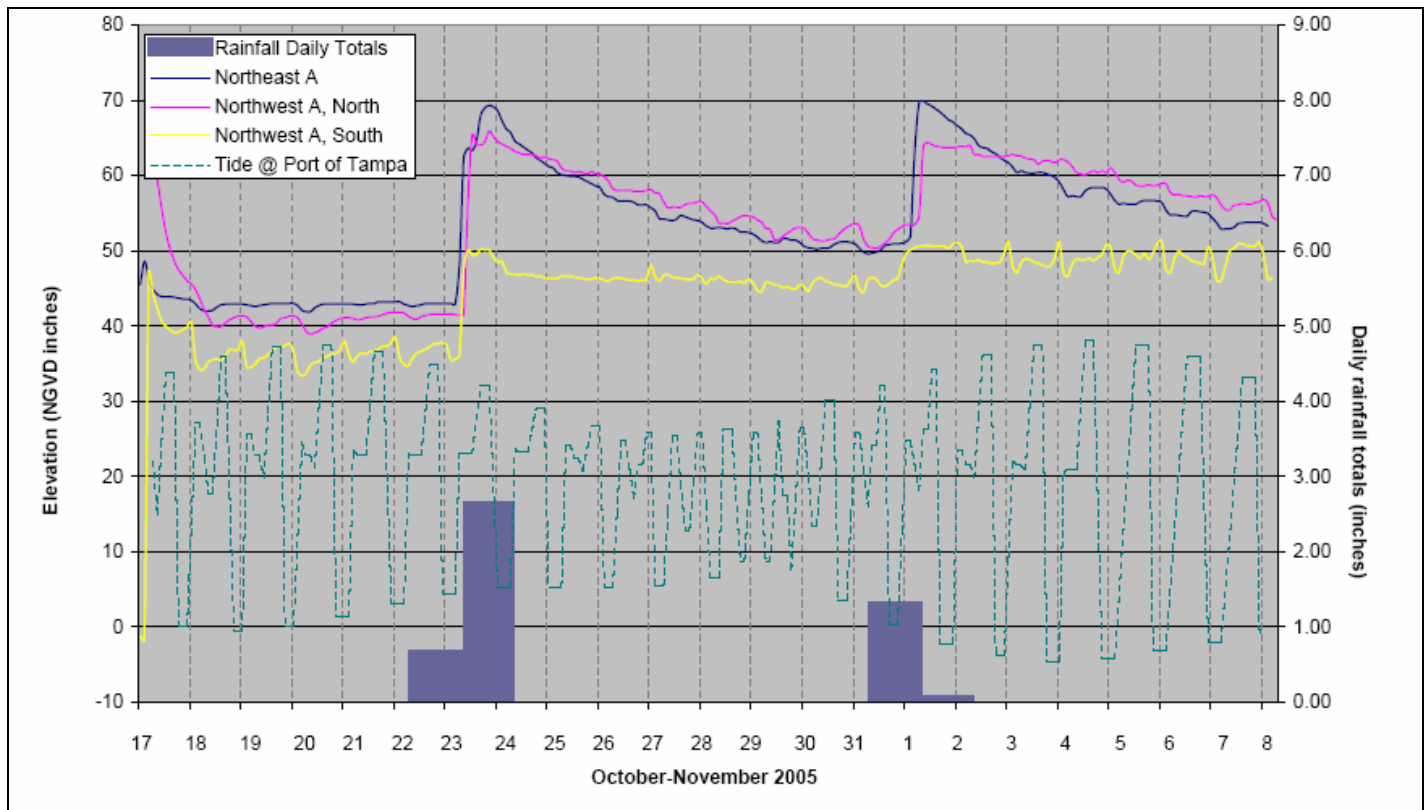


Figure 4. Port of Tampa tides, daily rainfall totals, and groundwater elevations for three Northeast A, Northwest A North, and Northwest A South Restoration Areas, Mosaic Riverview Plant, Hillsborough County, FL., from October 17, 2005 through November 8 2005. Groundwater sampling interval = 2 hours.