Figure 2.3-32 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 1 of 2) High Tide

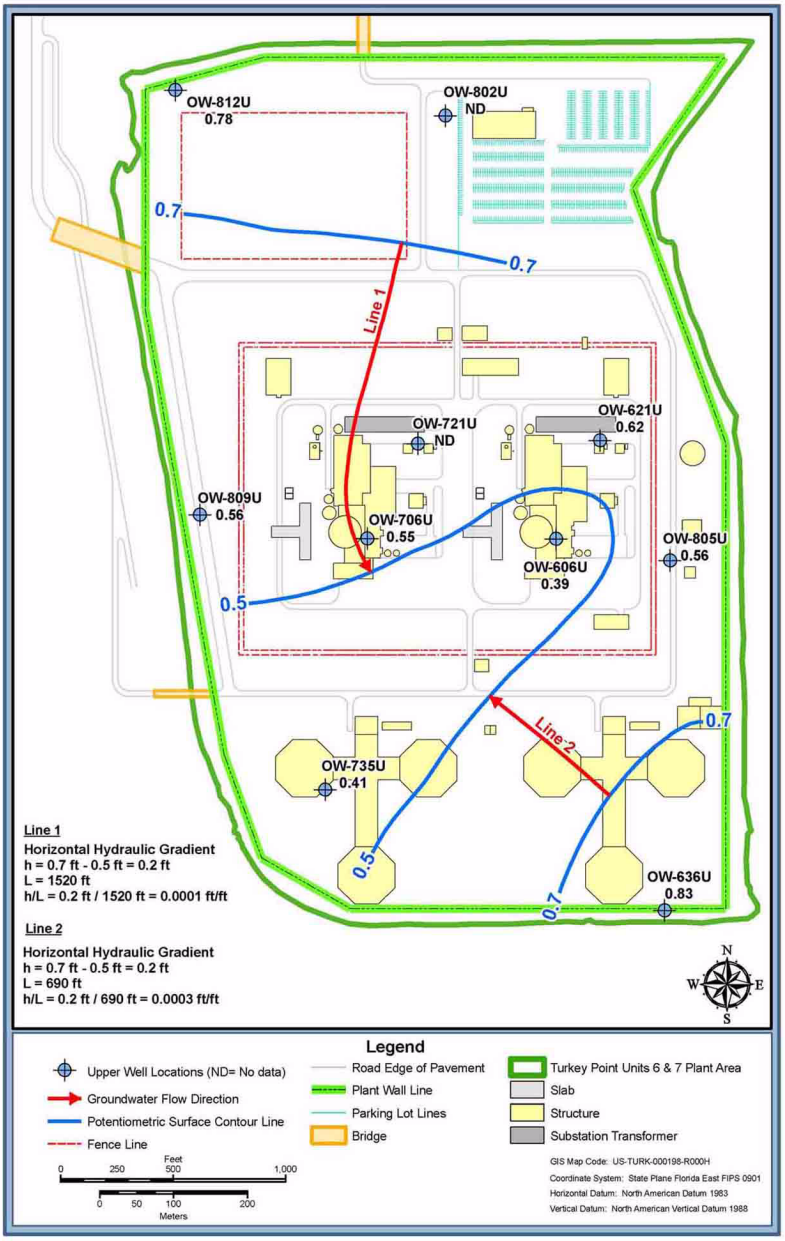


Figure 2.3-32 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 2 of 2) Low Tide

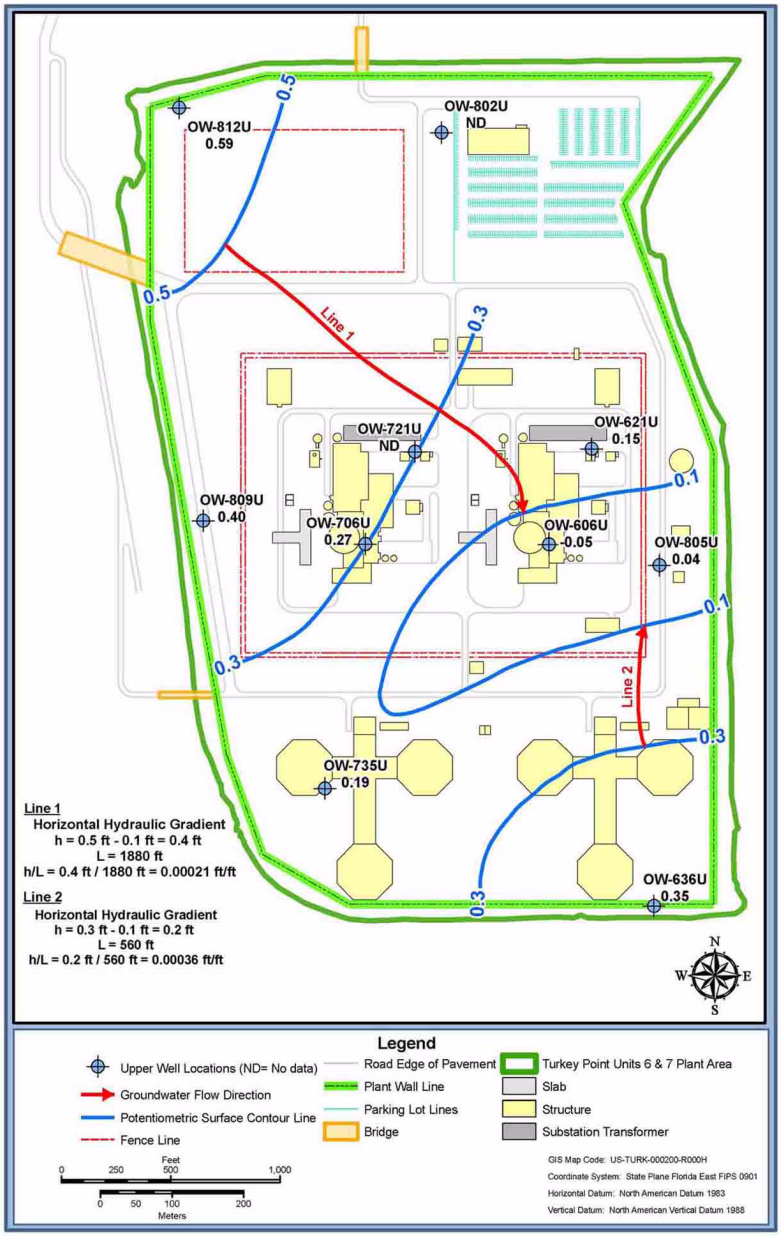


Figure 2.3-33 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, October 5, 2008 (Sheet 1 of 2) High Tide

Figure 2.3-33 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, October 5, 2008 (Sheet 2 of 2) Low Tide

Figure 2.3-34 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 20-21, 2009 (Sheet 1 of 2) High Tide

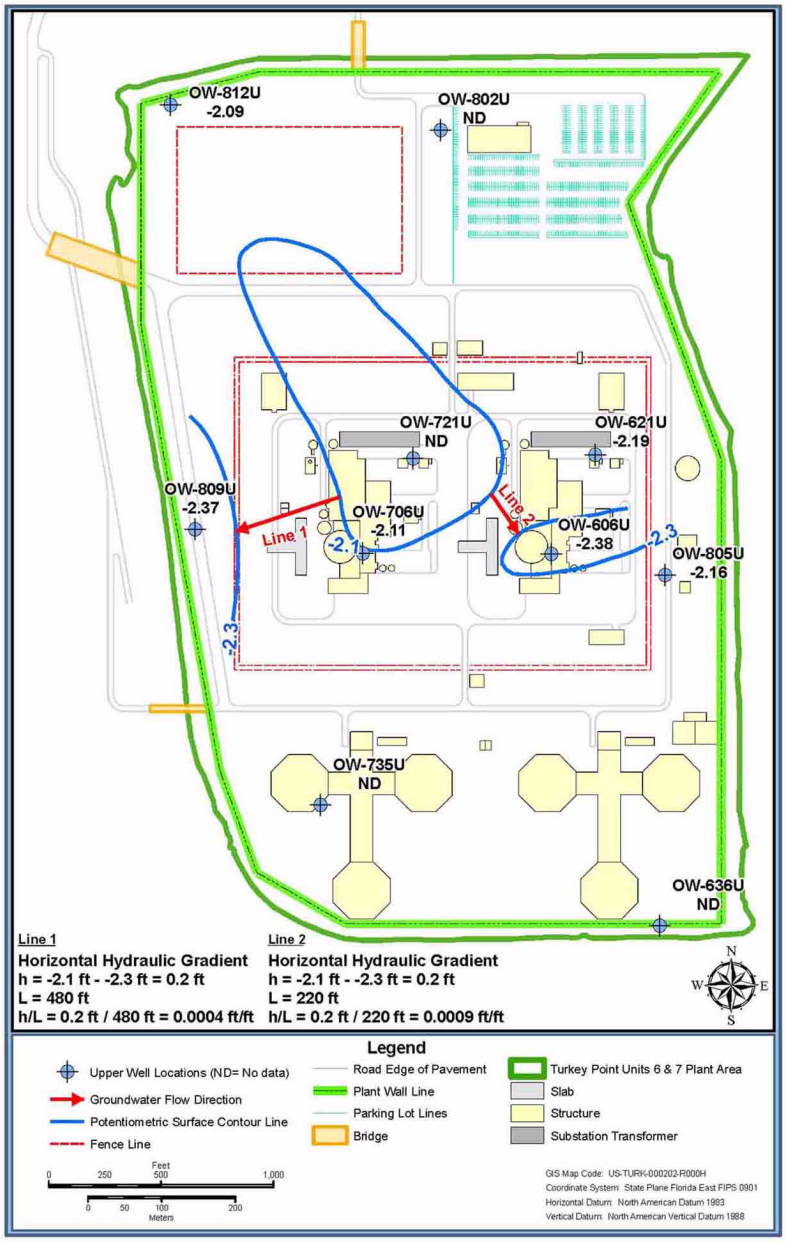


Figure 2.3-34 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 20-21, 2009 (Sheet 2 of 2) Low Tide

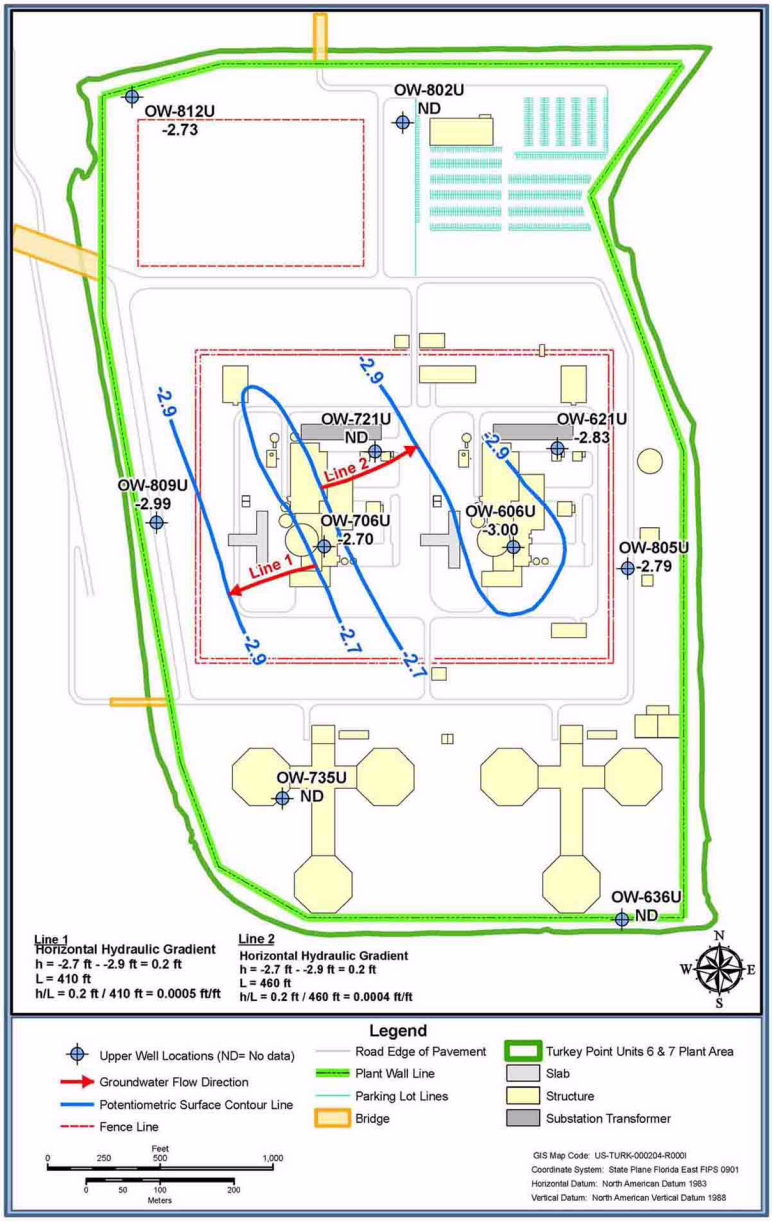


Figure 2.3-35 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 20-21, 2009 (Sheet 1 of 2) High Tide

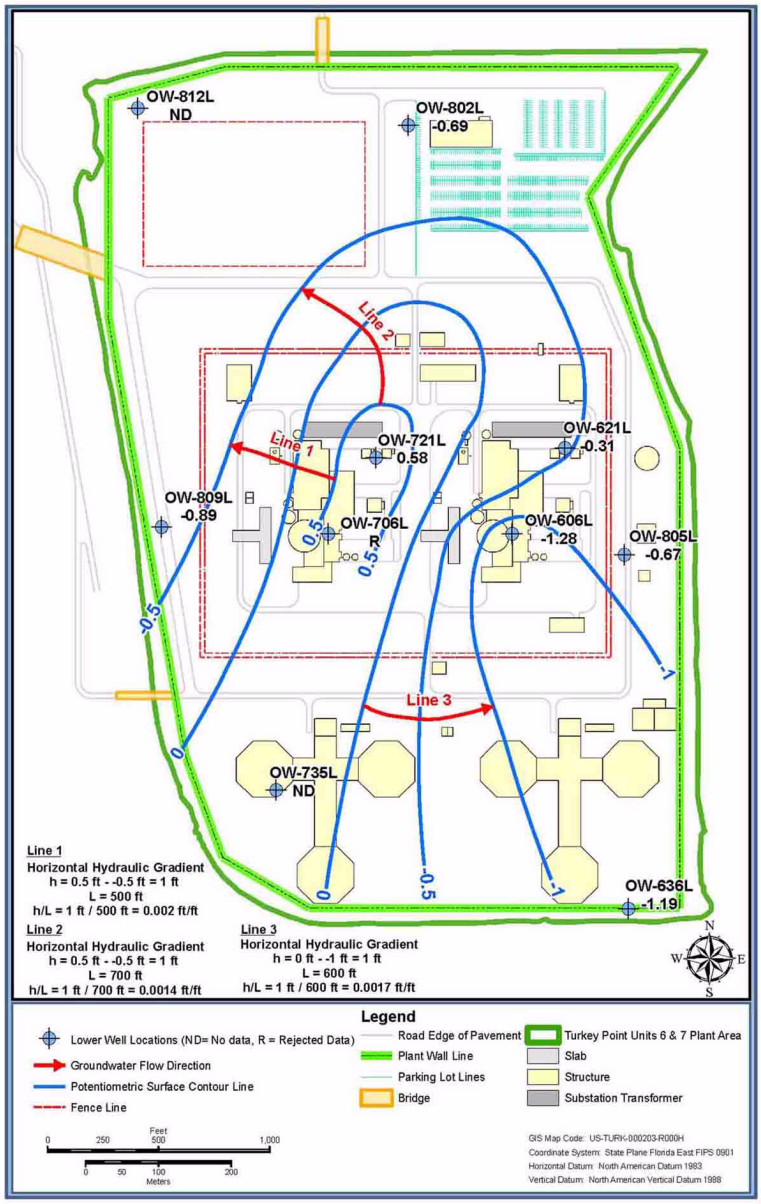


Figure 2.3-35 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 20-21, 2009 (Sheet 2 of 2) Low Tide

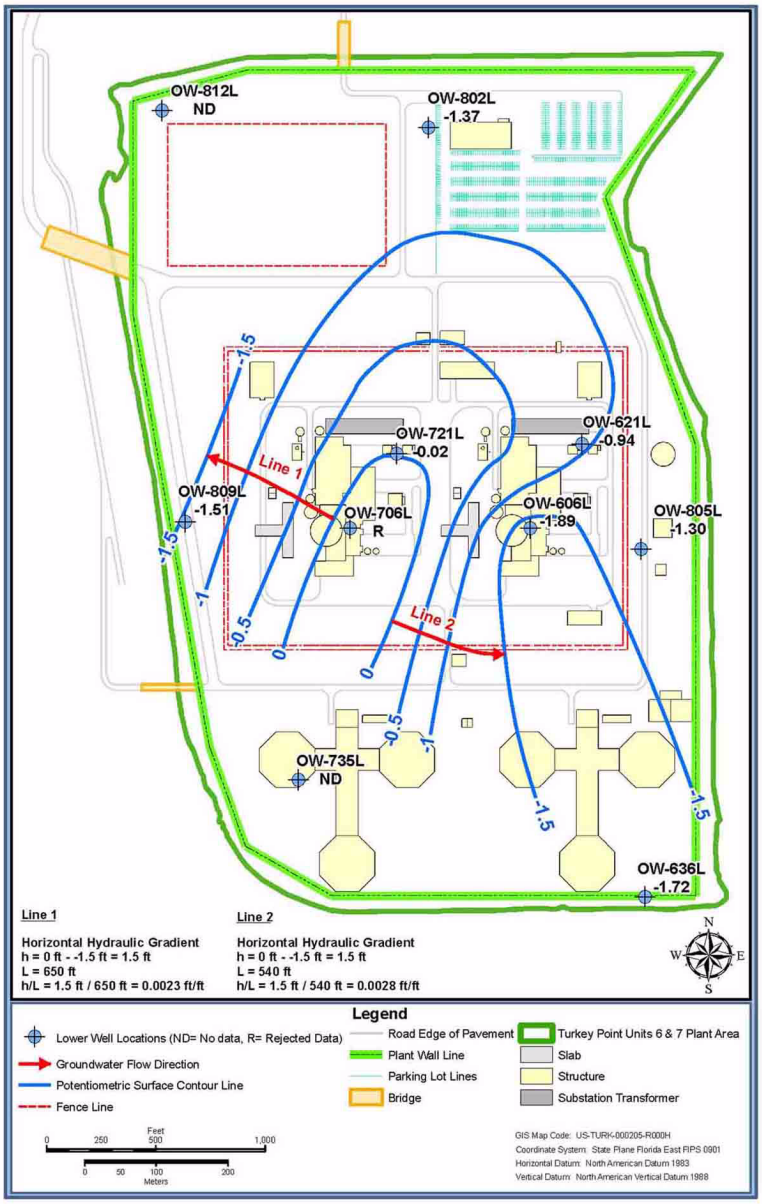
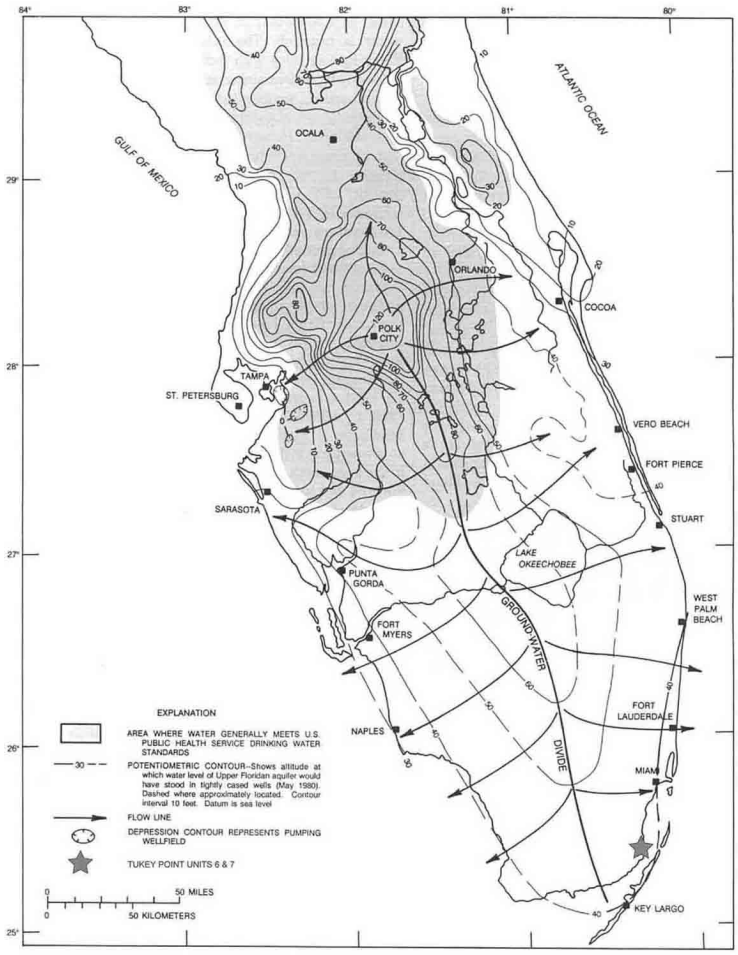


Figure 2.3-36 May 1980 Upper Floridan Aquifer Potentiometric Surface Map



Modified from Meyer 1989

Figure 2.3-37 Observation Wells and Surface Water Monitoring Locations in the Vicinity of the Turkey Point Plant Property

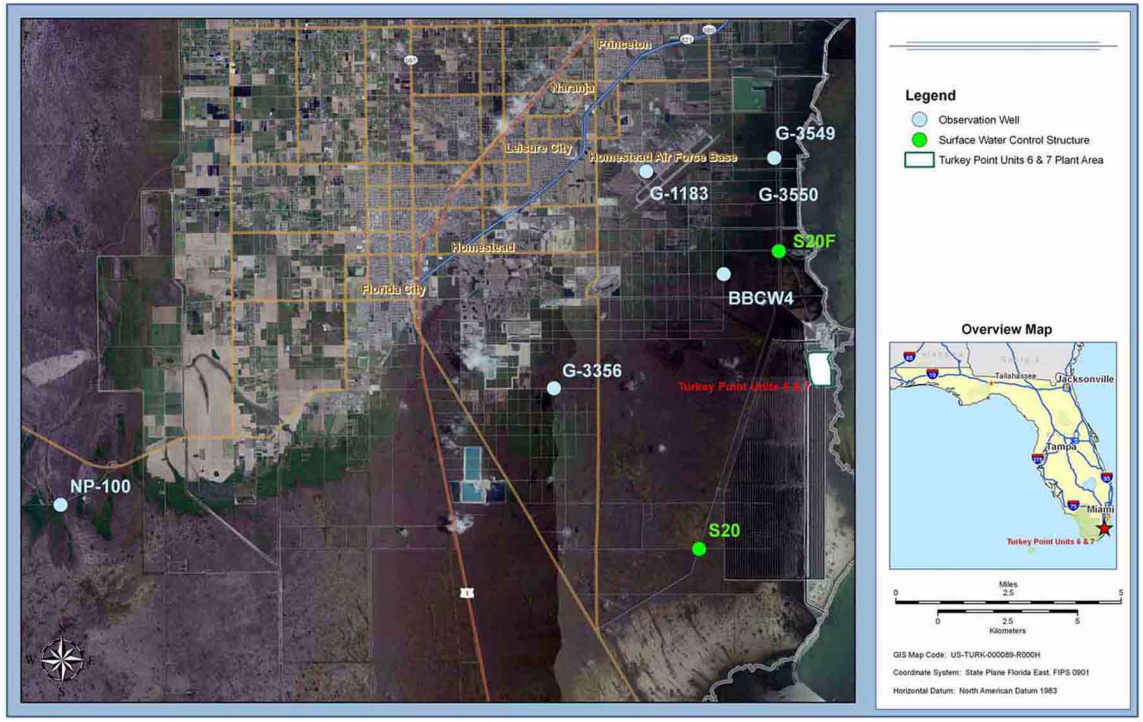
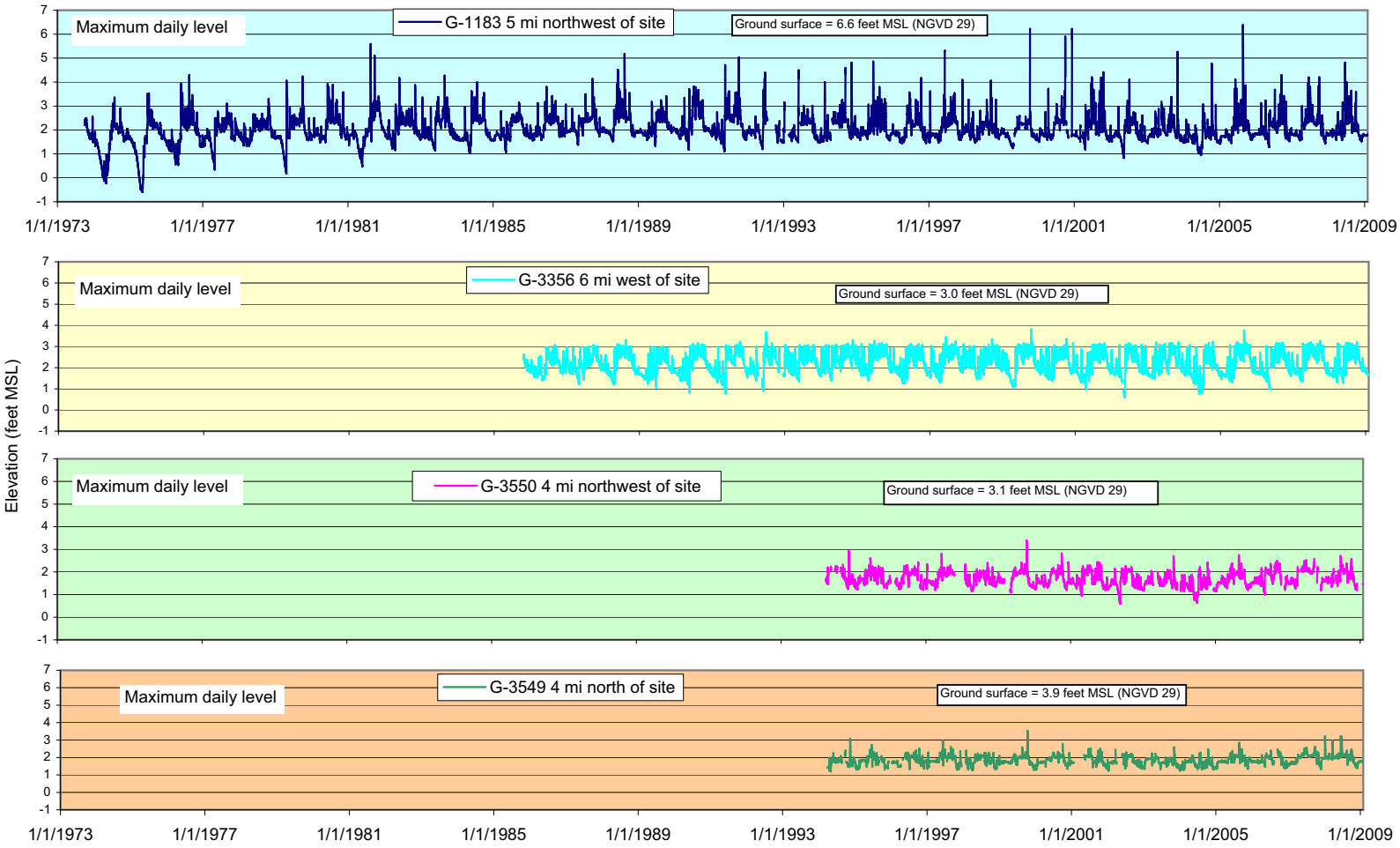
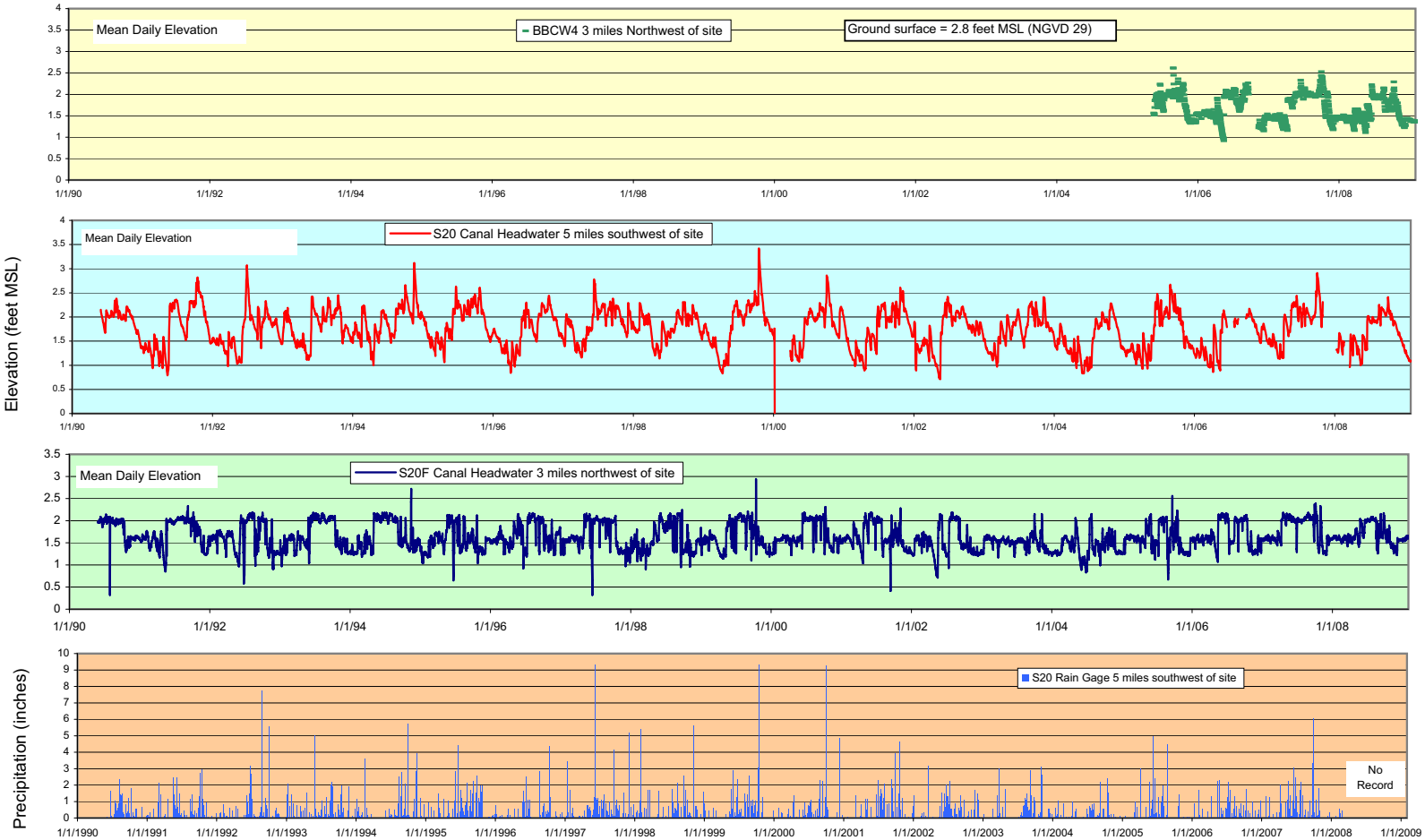


Figure 2.3-38 Hydrographs of U.S. Geological Survey Wells in the Biscayne Aquifer



Reference USGS 2009
Hydrographs include data through 1/31/2009, additional data is available through USGS 2009.

Figure 2.3-39 Hydrographs of South Florida Water Management District Well and Canal Levels and Precipitation



Reference SFWMD 2009
Hydrographs include data through 1/31/2009 (3/17/2008 for S20 Rain gage), additional data is available through SFWMD 2009.

Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 1 of 11)

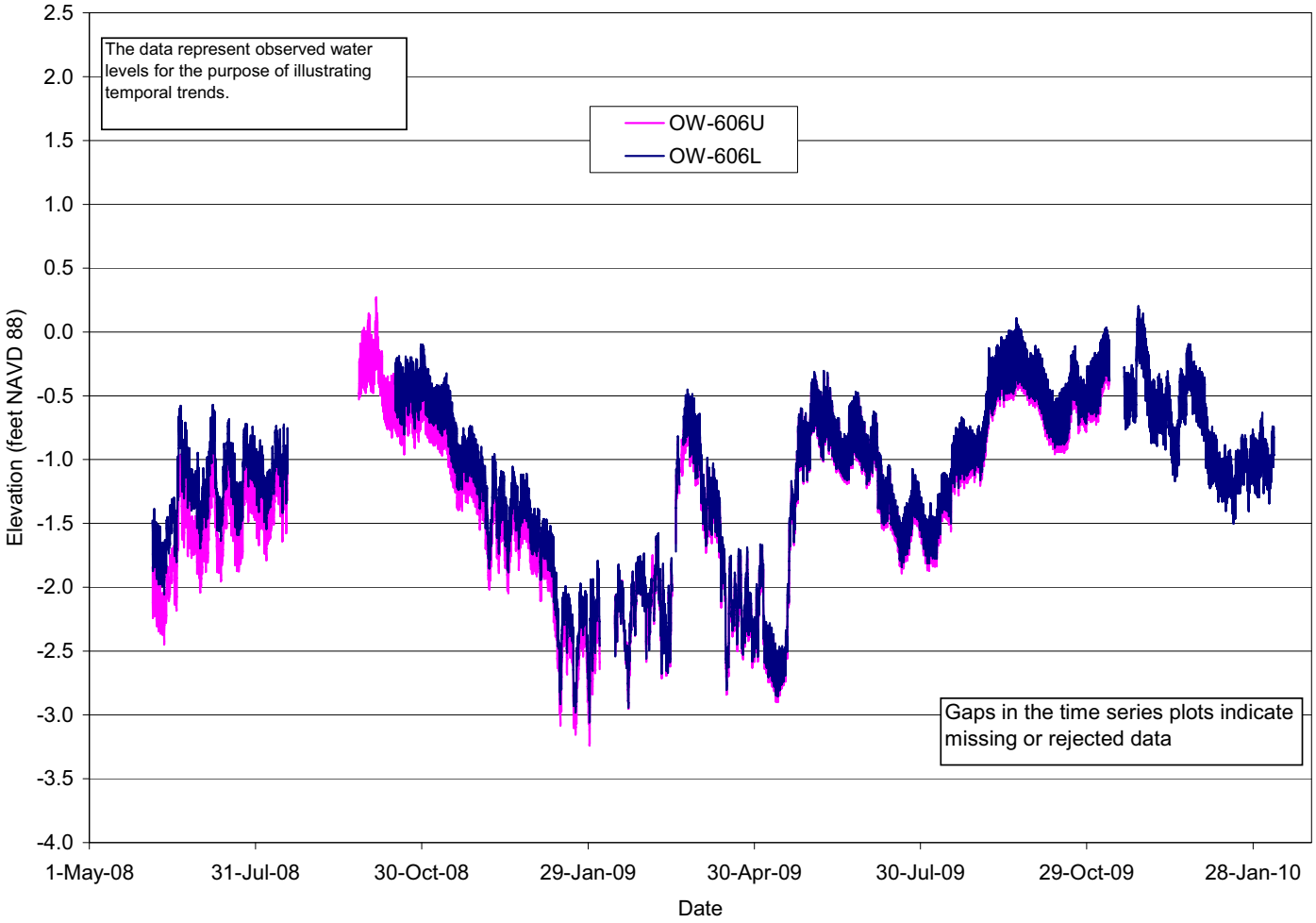


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 2 of 11)

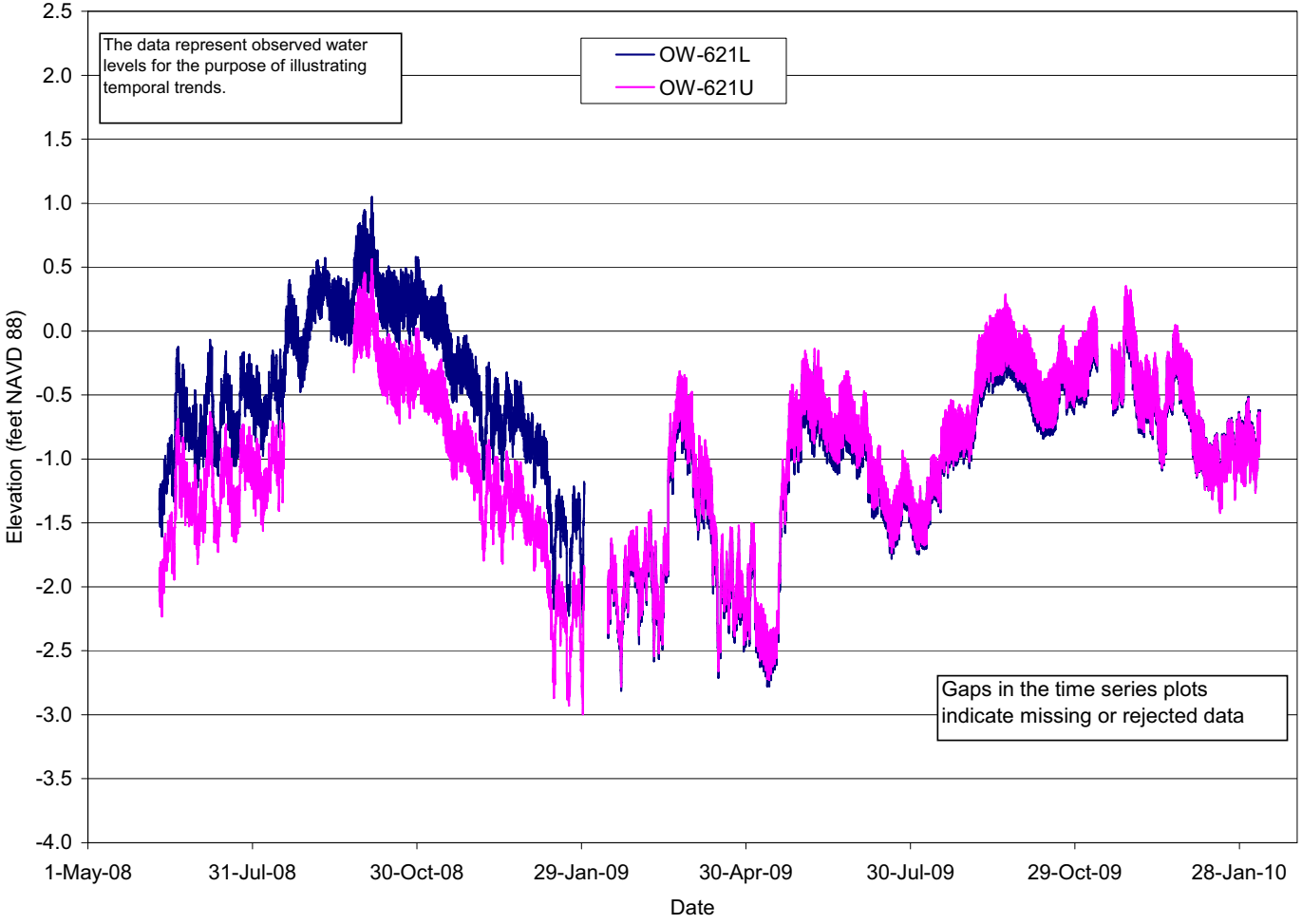


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 3 of 11)

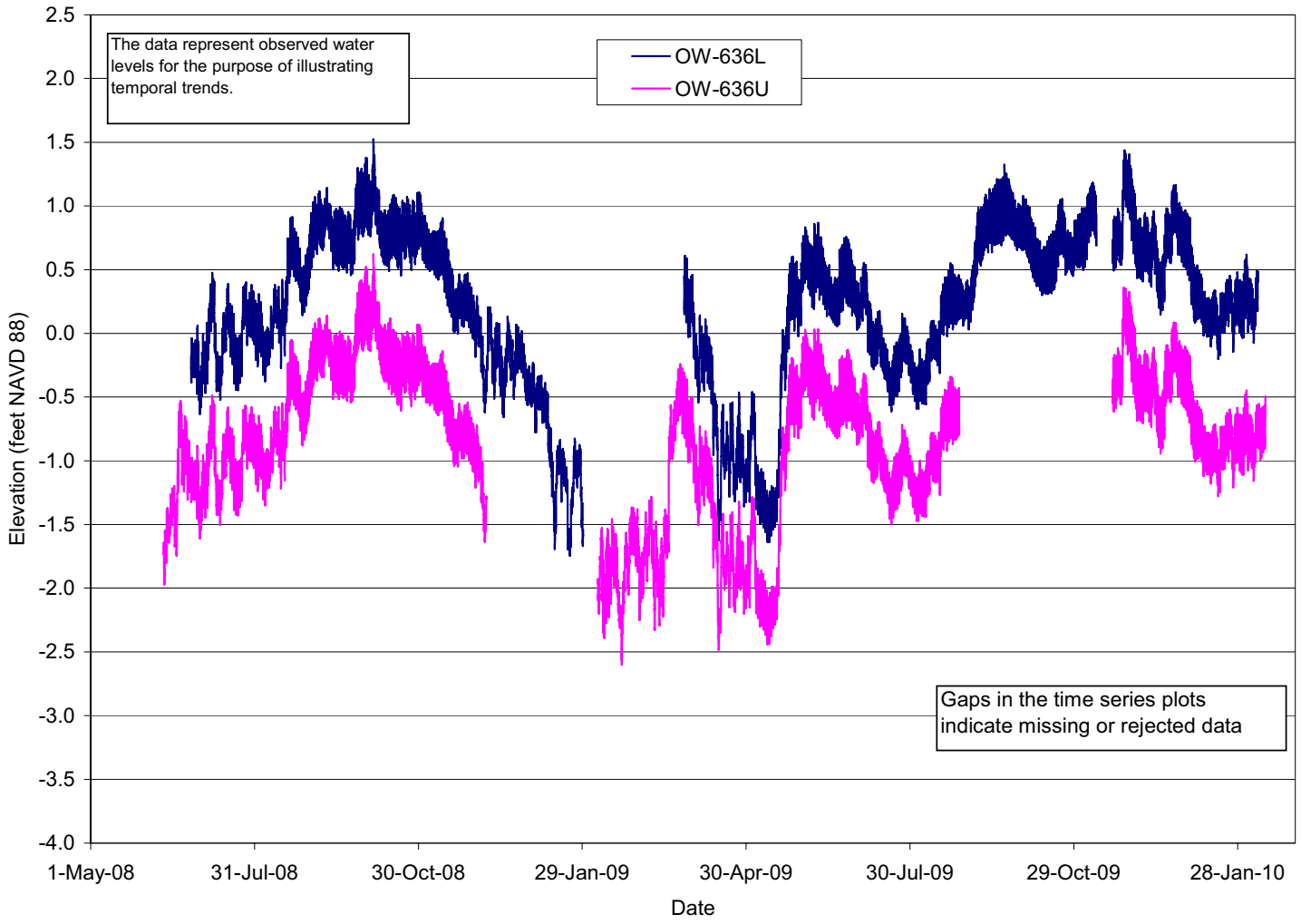


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 4 of 11)

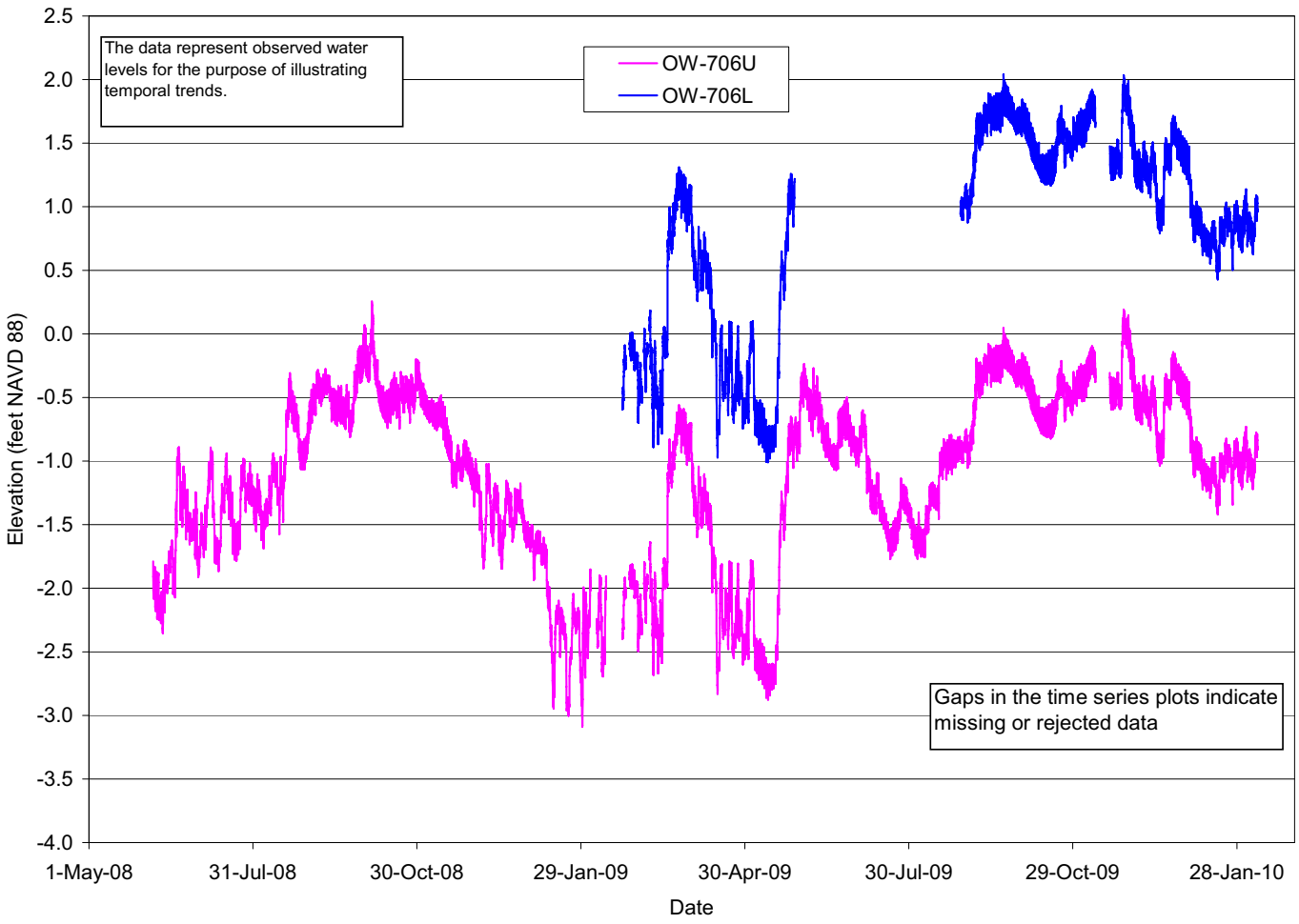


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 5 of 11)

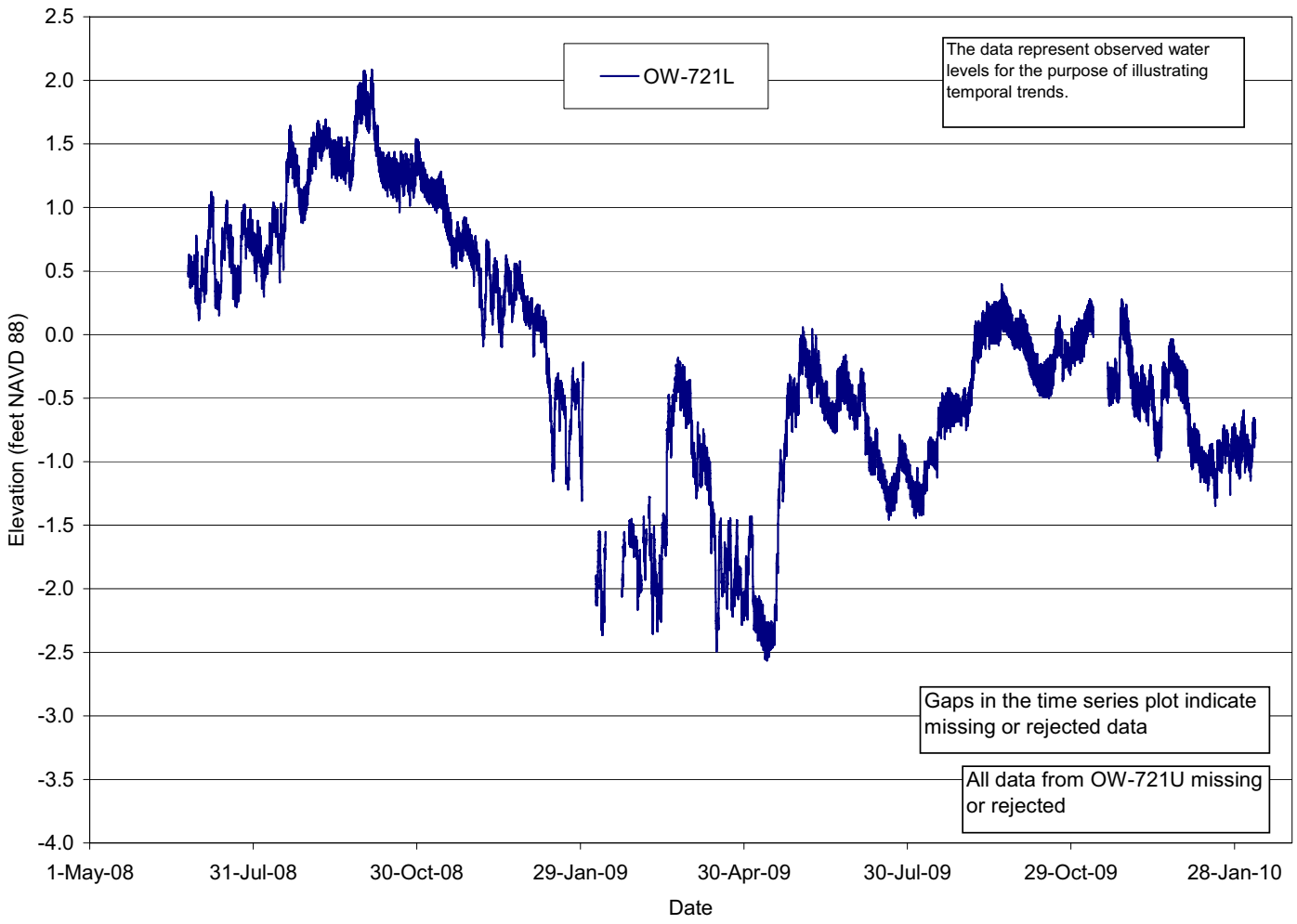


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 6 of 11)

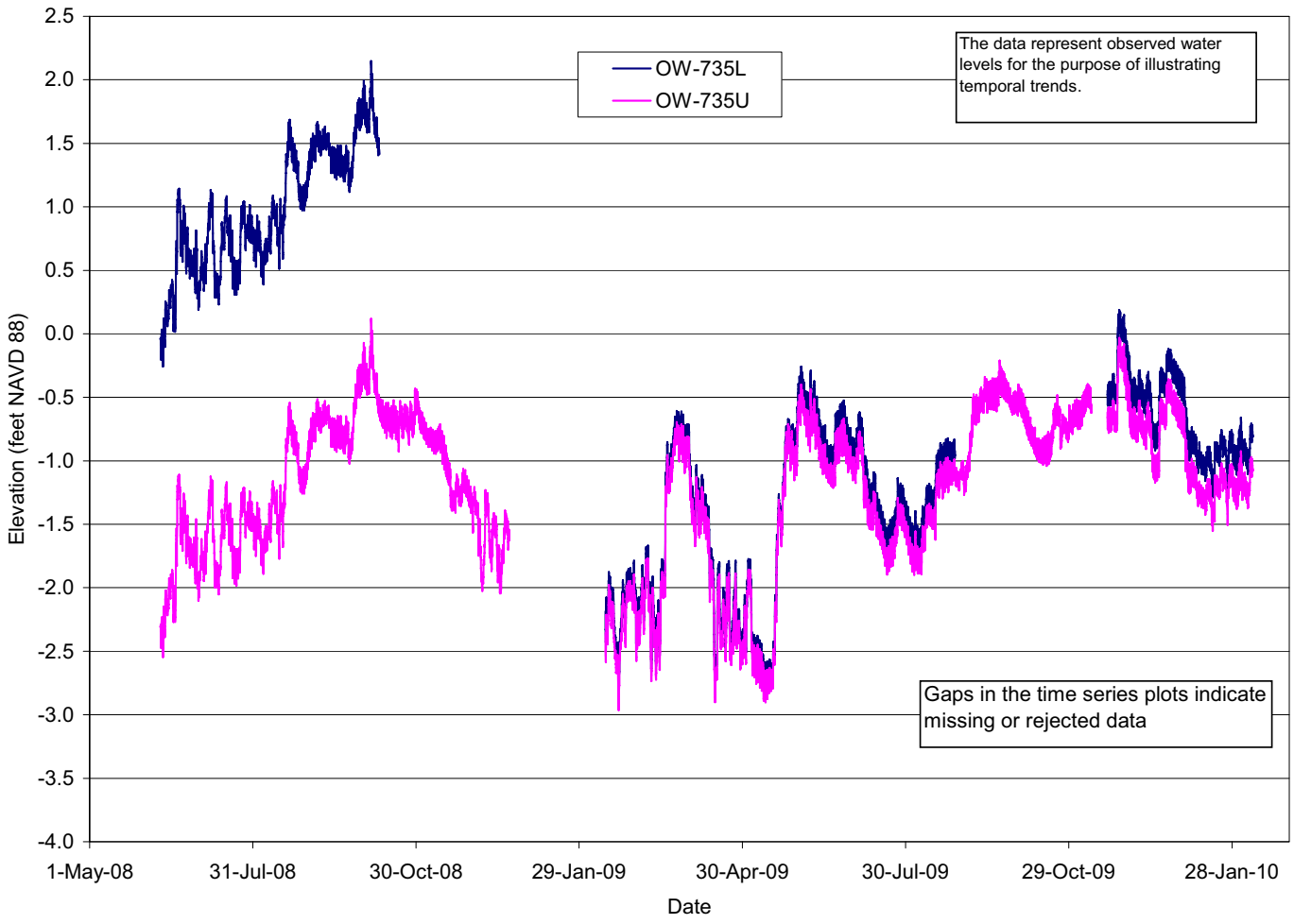


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 7 of 11)

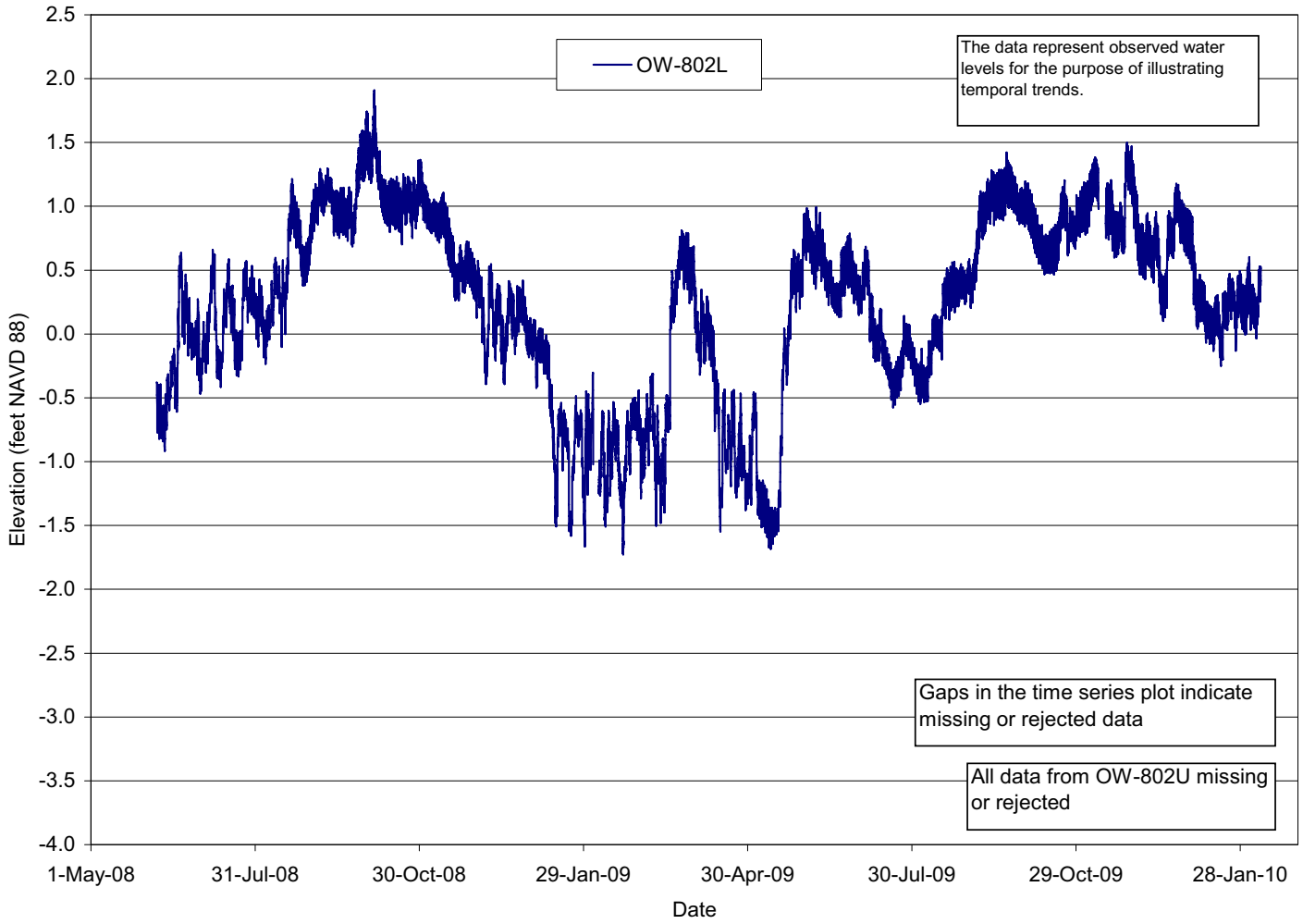


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 8 of 11)

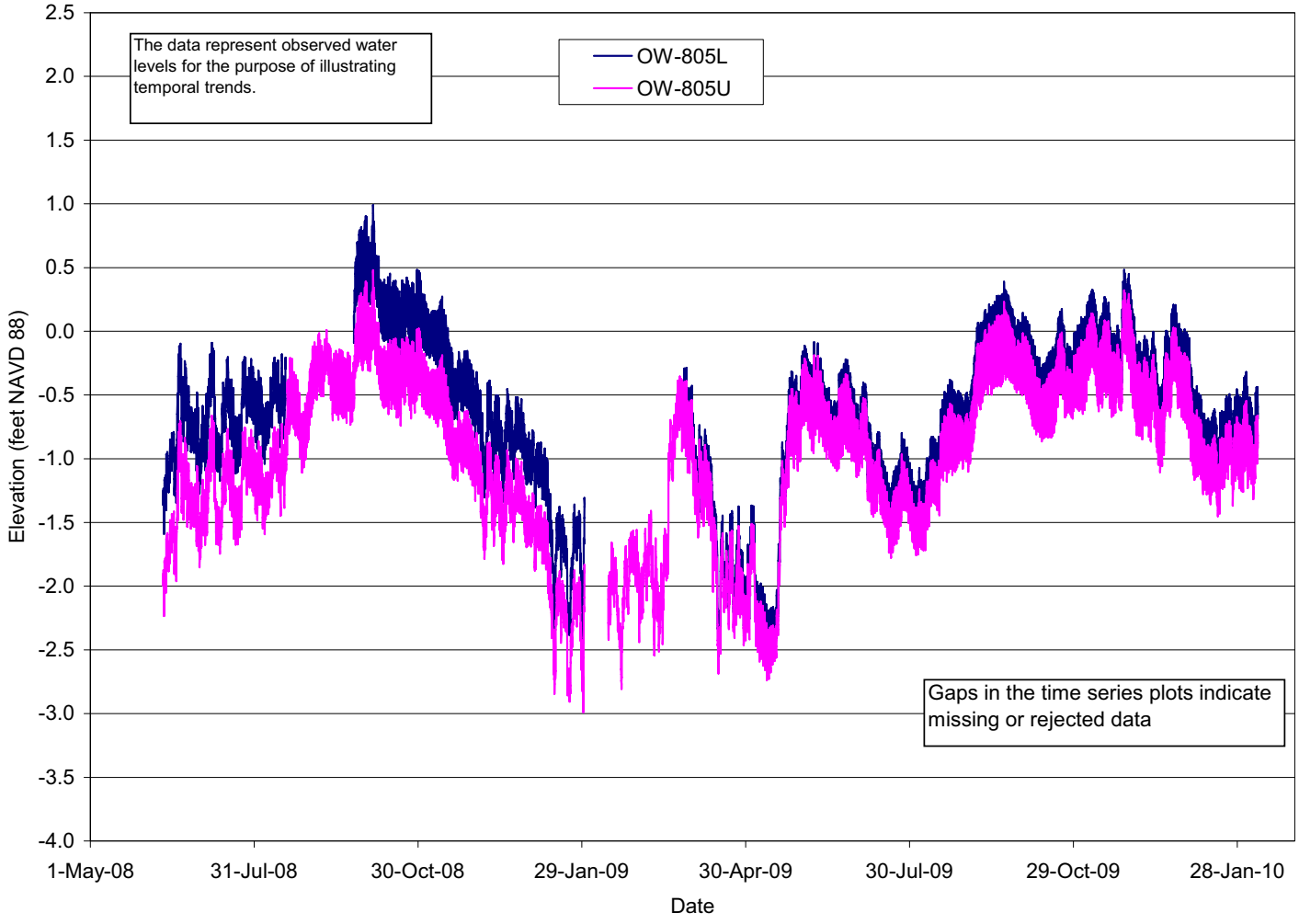


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 9 of 11)

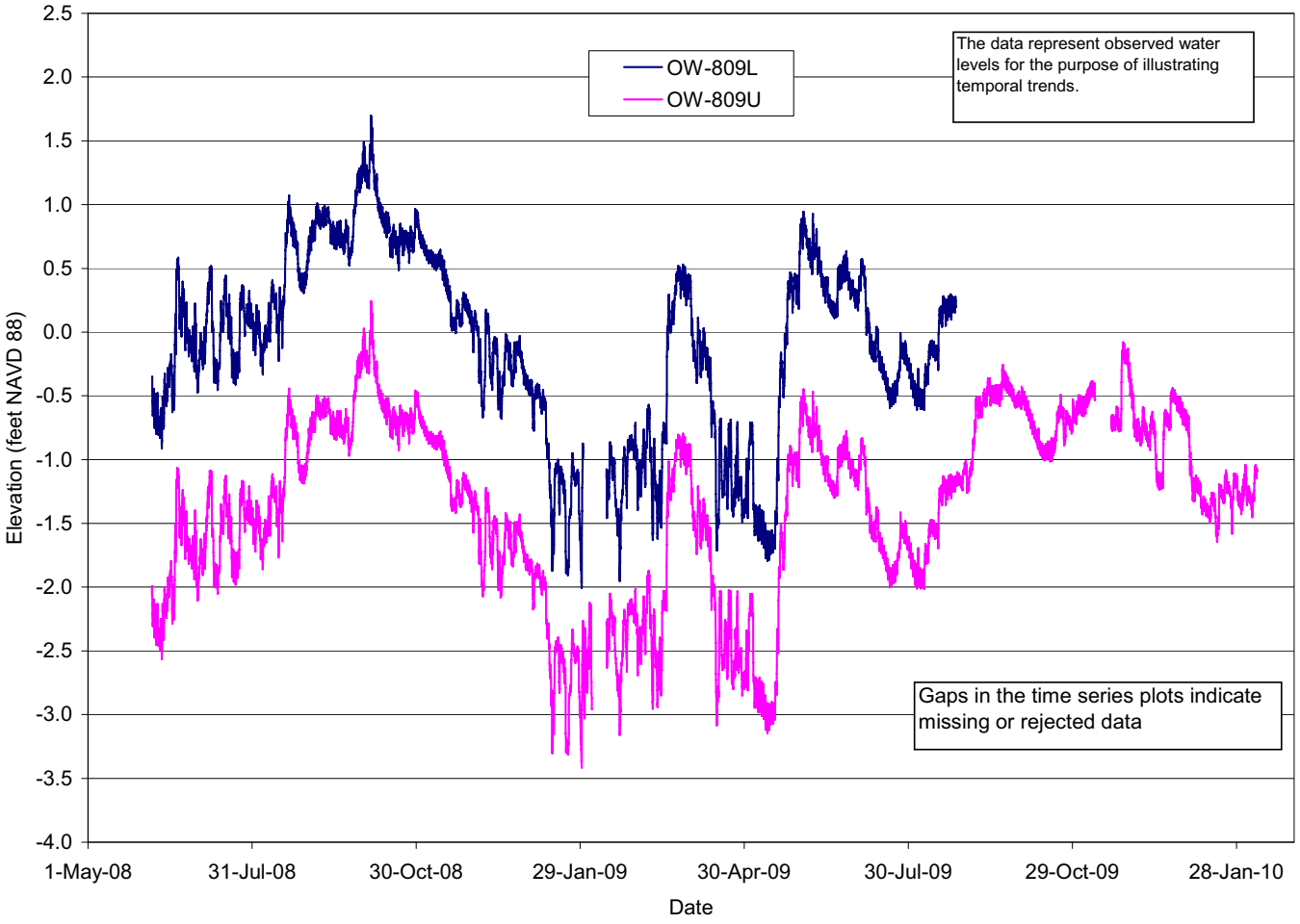


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 10 of 11)

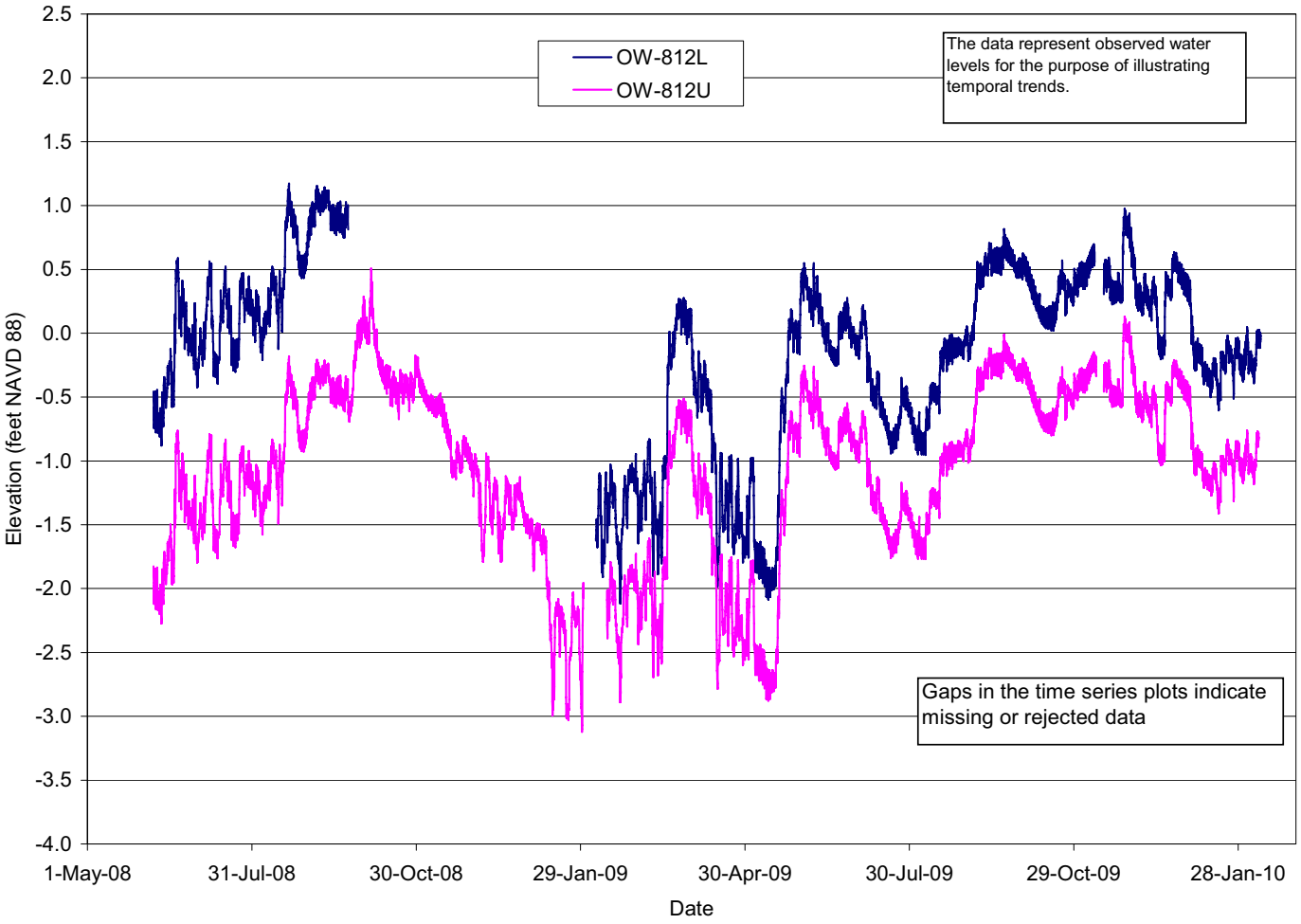


Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 11 of 11)

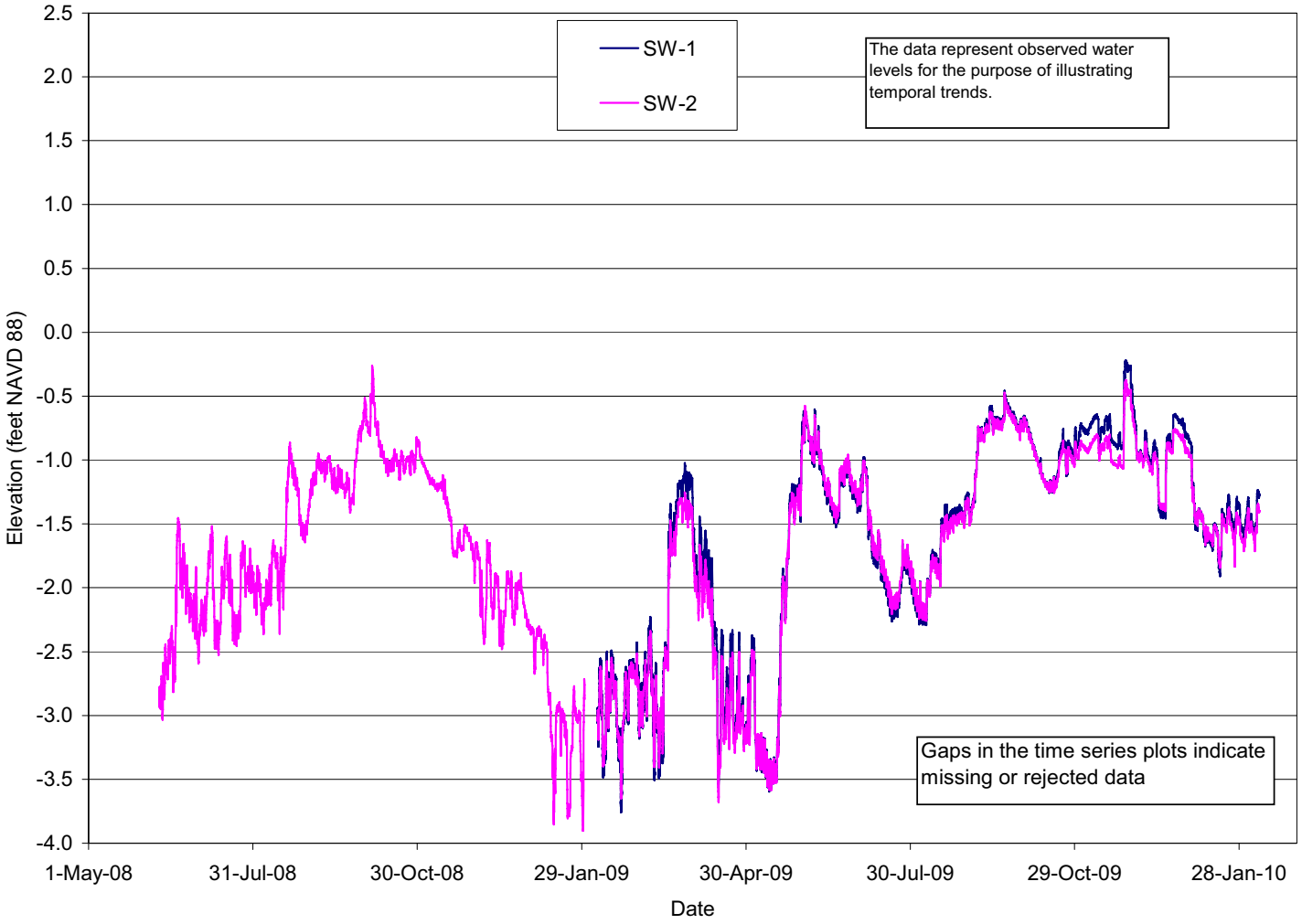
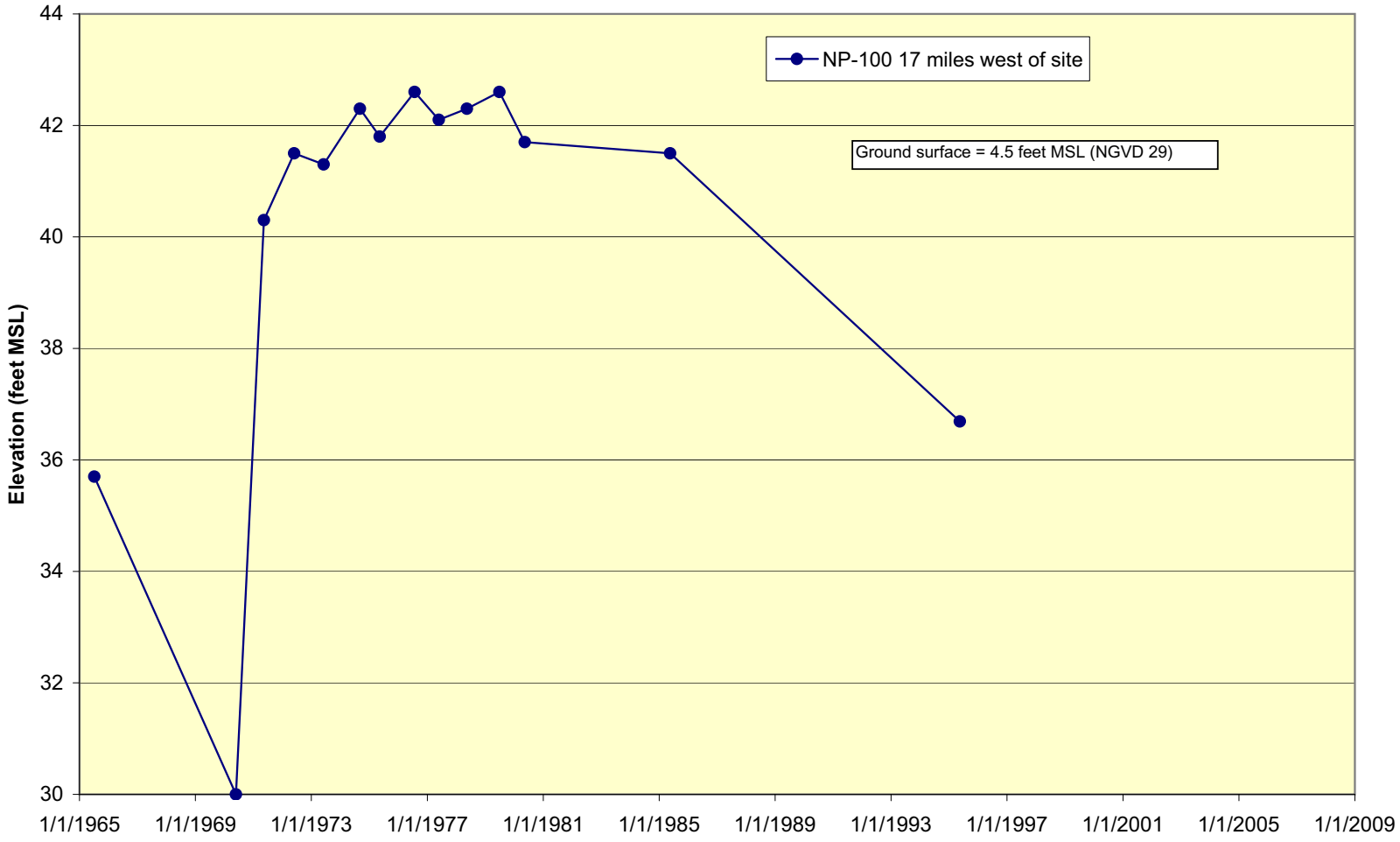


Figure 2.3-41 Hydrograph of US Geological Survey Well in the Upper Floridan Aquifer



Reference USGS 2008

Figure 2.3-42 Regional Aquifer Test Locations

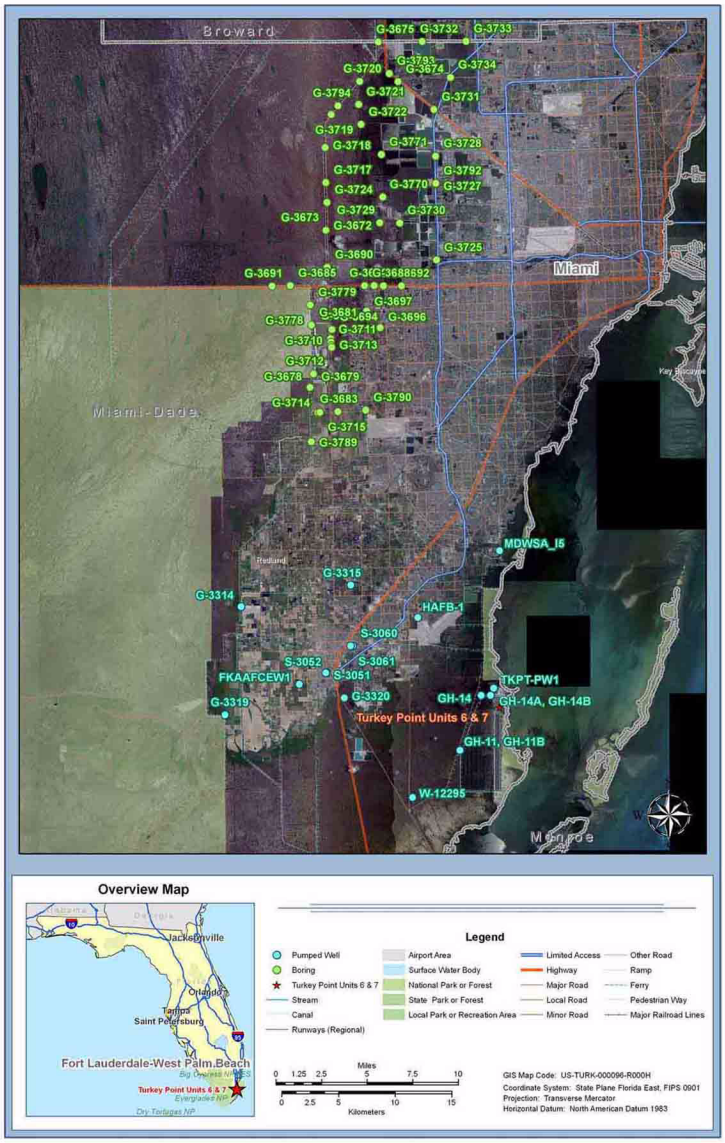
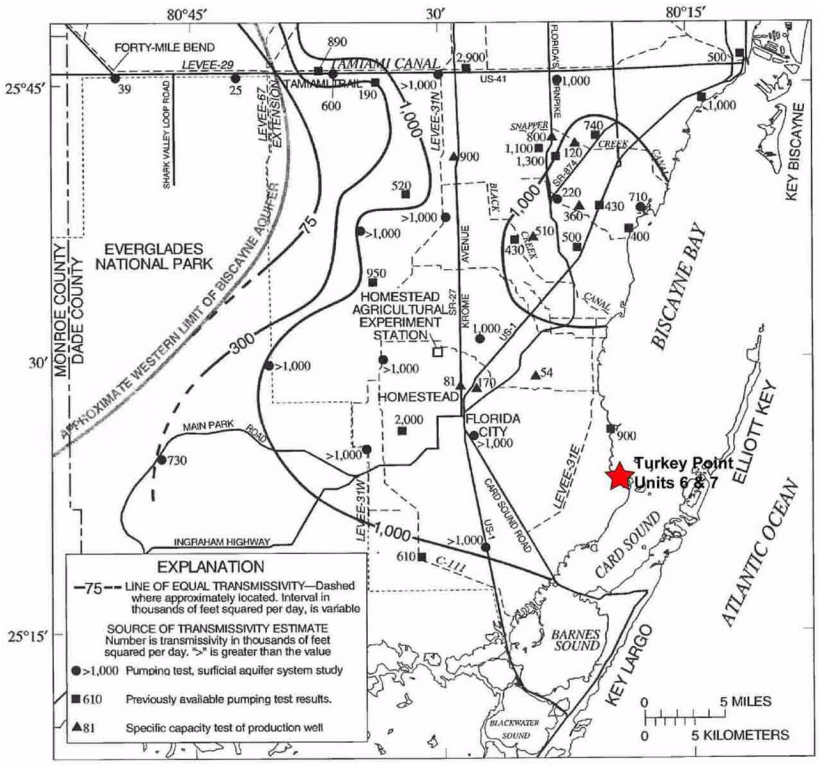
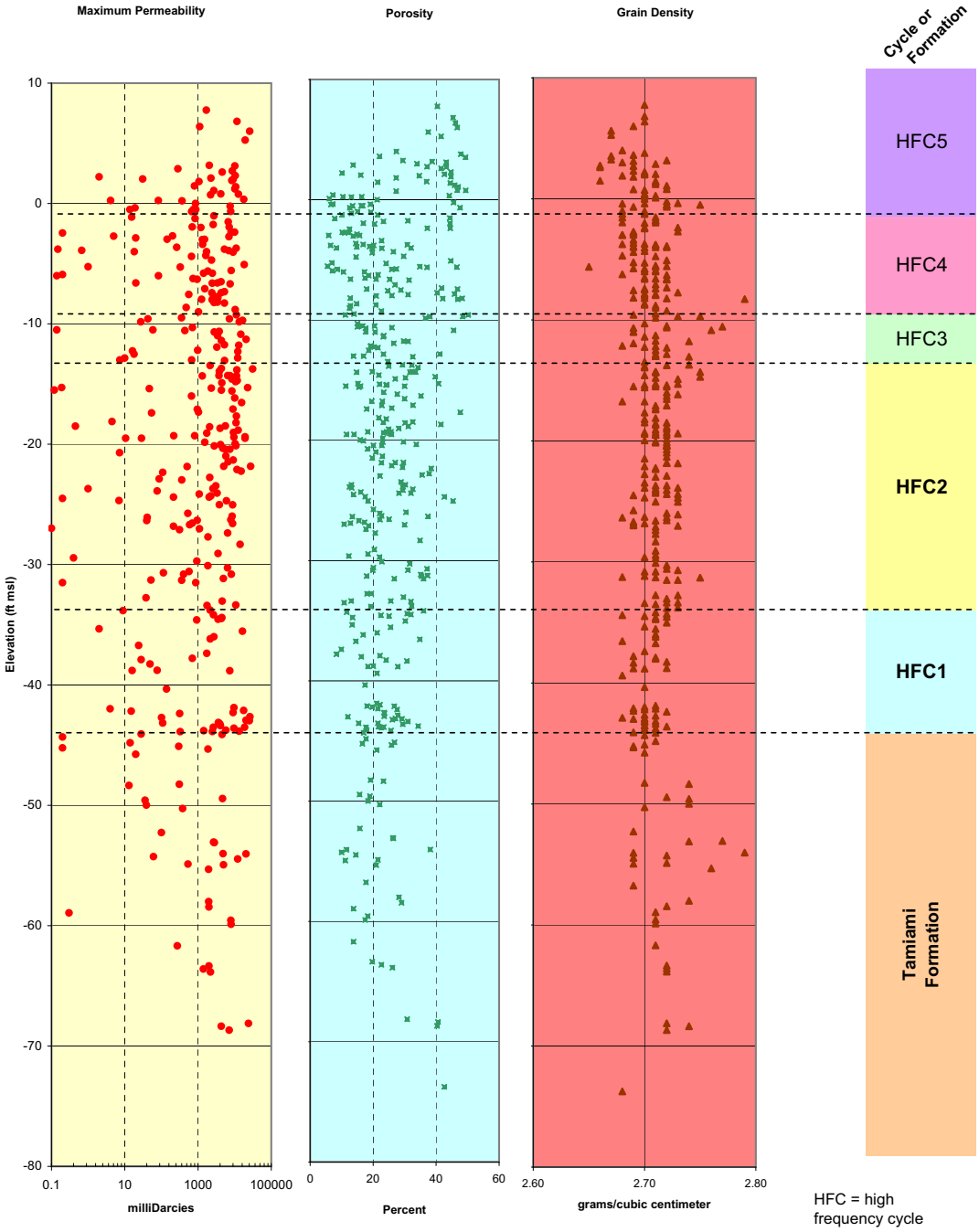


Figure 2.3-43 Biscayne Aquifer Regional Transmissivity



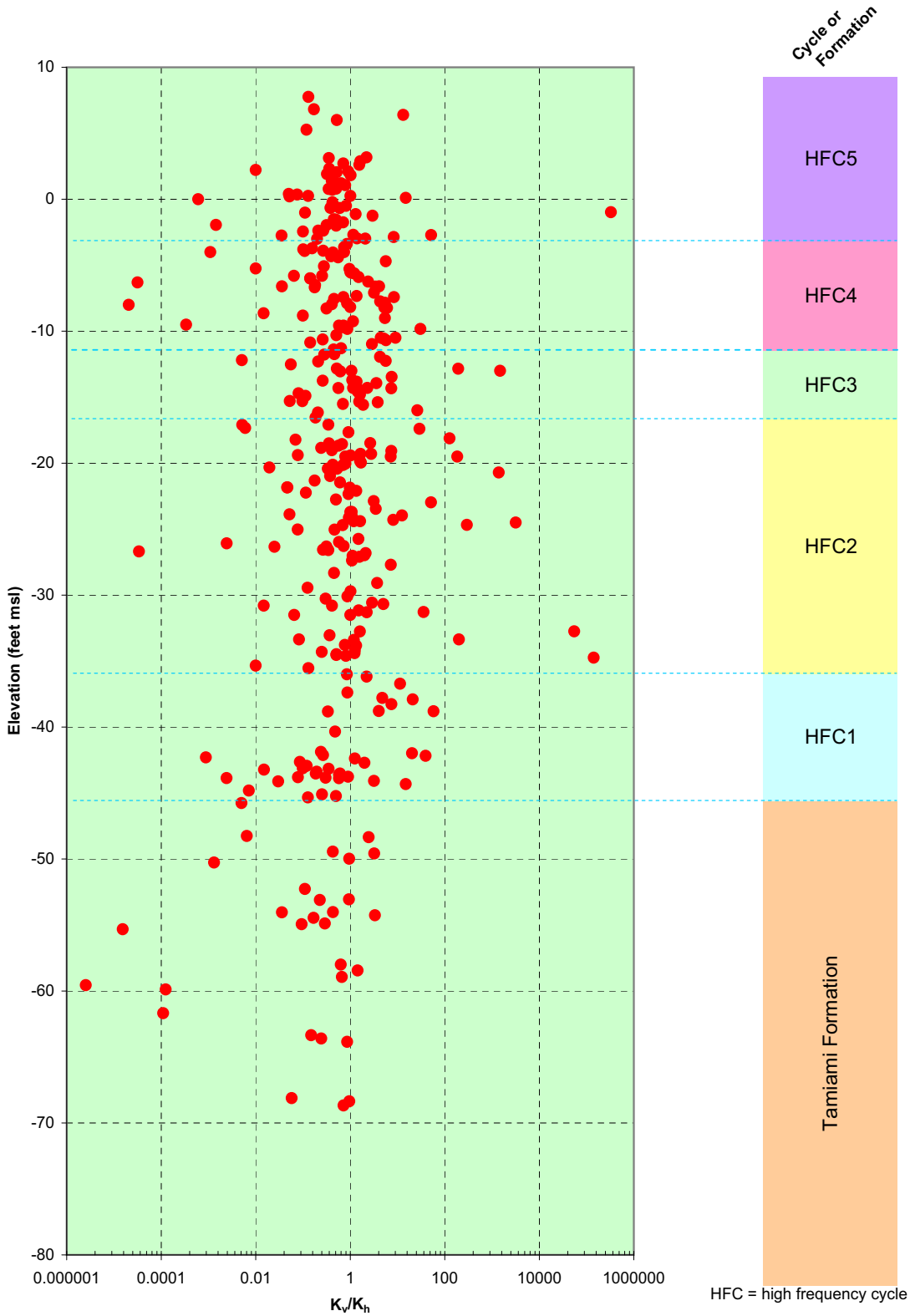
Modified from Merritt 1976

Figure 2.3-44 Formation Properties from Rock Core Testing



Data Source Table 2.3-18

Figure 2.3-45 Vertical Anisotropy Ratio from Rock Core Testing



Data Source Table 2.3-18

Figure 2.3-46 Aquifer Pumping Test Location Plan

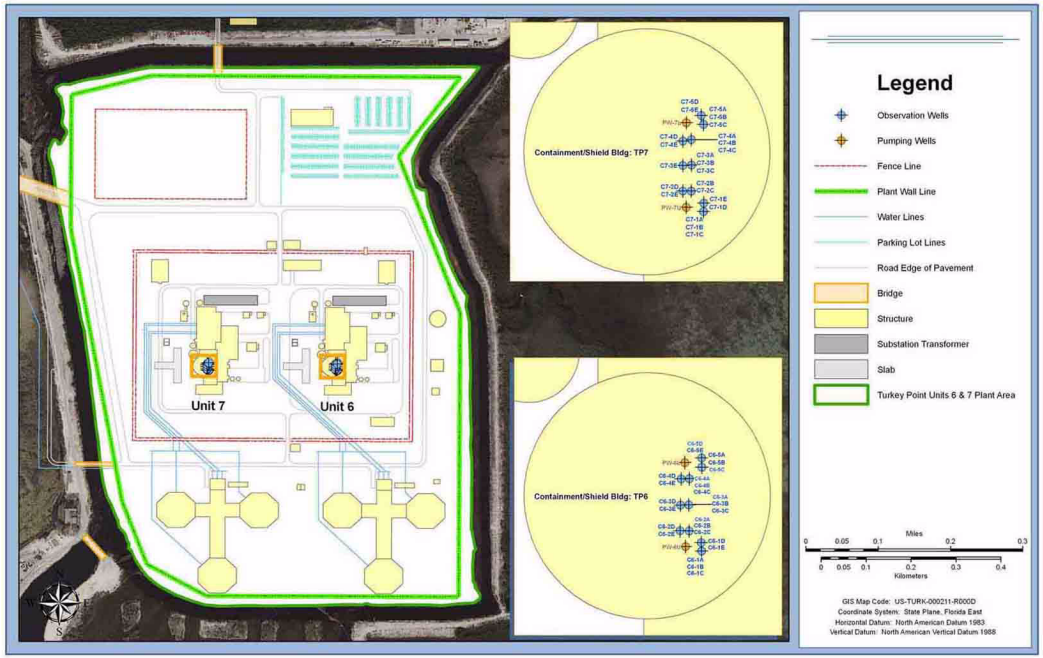


Figure 2.3-47 The Boulder Zone in Southern Florida

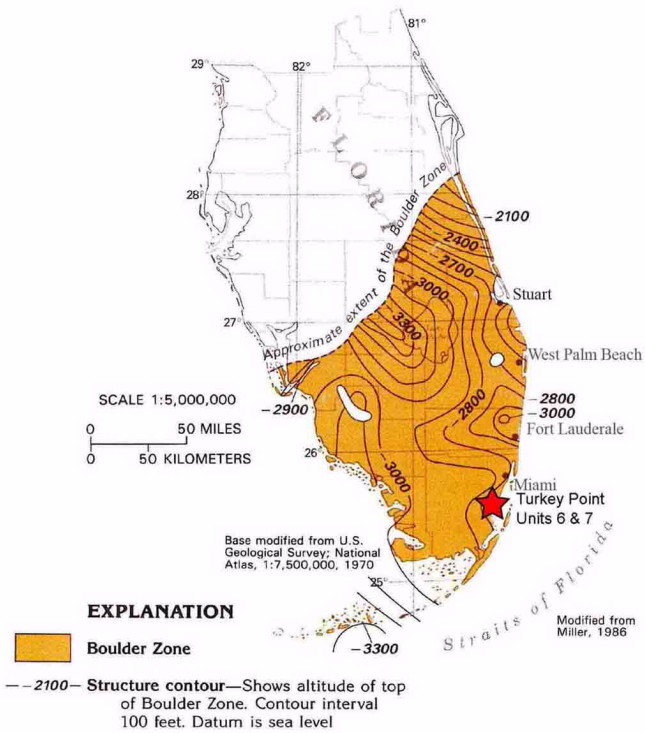
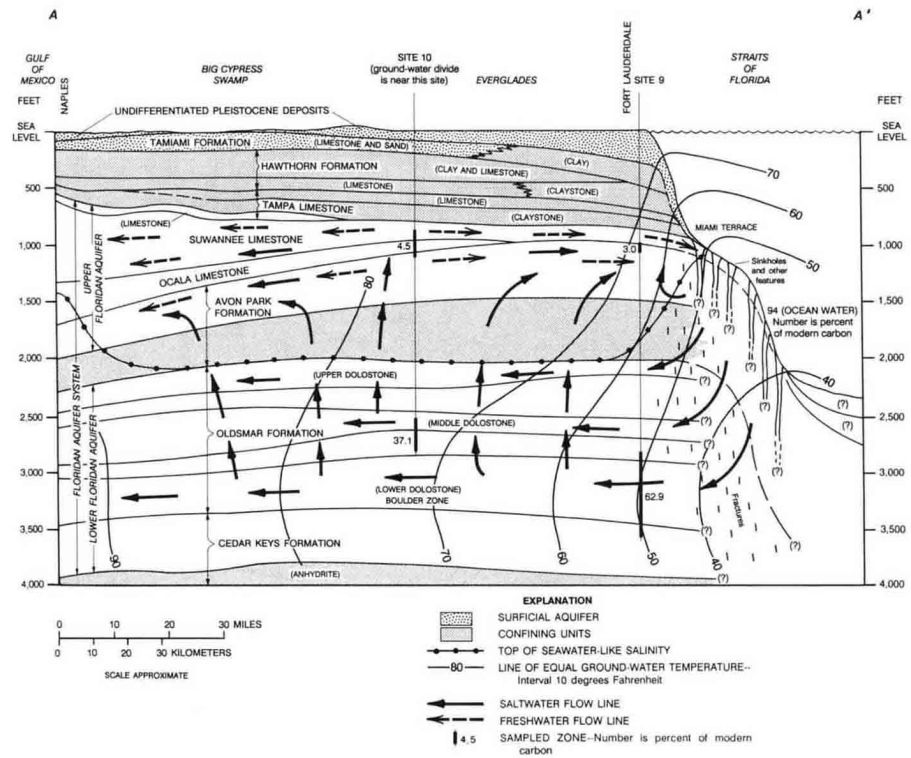


Figure 2.3-48 Generalized Hydrogeologic Section



Source: Meyer 1989

Figure 2.3-49 Piper Trilinear Diagram of Hydrogeochemical Samples

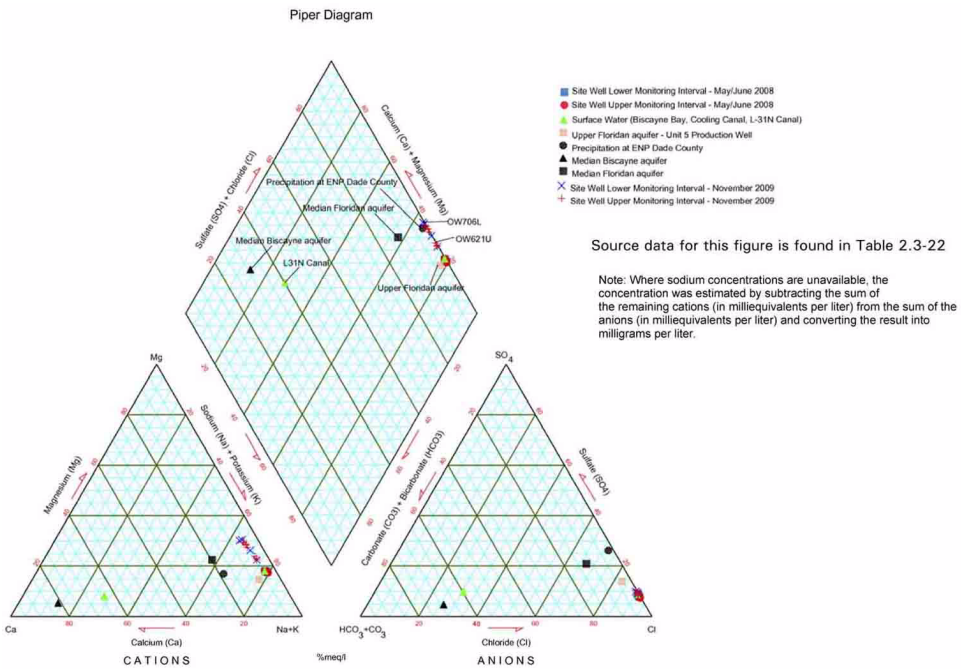


Figure 2.3-50 Hydrographs of L-31E Canal, Interceptor Ditch, and Industrial Wastewater Facility Canal 32

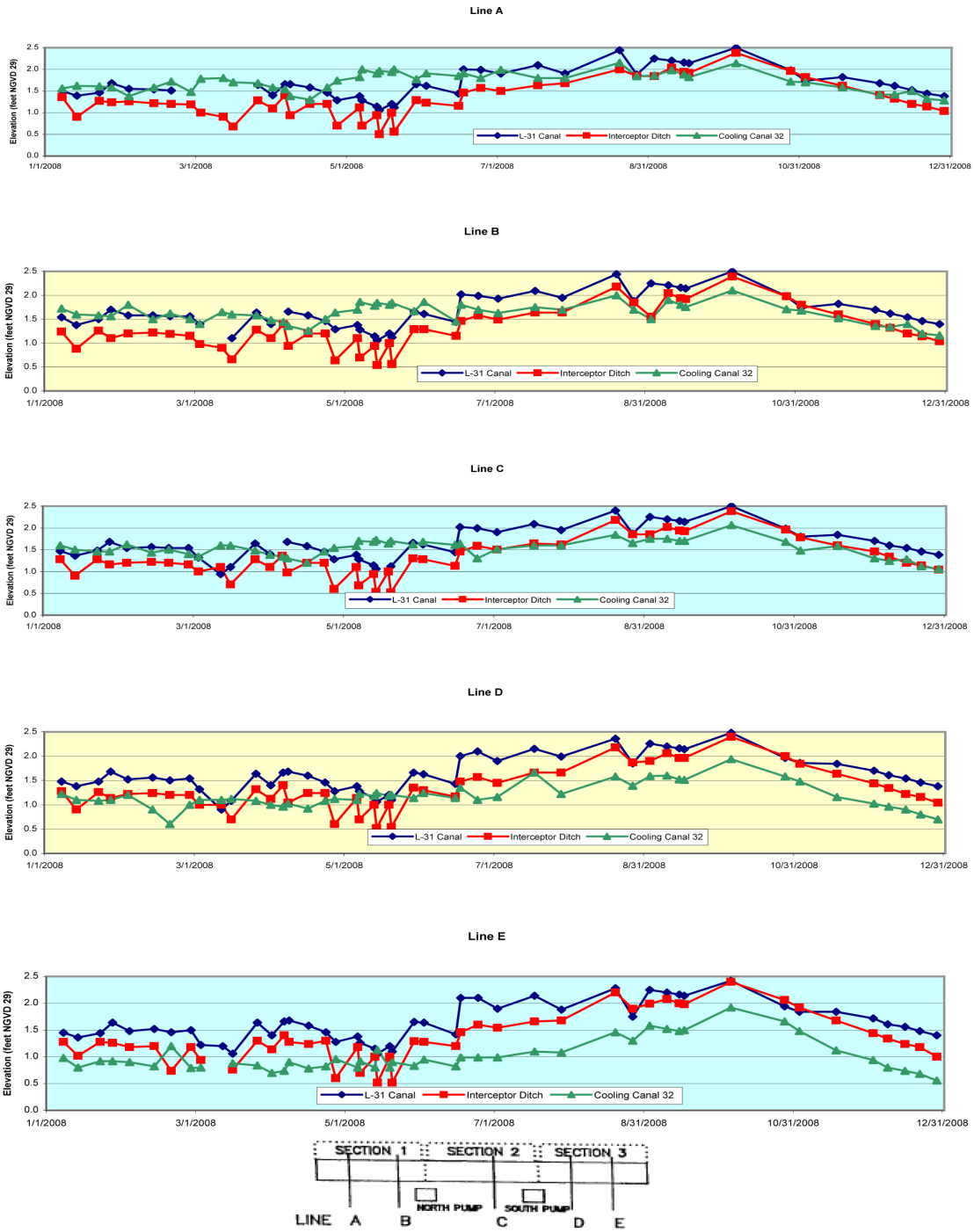
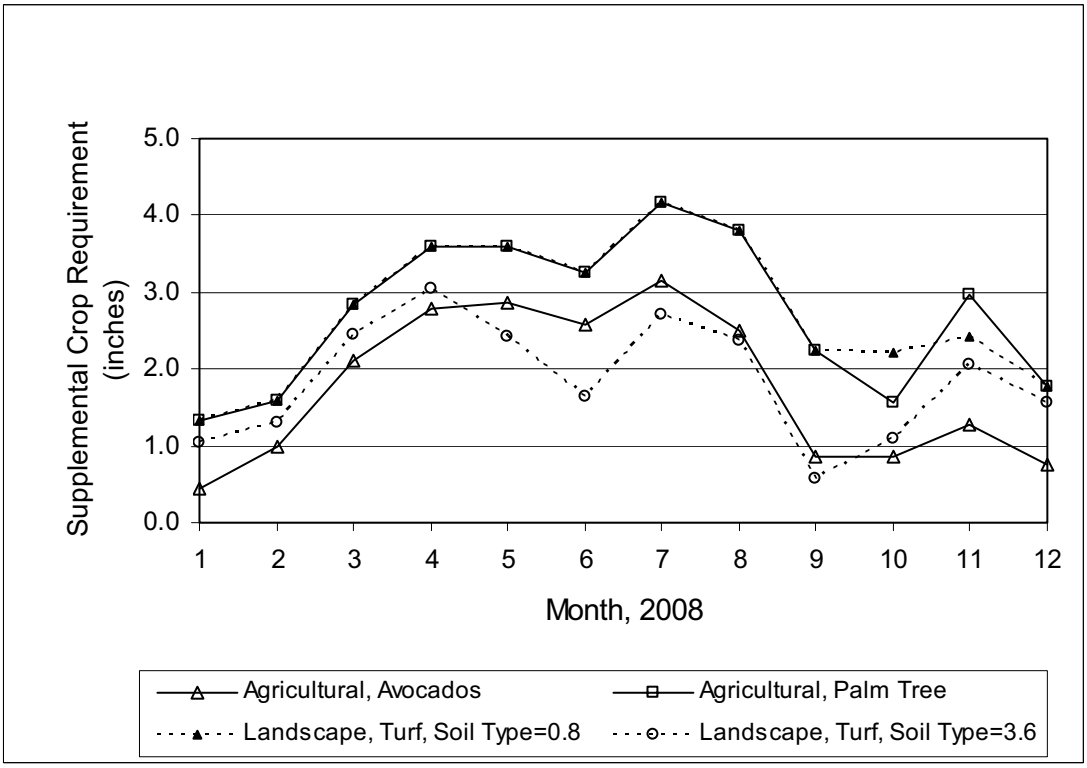


Figure 2.3-51 Location of Consumptive Surface Water Users within a 10-Mile Radius

Figure 2.3-52 Estimated Monthly Surface Water Withdrawal for Agricultural and Landscape Irrigation

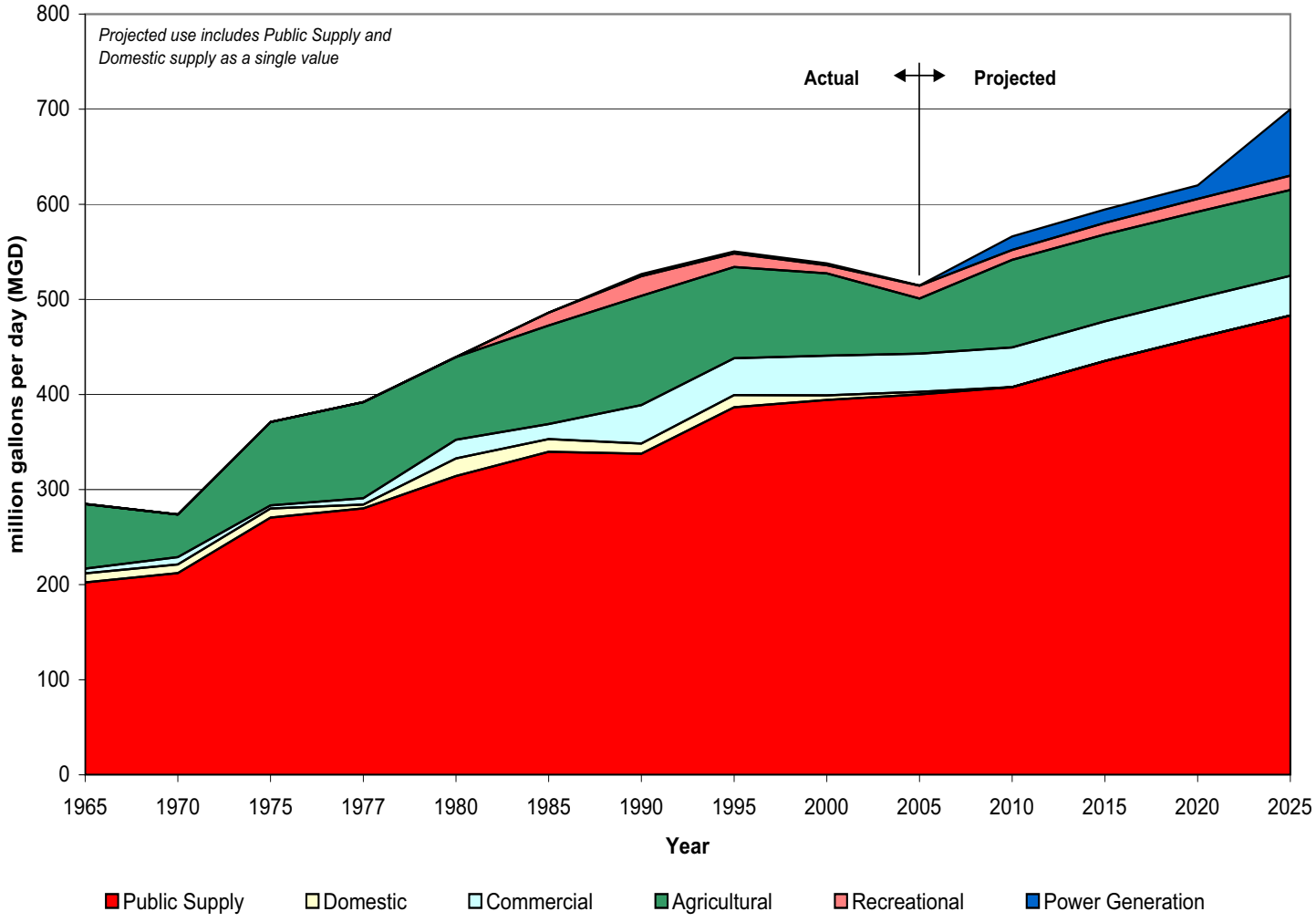


Source: SFWMD 2008c (Permit Nos. 13-04030-W, 13-03793-W, 13-04416-W, 13-04010-W)

Figure 2.3-53 Location of Nonconsumptive Surface Water Users within a 6-Mile Radius

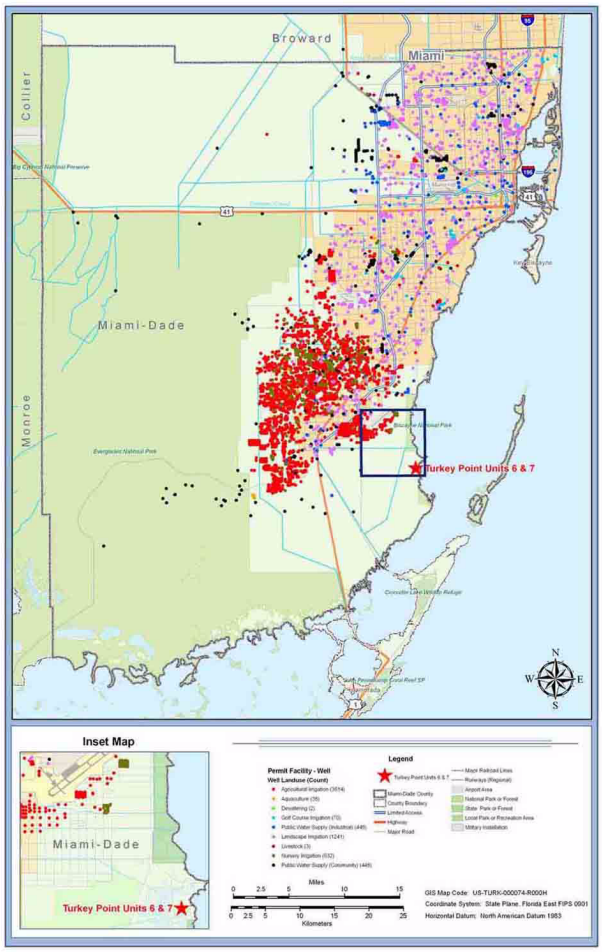
Figure 2.3-54 Not Used

Figure 2.3-55 Withdrawals of Groundwater in Miami-Dade County



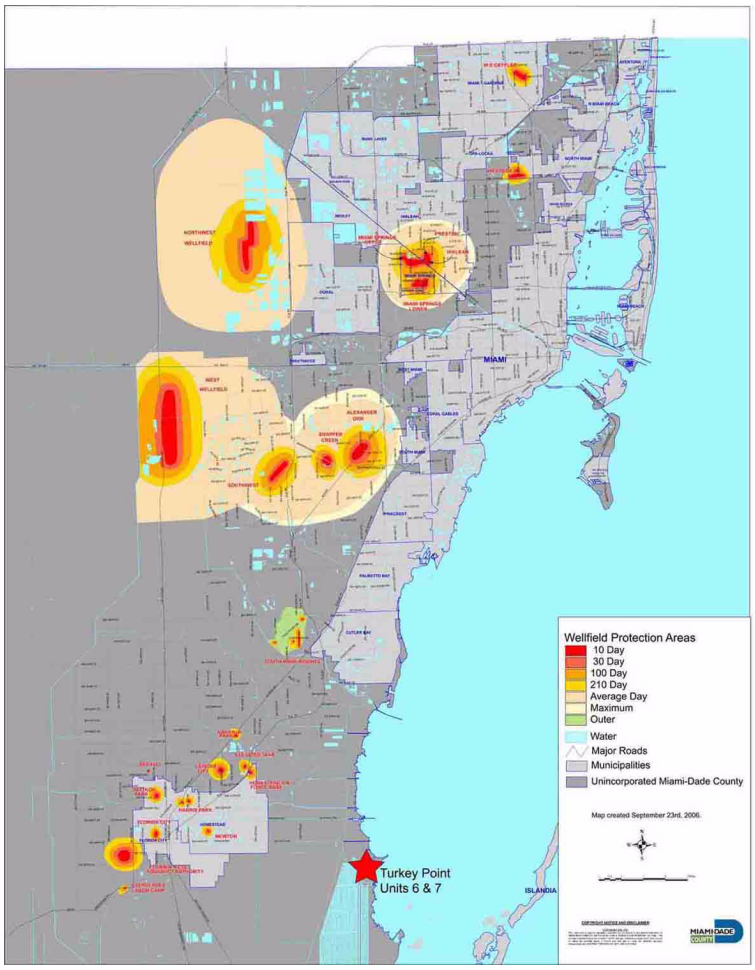
Sources:
1965-2000 Appendix 1 of Marella 2005
2005 Marella 2008
2010-2025 SFWMD 2006b

Figure 2.3-56 Permitted Freshwater Wells in Miami-Dade County



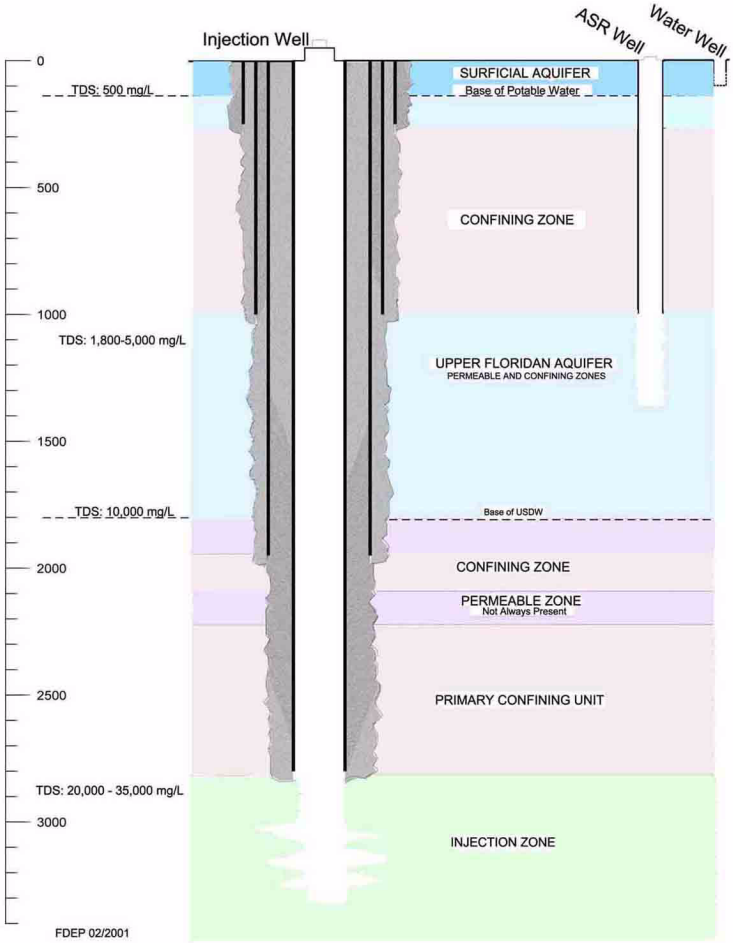
Data Source: SFWMD 2008a

Figure 2.3-57 Miami-Dade County Wellfields and Wellfield Protection Area



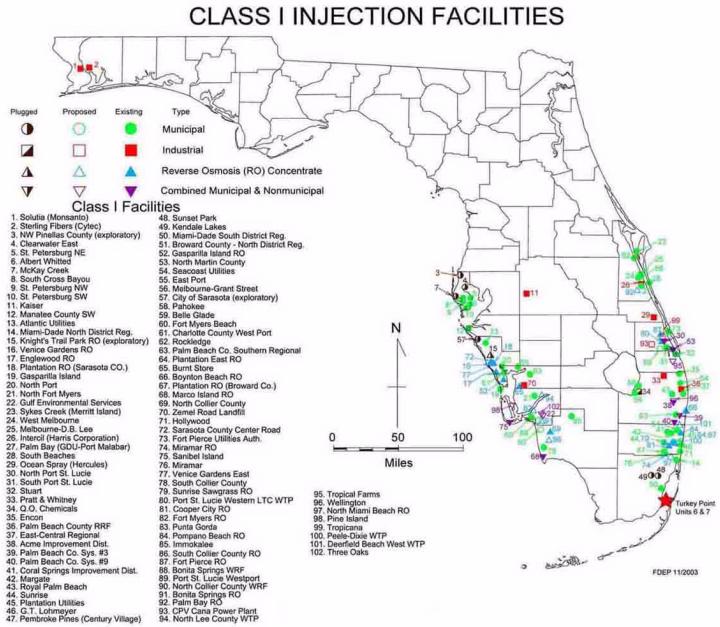
Modified from FDEP 2008d

Figure 2.3-58 Typical Municipal Class I Injection Well, Aquifer Storage and Recovery Well, and Water Well in Southeast Florida



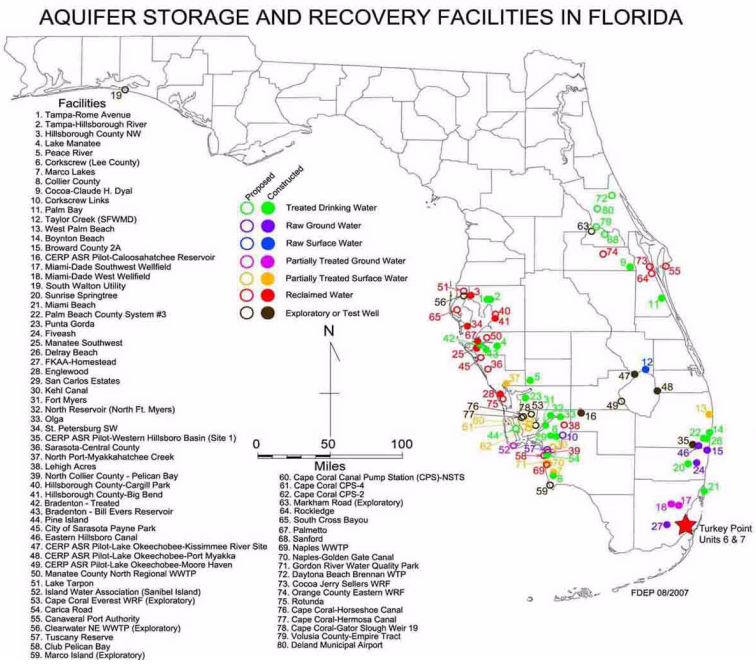
Source: FDEP 2008b
Note: The subsurface conditions and well completions shown in this figure may not represent the conditions beneath Units 6 & 7. This figure is a generalized representation of these types of wells presented in the Underground Injection Control Program website by the FDEP.

Figure 2.3-59 Class I Injection Wells



Modified from FDEP 2008b

Figure 2.3-60 Aquifer Storage and Recovery Map



Modified from FDEP 2008b

Figure 2.3-61 Industrial Wastewater Facility

Figure 2.3-62 Upper Floridan Production Wells for Units 1, 2, 5

Figure 2.3-63 Units 1, 2, 5 Monthly Groundwater Use

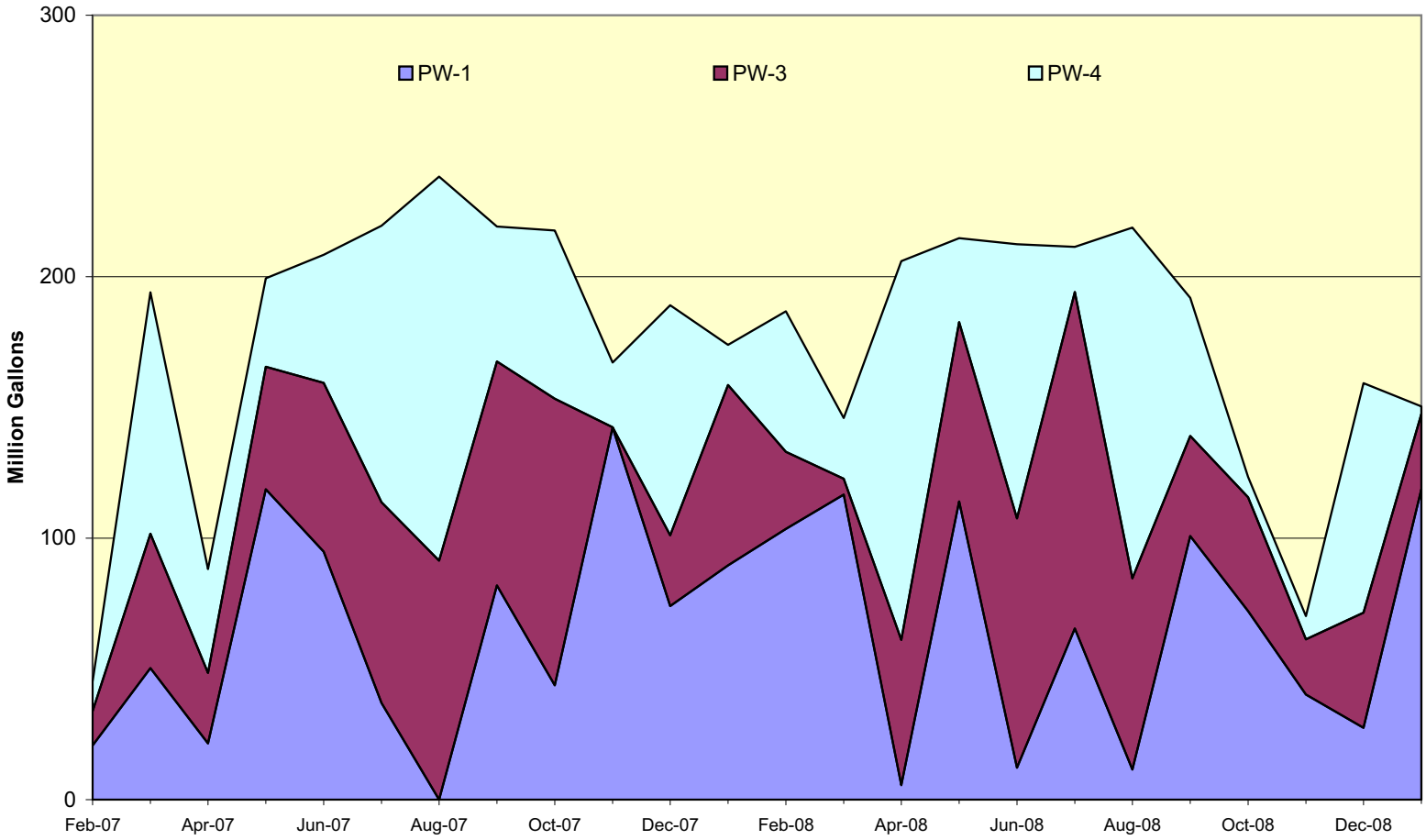


Figure 2.3-64 Radial Collector Well Area

Figure 2.3-65 Not Used

Figure 2.3-66 Biscayne Bay Water Quality Monitoring Stations Near Turkey Point Plant Property

Figure 2.3-67 303(d)-Listed Impaired Water Located Near Turkey Point Plant Property

Figure 2.3-68 NPDES Dischargers Located Near Turkey Point Property

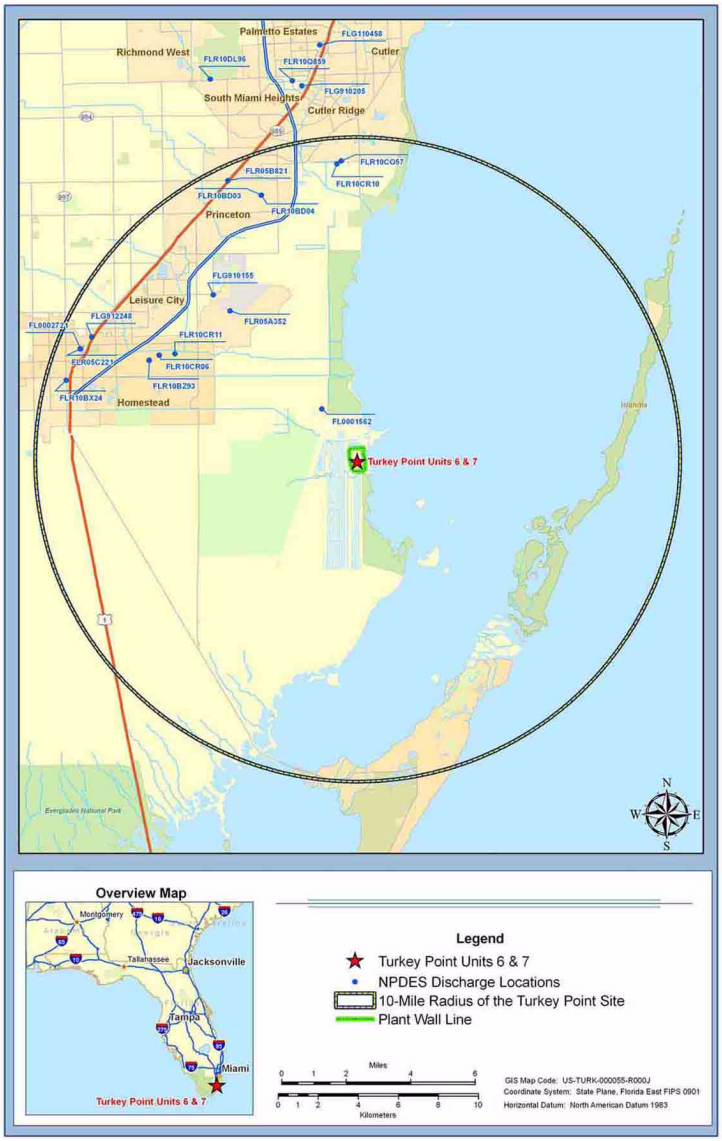


Figure 2.3-69 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, July 15, 2009 (Sheet 1 of 2) High Tide

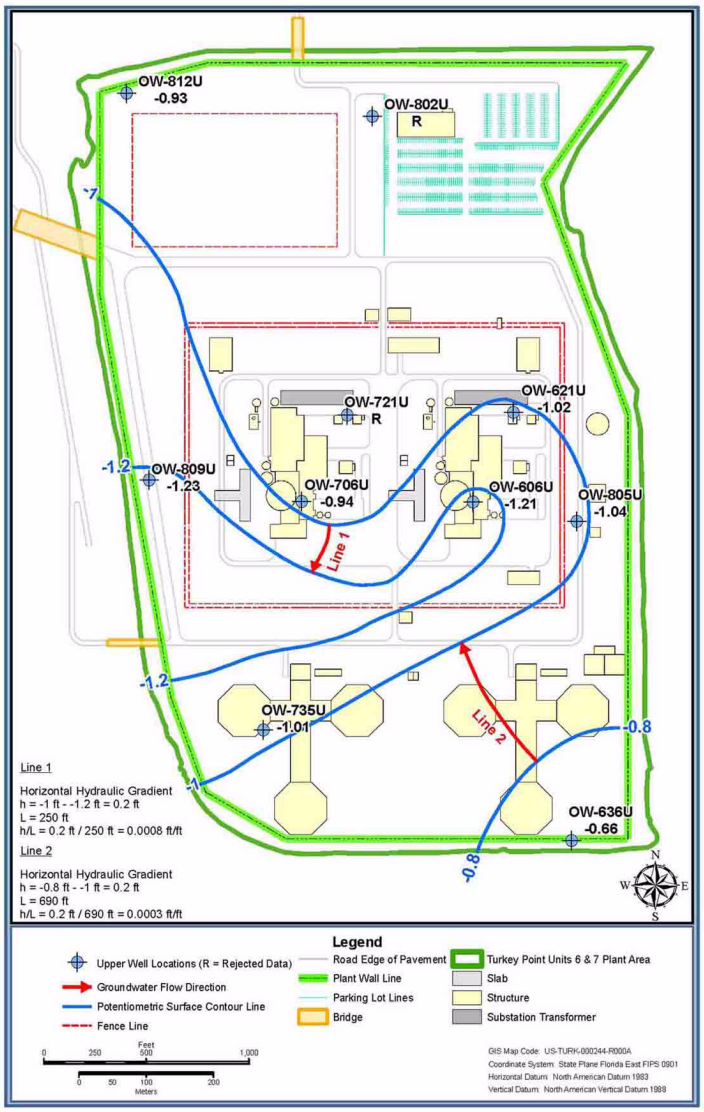


Figure 2.3-69 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, July 15, 2009 (Sheet 2 of 2) Low Tide

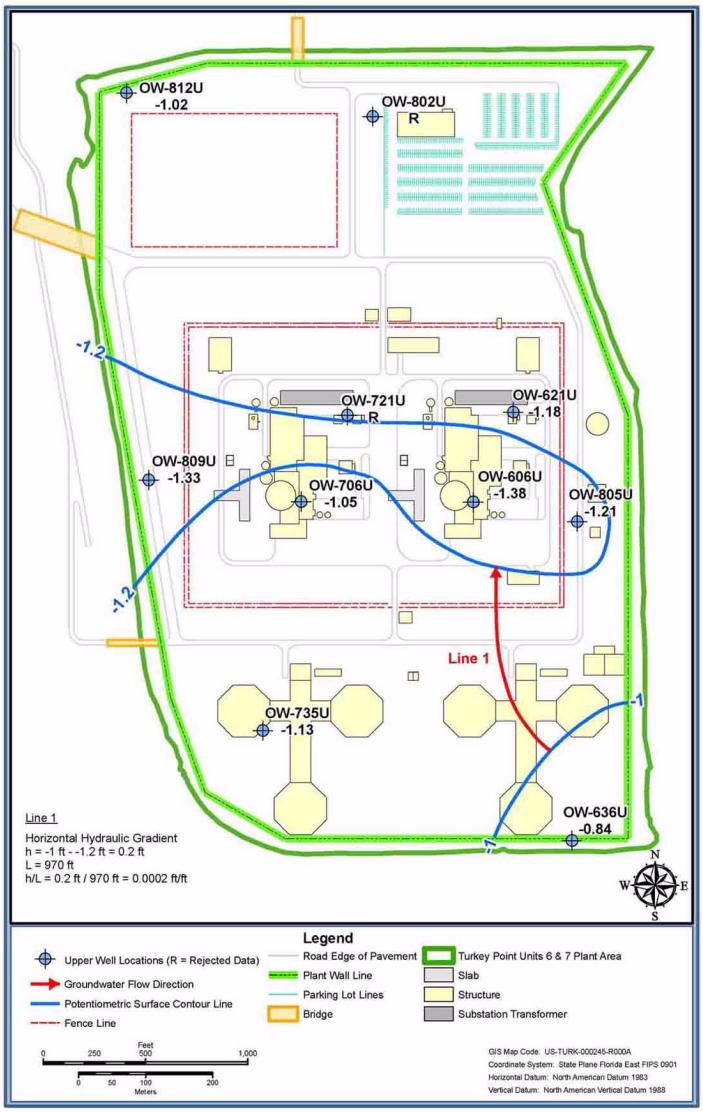


Figure 2.3-70 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, July 15, 2009 (Sheet 1 of 2) High Tide

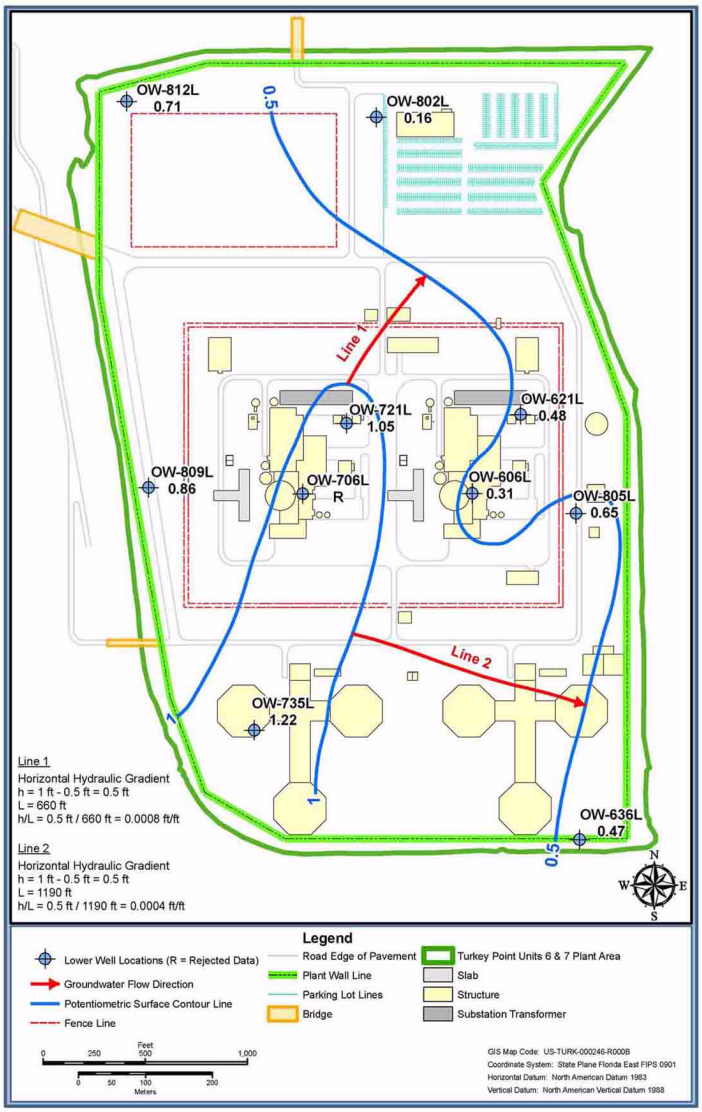


Figure 2.3-70 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, July 15, 2009 (Sheet 2 of 2) Low Tide

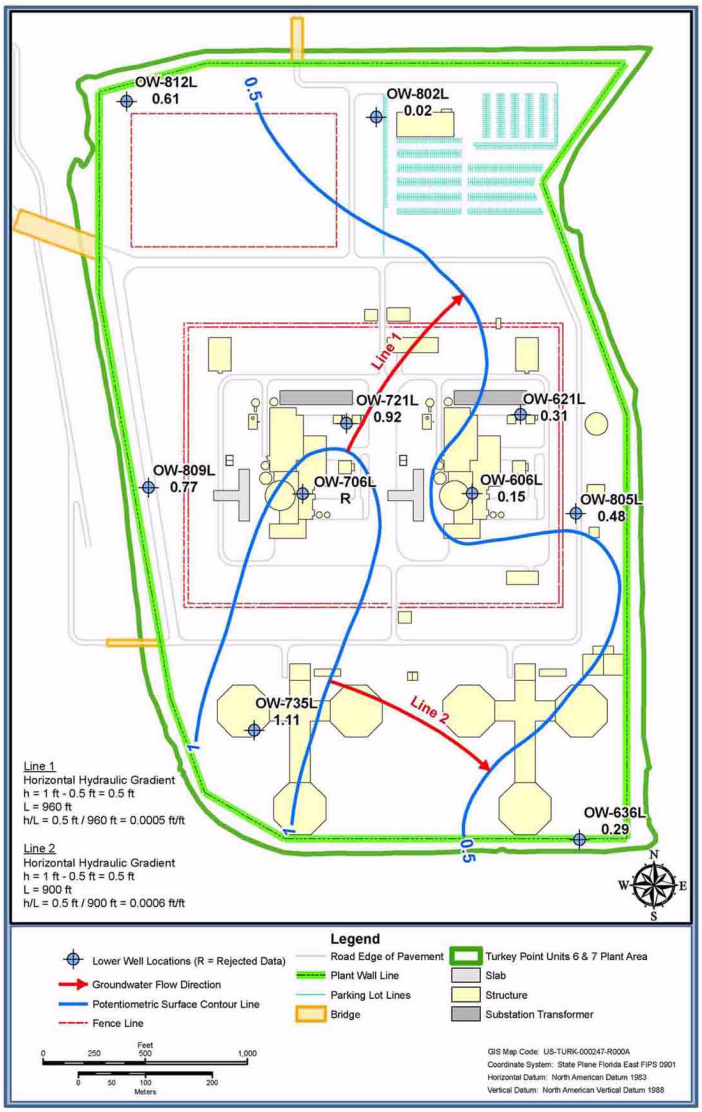


Figure 2.3-71 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 15, 2010 (Sheet 1 of 2) High Tide

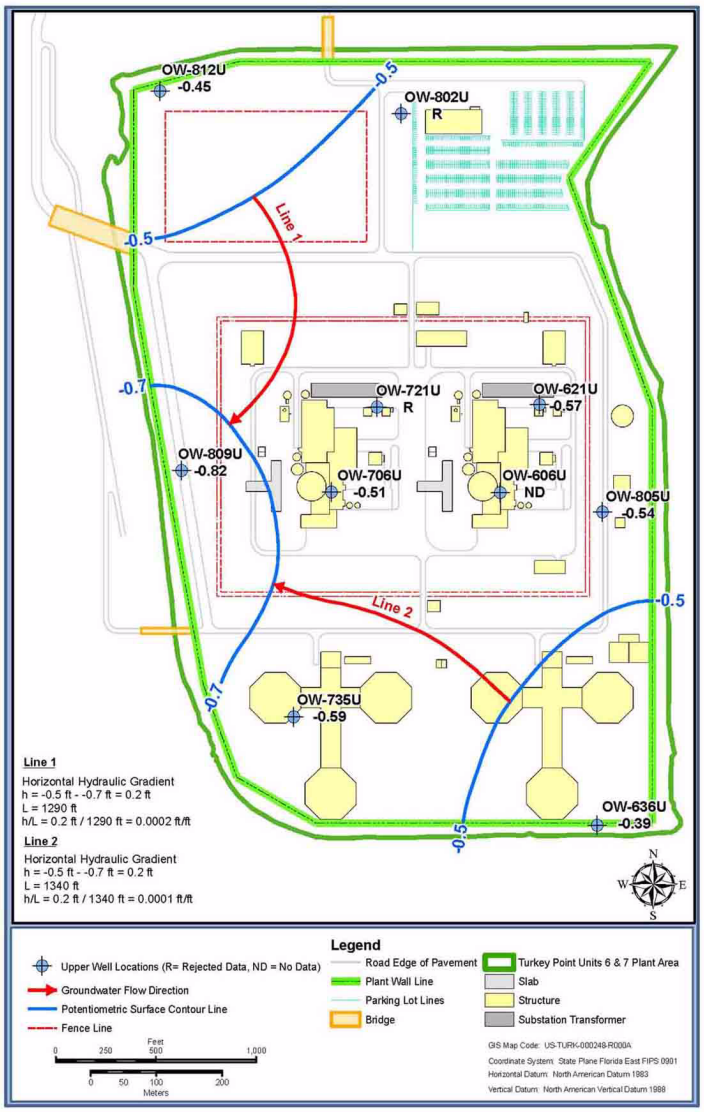


Figure 2.3-71 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 15, 2010 (Sheet 2 of 2) Low Tide

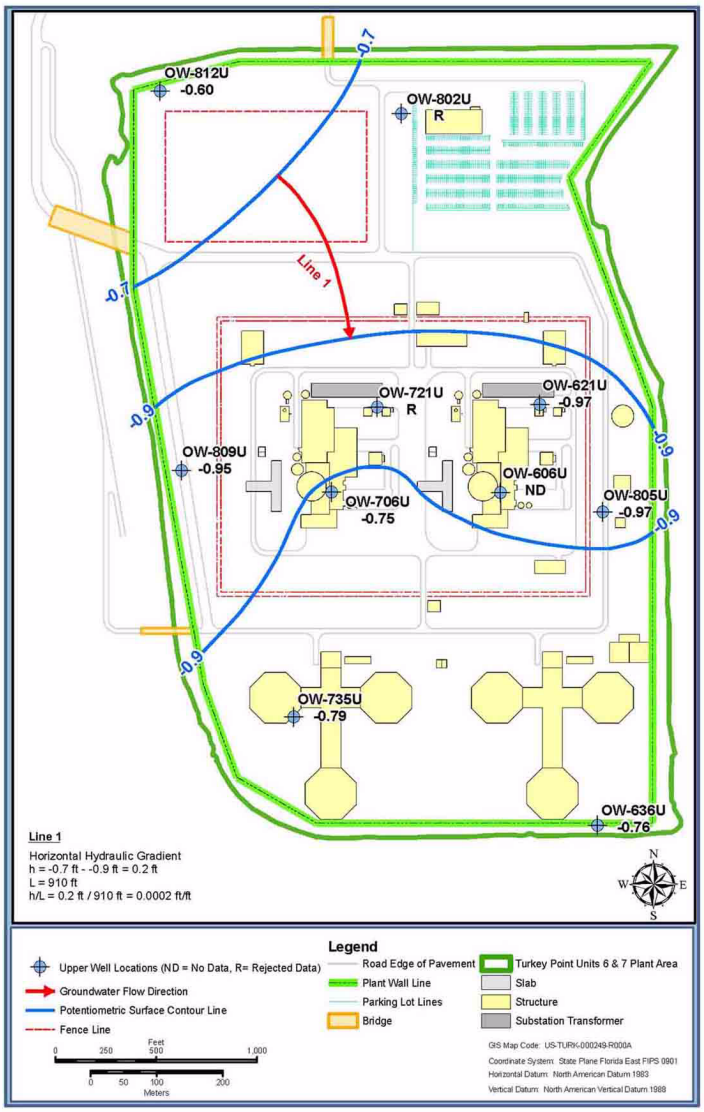


Figure 2.3-72 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 15, 2010 (Sheet 1 of 2) High Tide

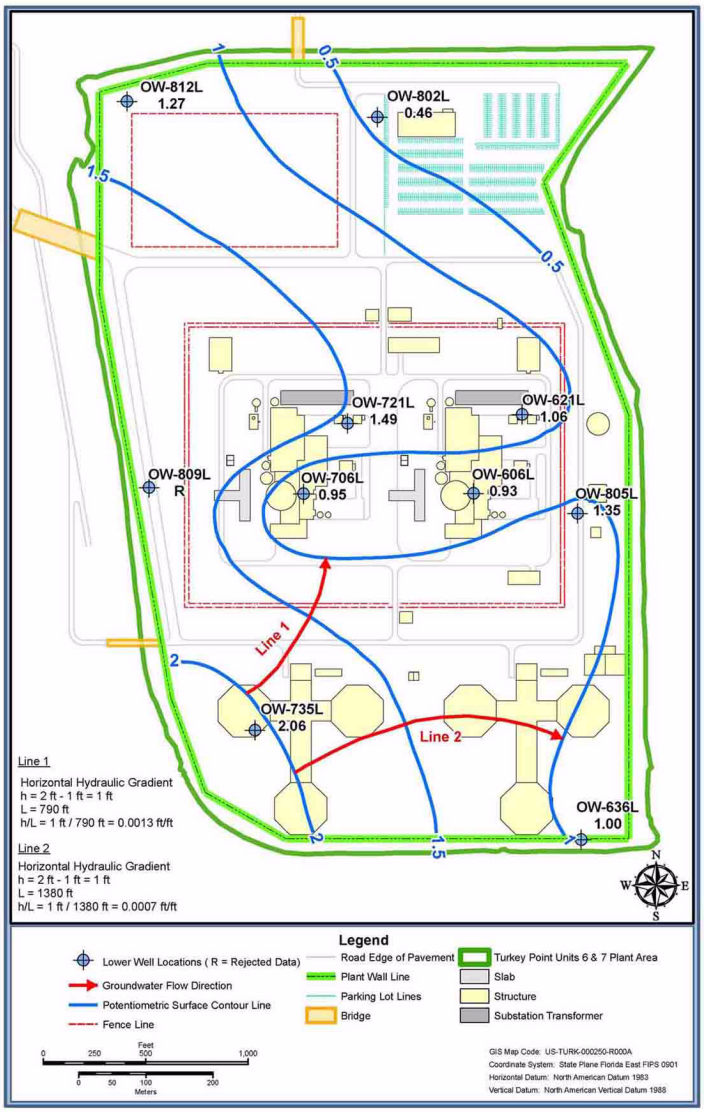
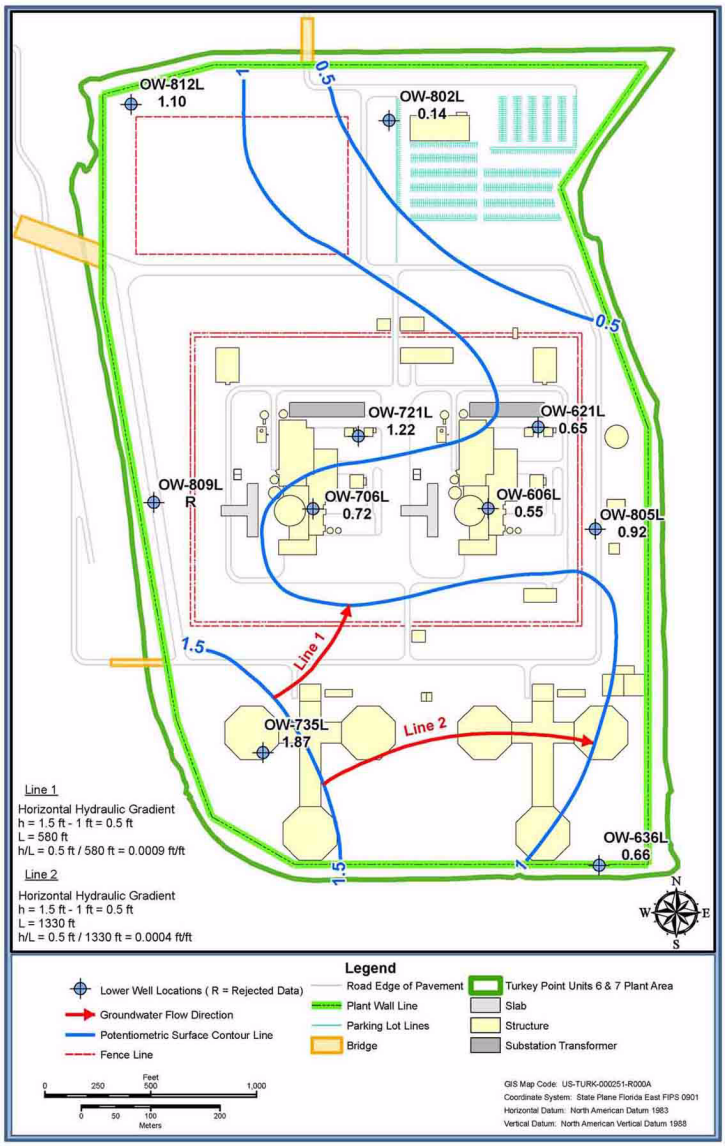



Figure 2.3-72 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 15, 2010 (Sheet 2 of 2) Low Tide