Figure 2.3-1 Major Hydrological Features Near Units 6 & 7

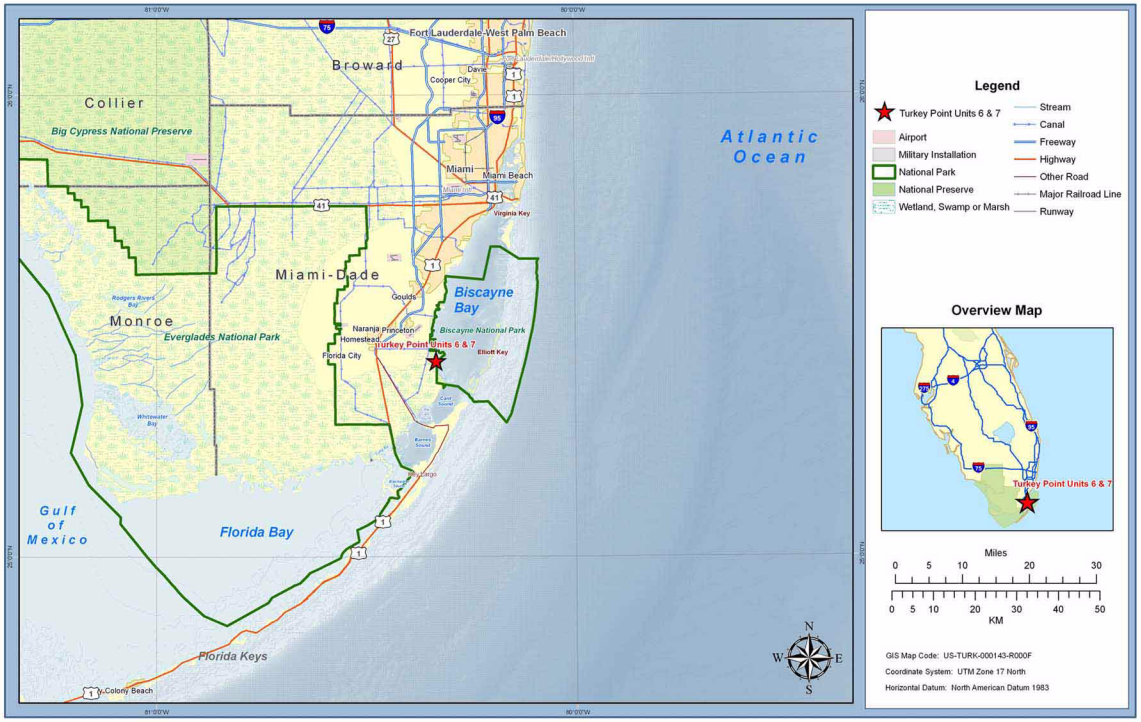


Figure 2.3-2 Areas Surrounding the Turkey Point Plant Property

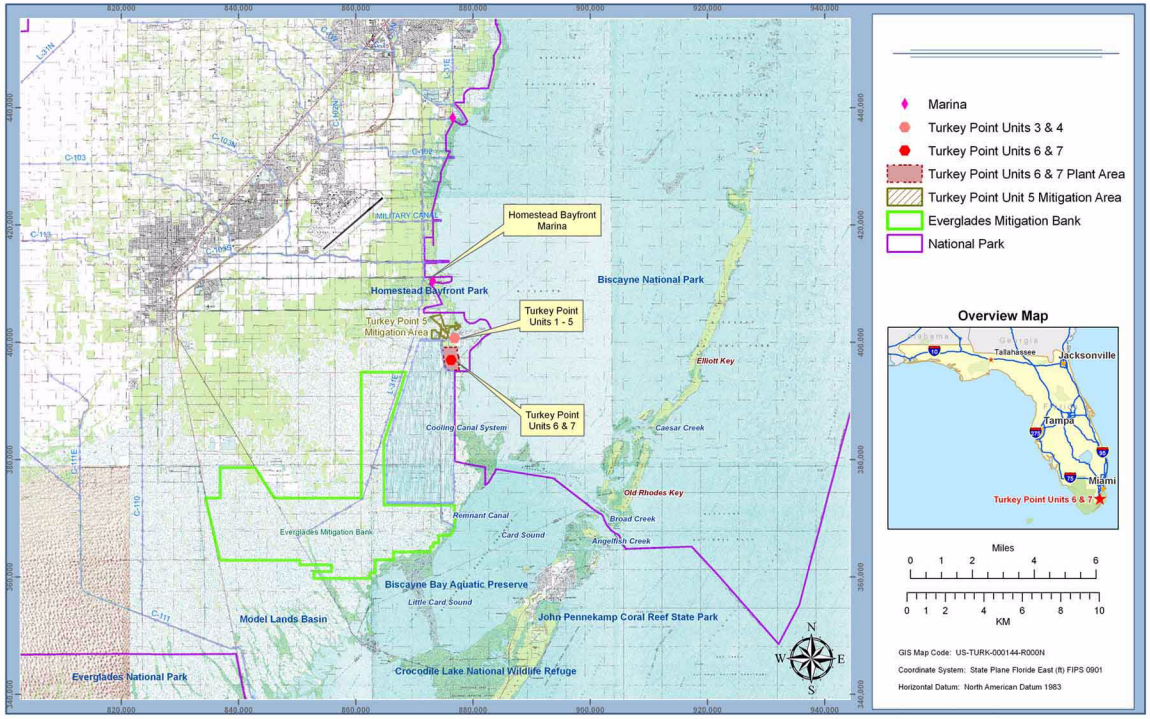


Figure 2.3-3 The Turkey Point Plant Property Including the Industrial Wastewater Facility

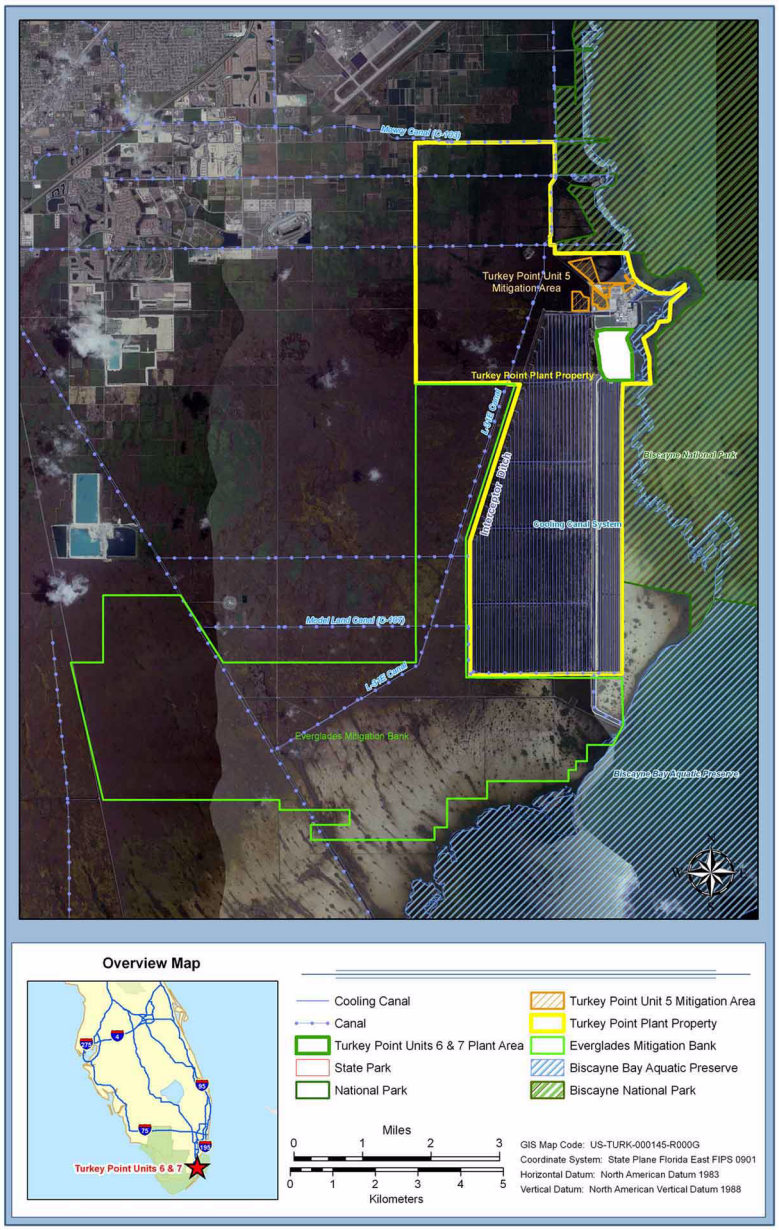


Figure 2.3-4 General Arrangement of Units 6 & 7

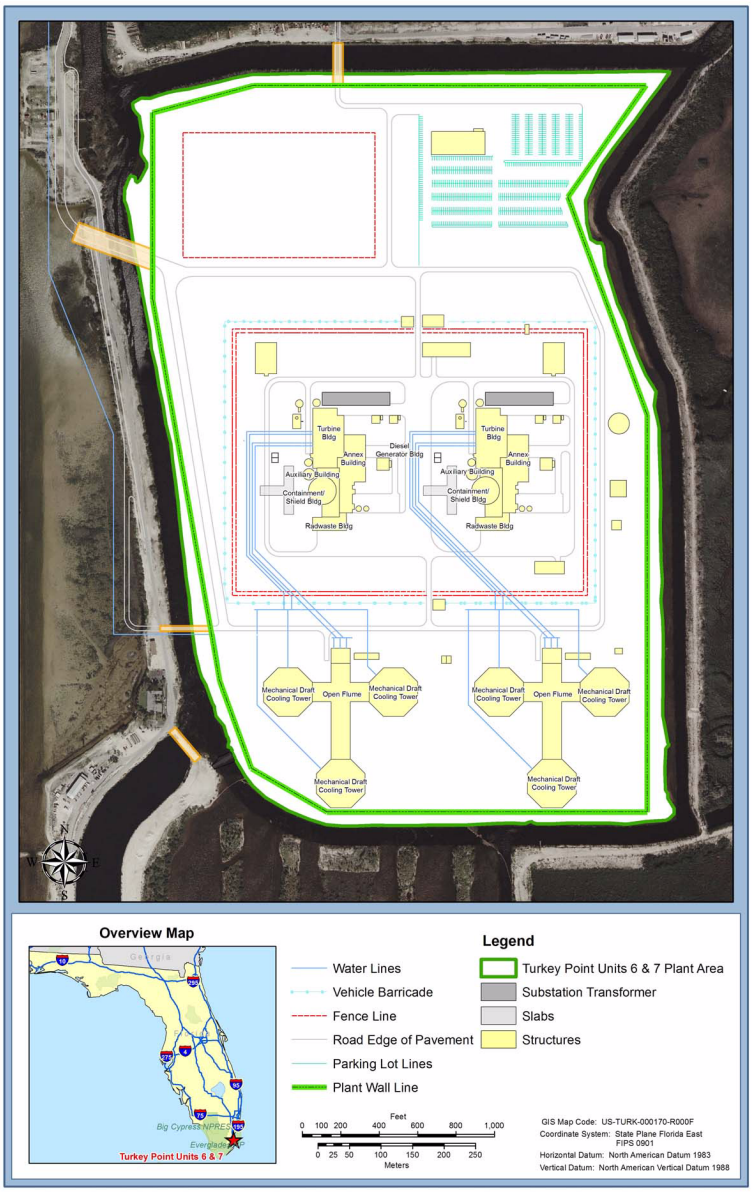
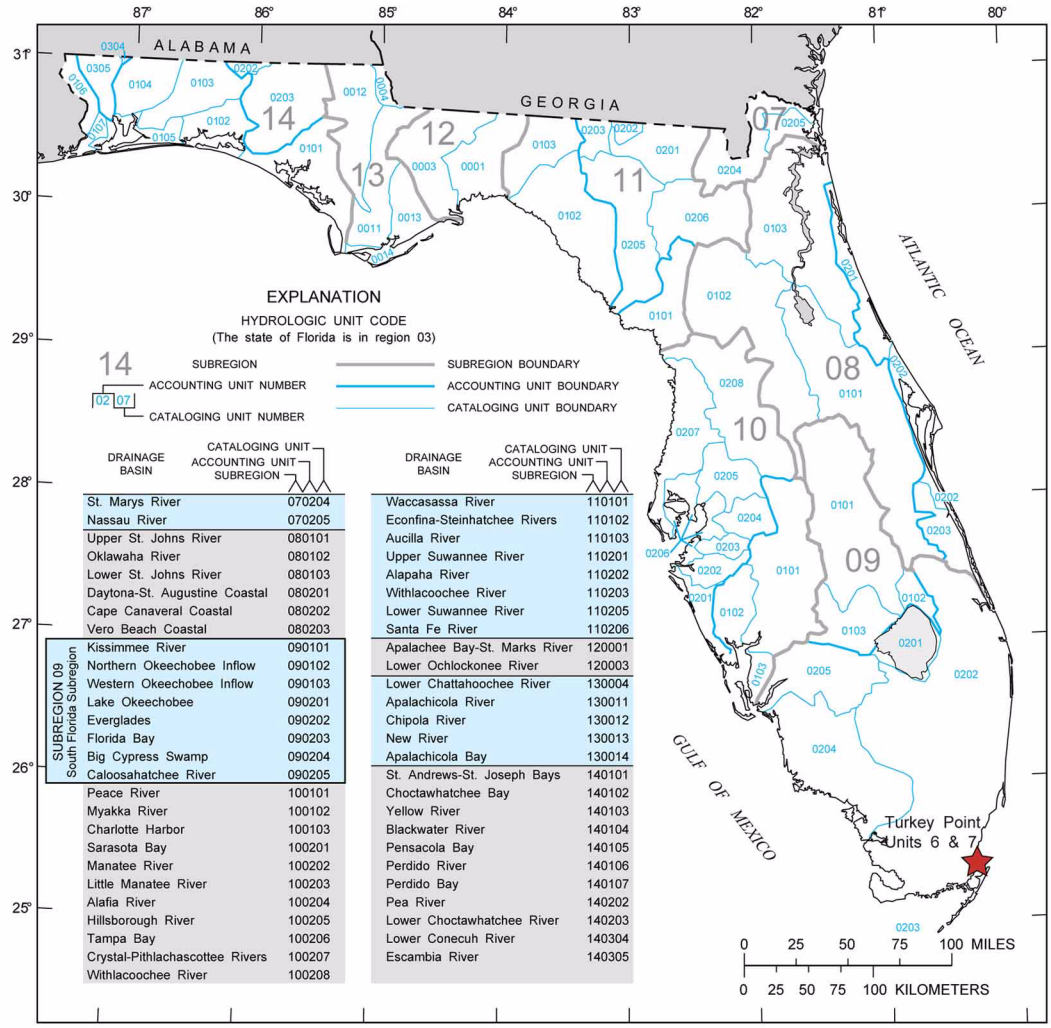
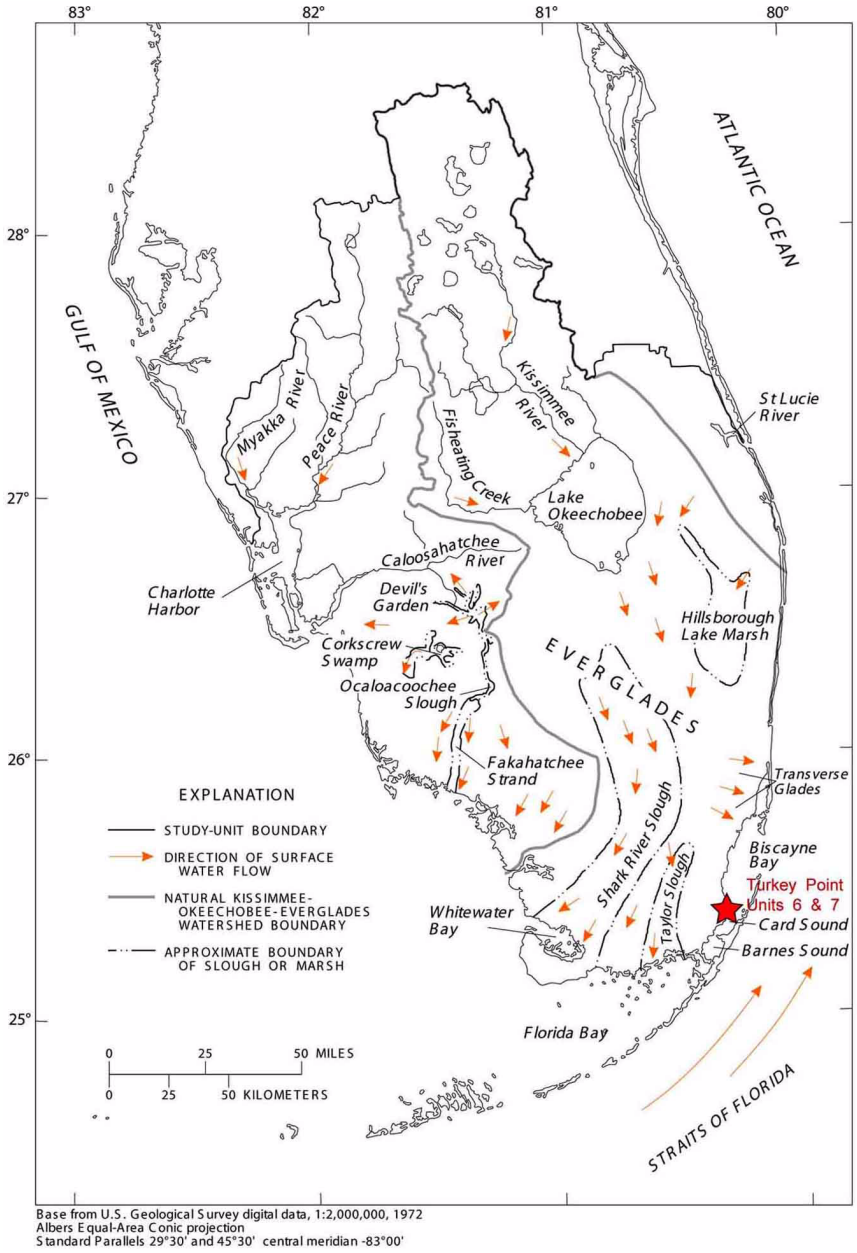


Figure 2.3-5 Map of South Florida Watershed Subregions



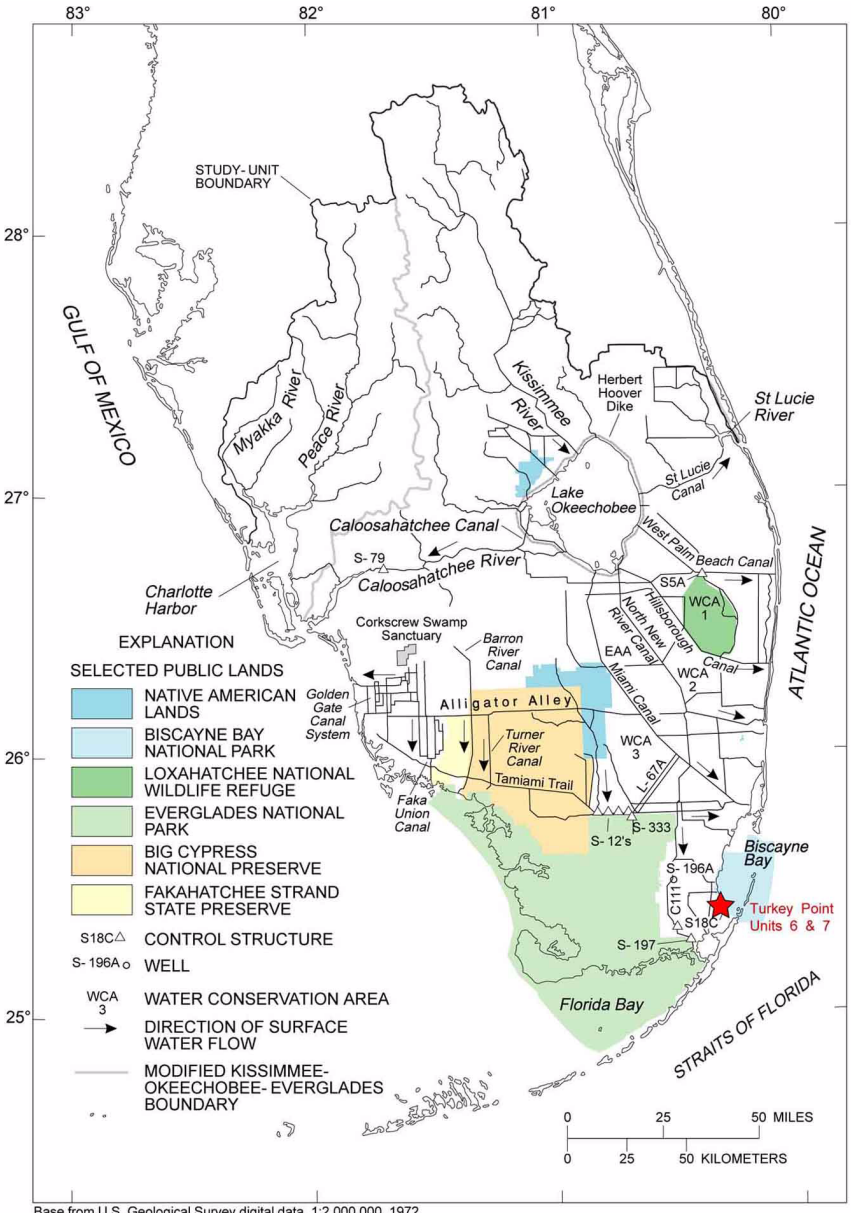
Modified from Marella 1999

Figure 2.3-6 Hydrologic Features and Predevelopment Flow Patterns within the South Florida Watershed



Modified from McPherson and Halley 1997

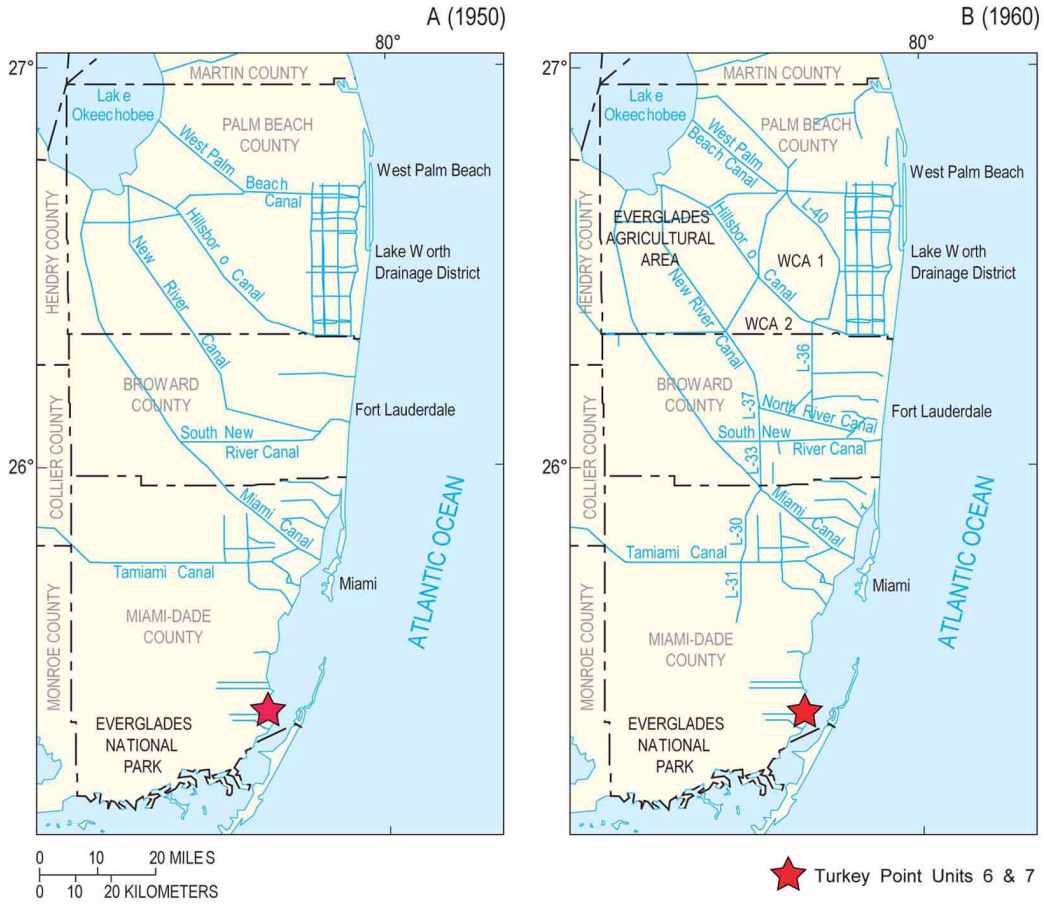
Figure 2.3-7 Selected Public Lands and Post-Development Flow Alteration within the South Florida Watershed



Base from U.S. Geological Survey digital data, 1:2,000,000, 1972
Albers Equal-Area Conic projection
Standard Parallels 29°30' and 45°30', central meridian -83°00'

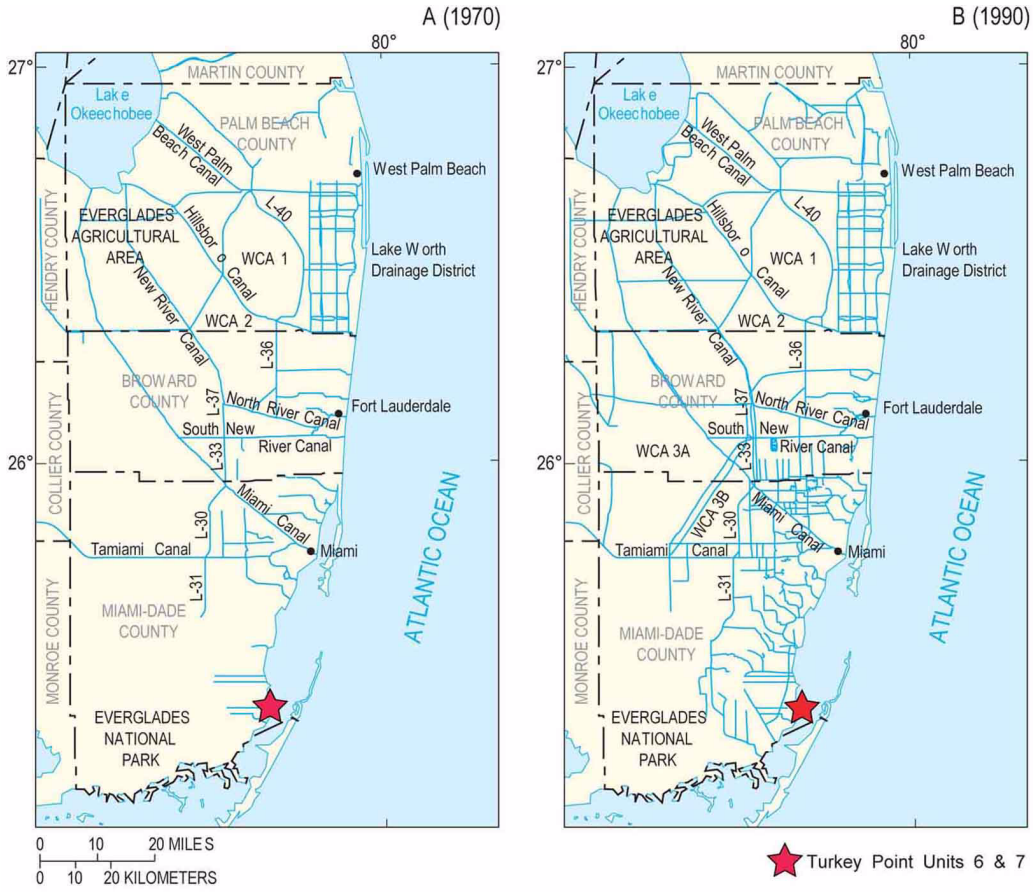
Modified from McPherson and Halley 1997

Figure 2.3-8 Surface Water Conveyance System in the South Florida Region in (A) 1950 and (B) 1960



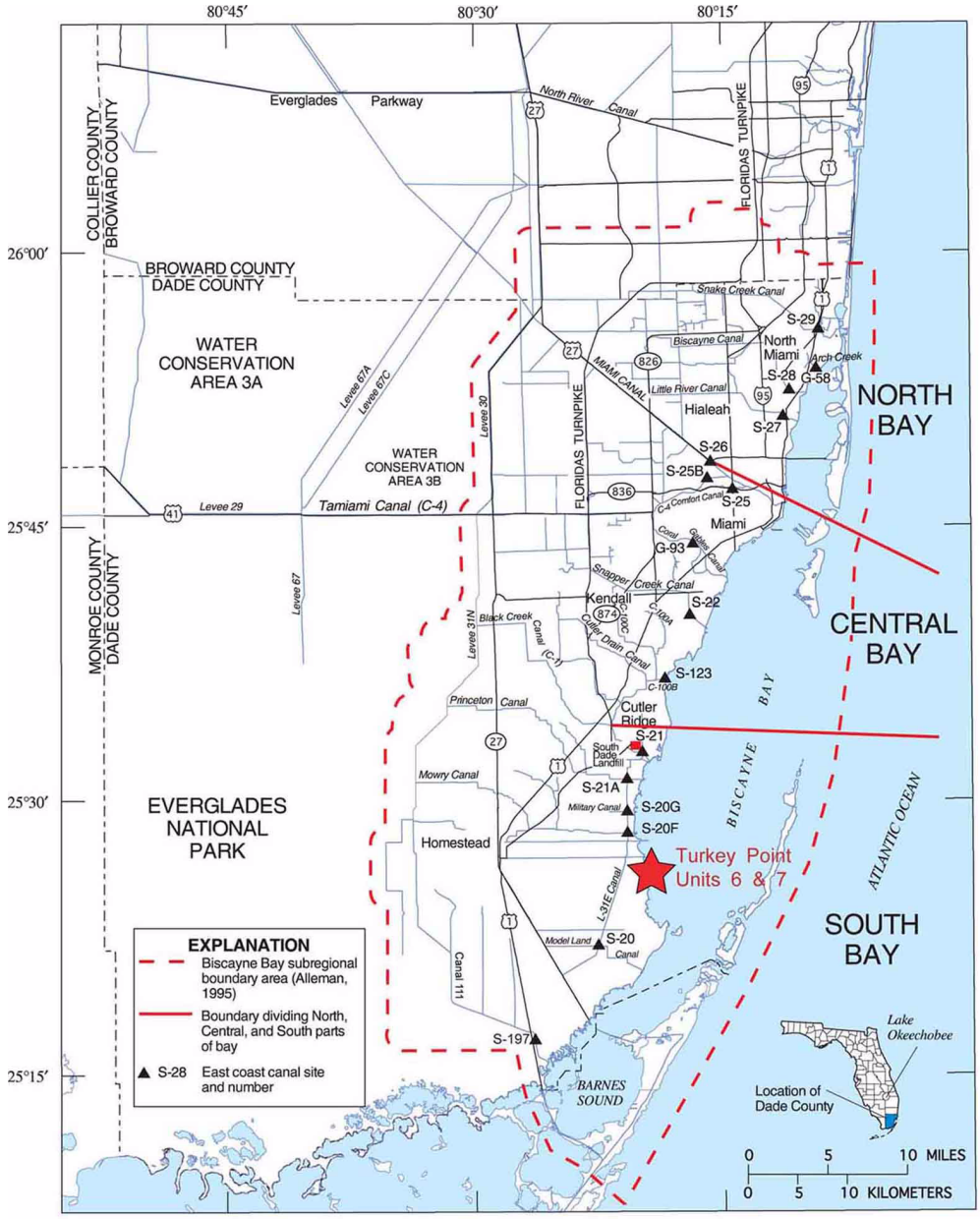
Modified from Renken et al. 2005

Figure 2.3-9 Surface Water Conveyance System in the South Florida Region in (A) 1970 and (B) 1990



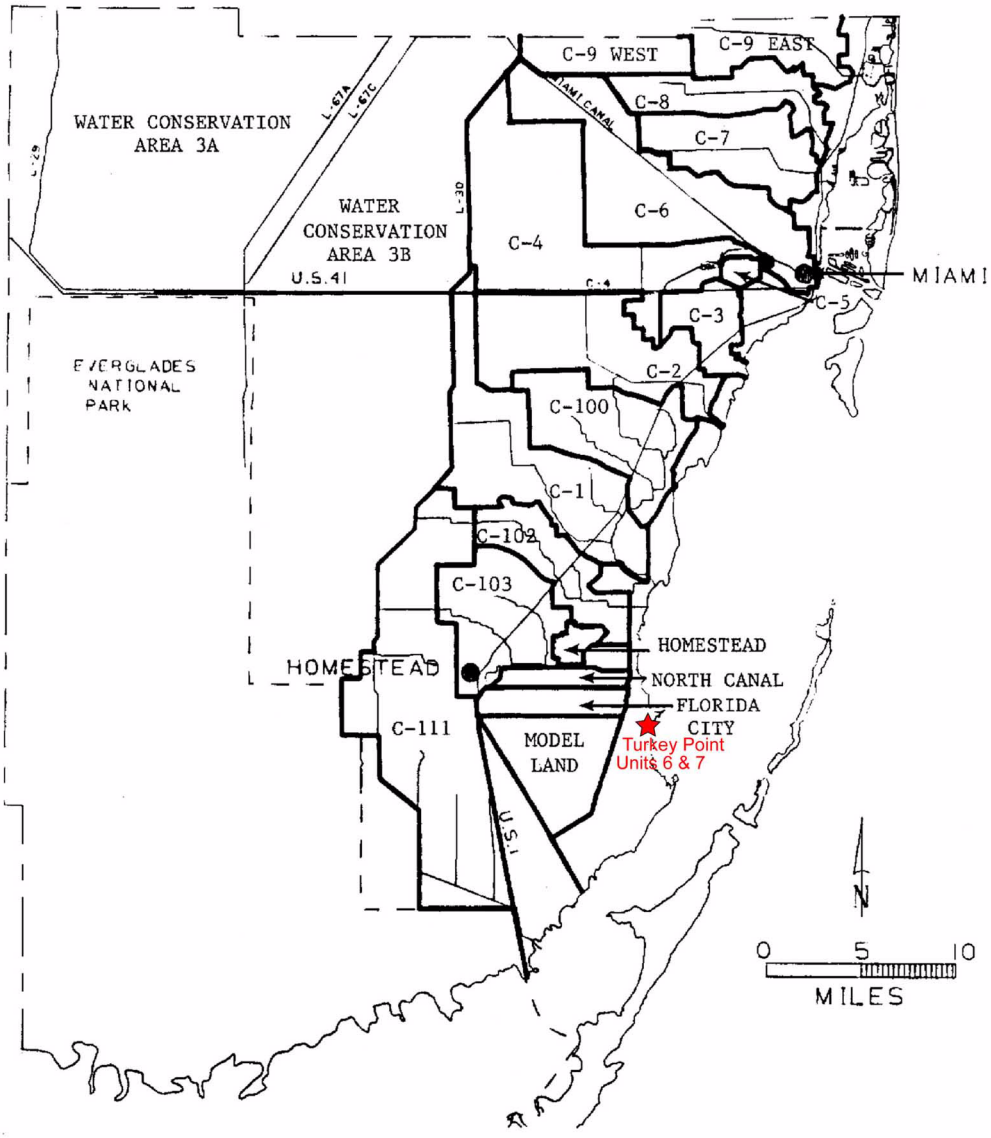
Modified from Renken et al. 2005

Figure 2.3-10 Locations of ENP-SDCS and C&SF Project Canals, Coastal Control Structures, and Planning Zones of the Biscayne Bay



Modified from Lietz 1999

Figure 2.3-11 Locations of Eastern Dade County Surface Water Management Basins



Location of Turkey Point Units 6 & 7 is approximate.

Modified from Cooper and Lane 1987

Figure 2.3-12 Locations of NOAA Tide Gages

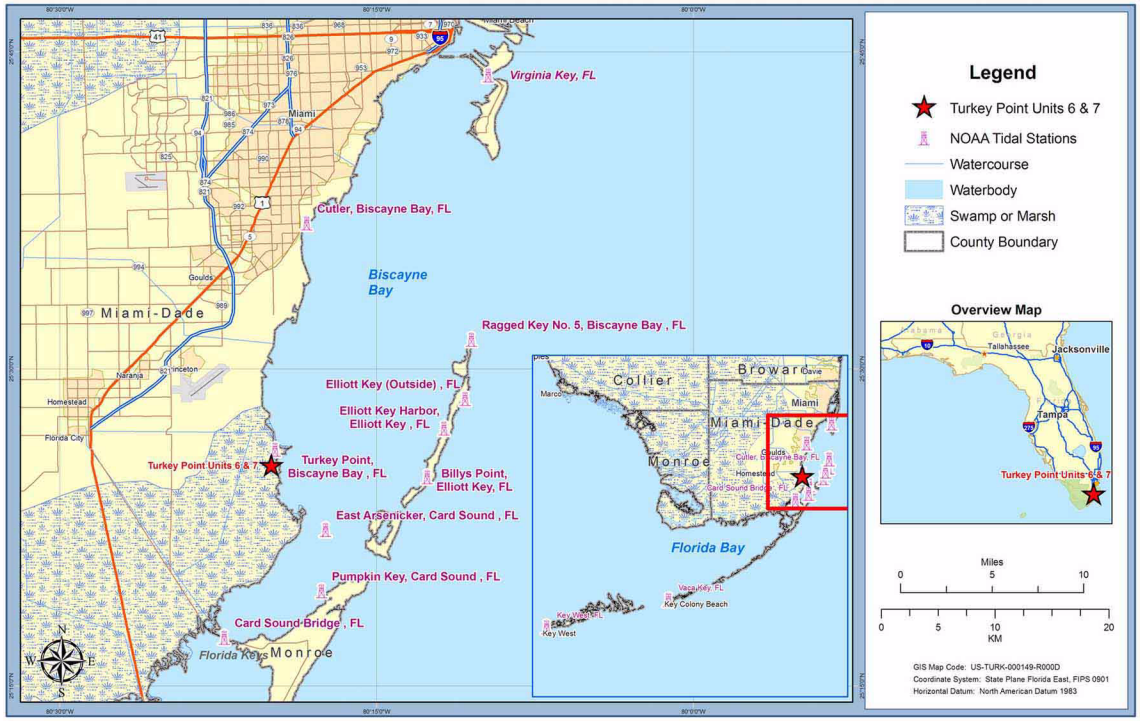


Figure 2.3-13 Biscayne Bay Bathymetry

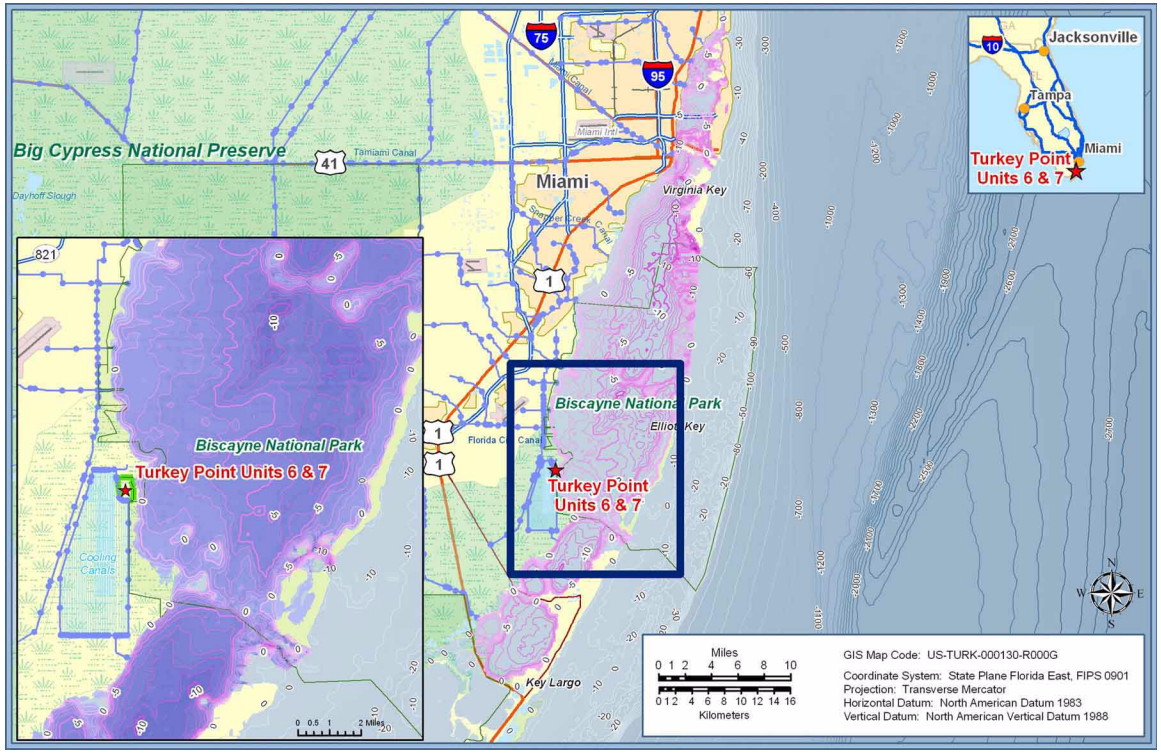


Figure 2.3-14 Designed Layout of the Industrial Wastewater Facility

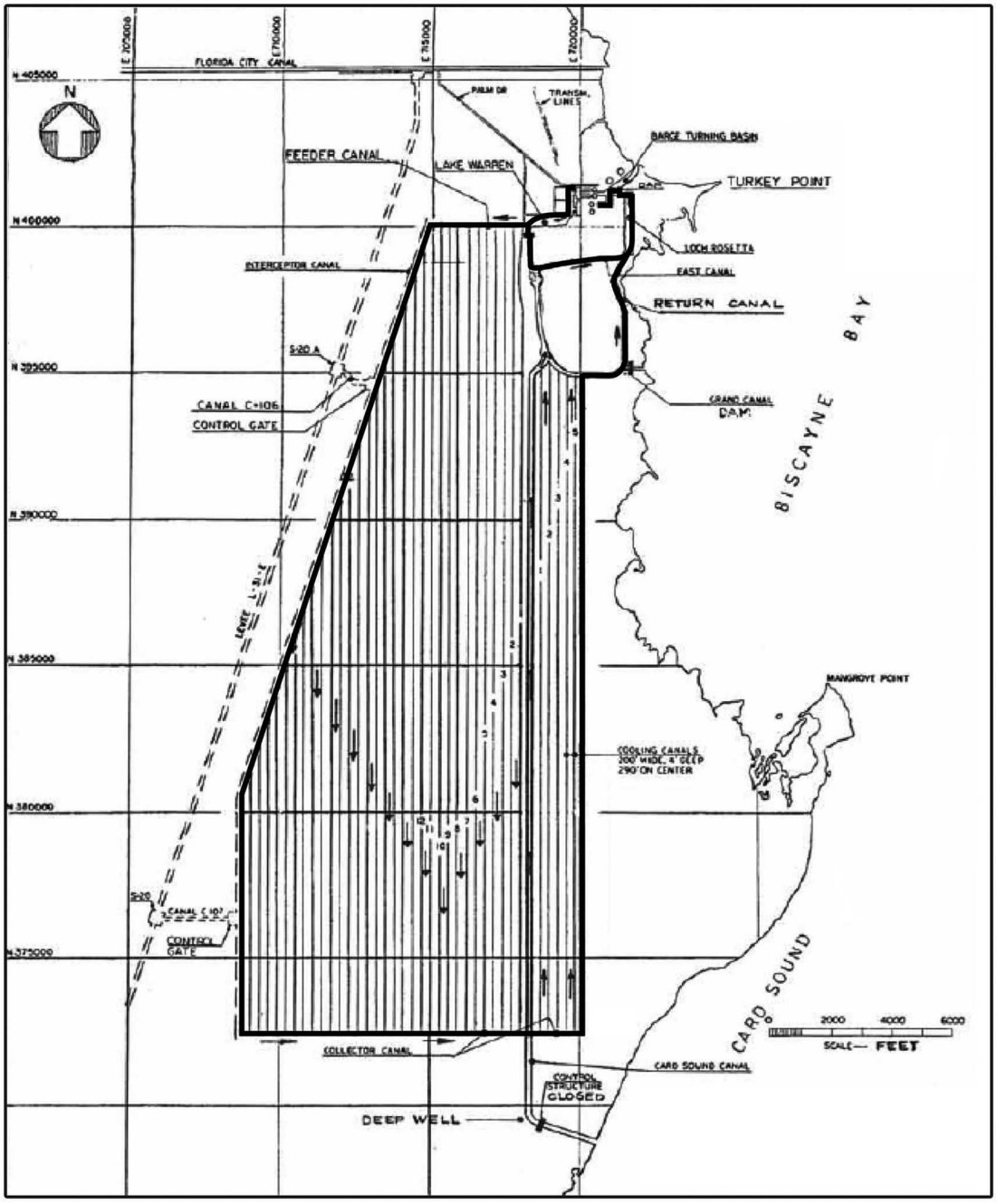


Figure 2.3-15 Locations of Wetlands Designated by U.S. Fish and Wildlife Services Near the Turkey Point Plant Property

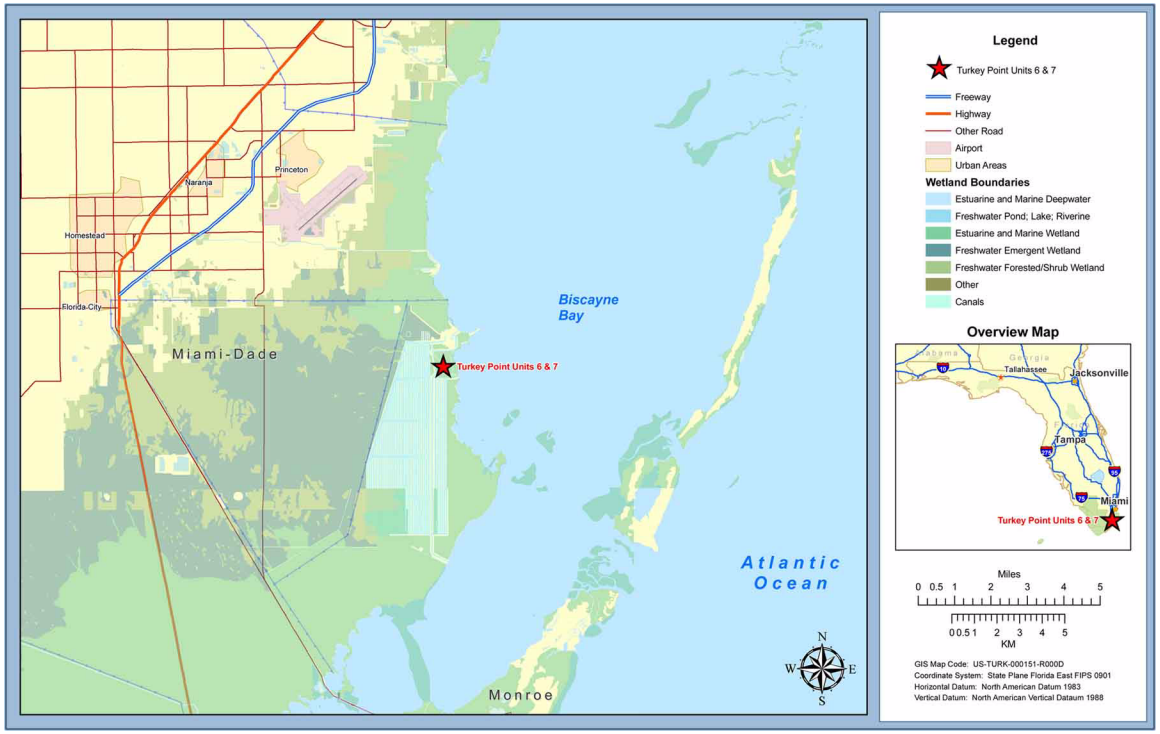
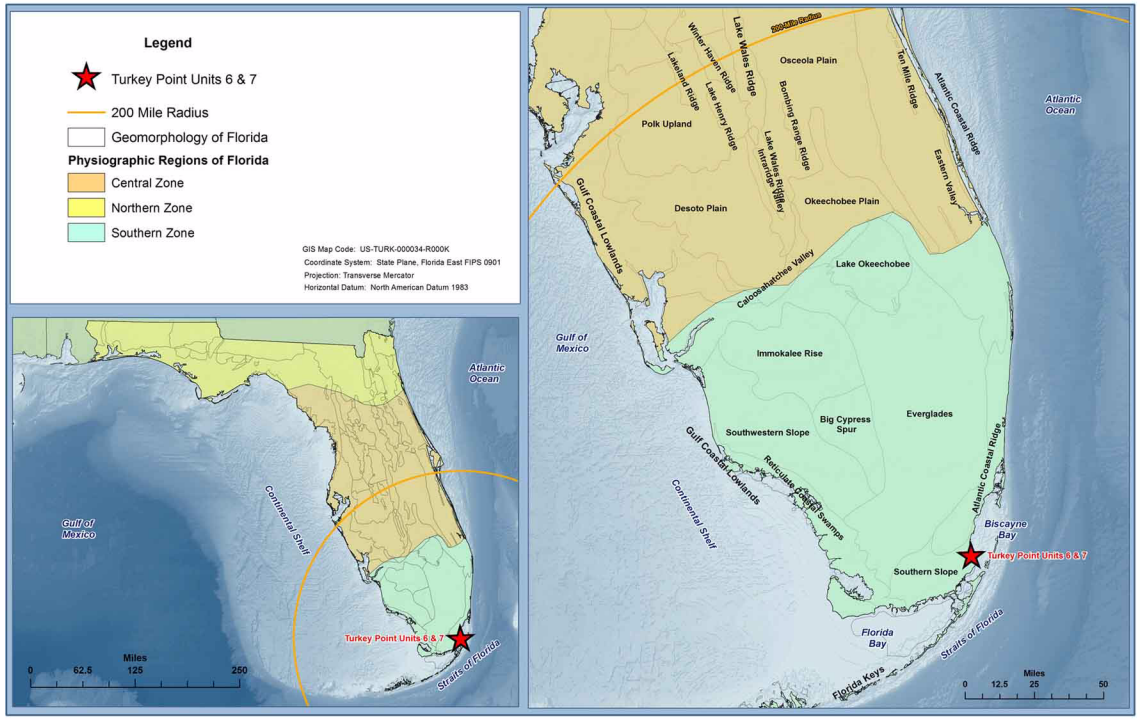
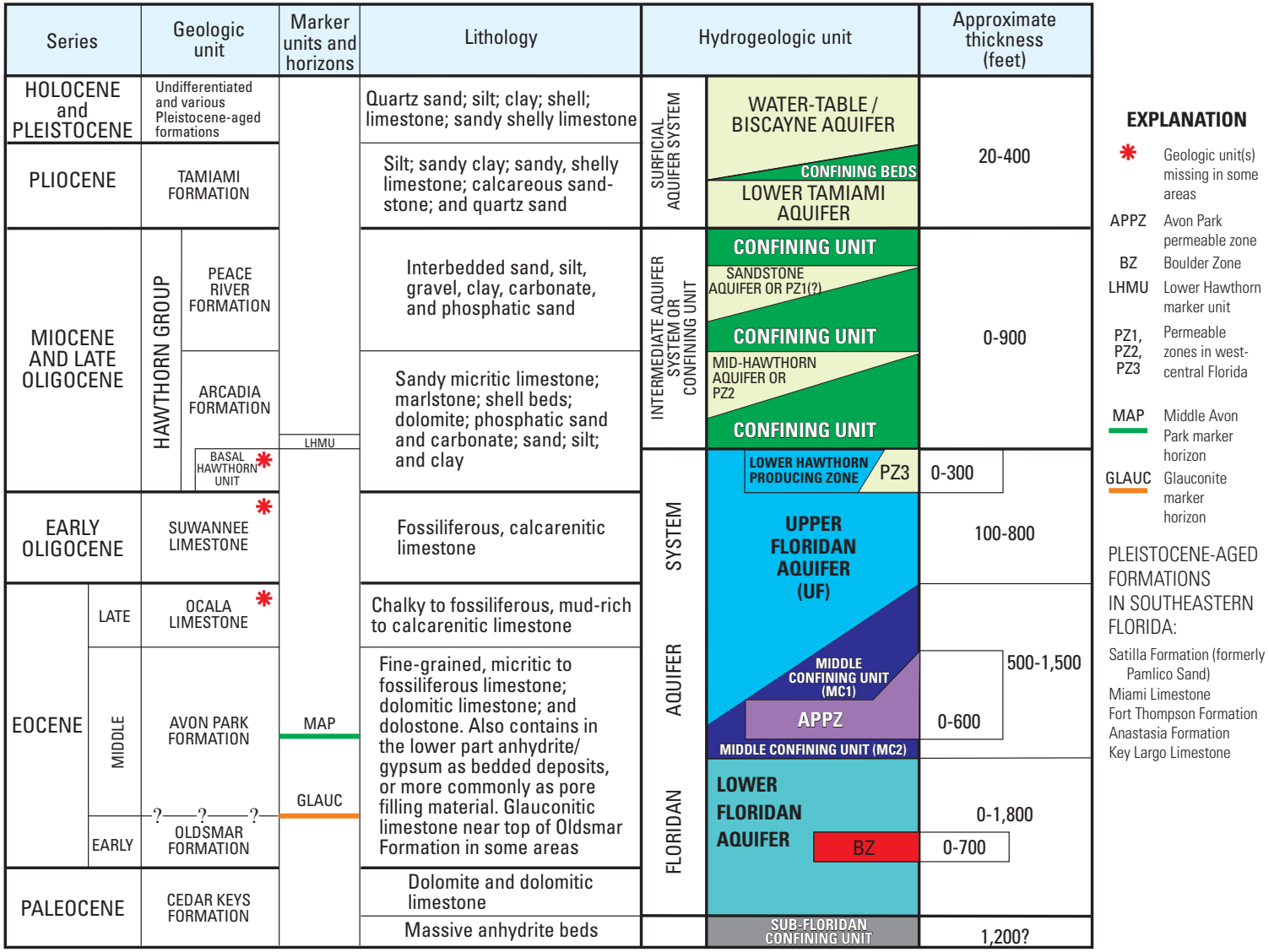


Figure 2.3-16 Physiographic Features



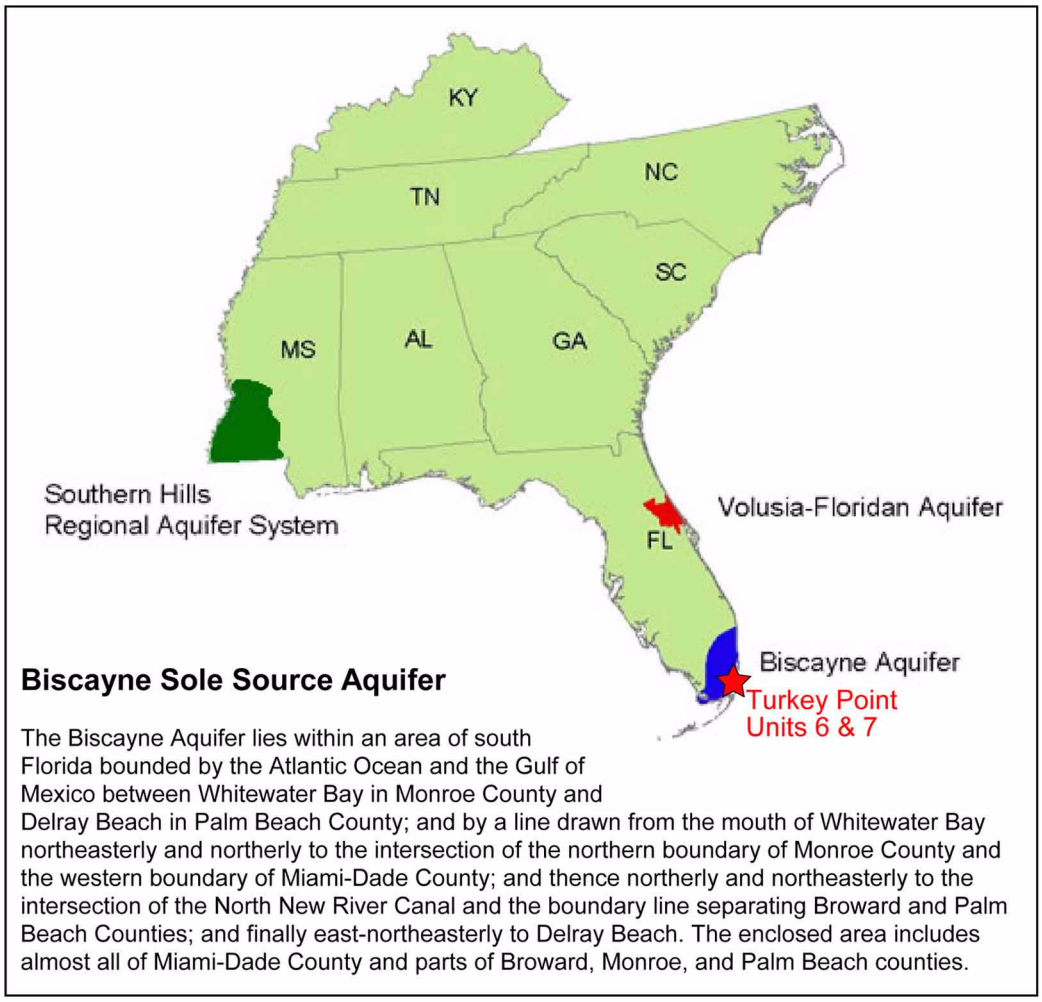
Modified from Randazzo and Jones 1997 and White 1970

Figure 2.3-17 Regional Generalized Hydrostratigraphic Column



Source: Reese and Richardson 2008

Figure 2.3-18 Approximate Boundaries of Region 4 Sole Source Aquifers



Modified from U.S. EPA 2008a

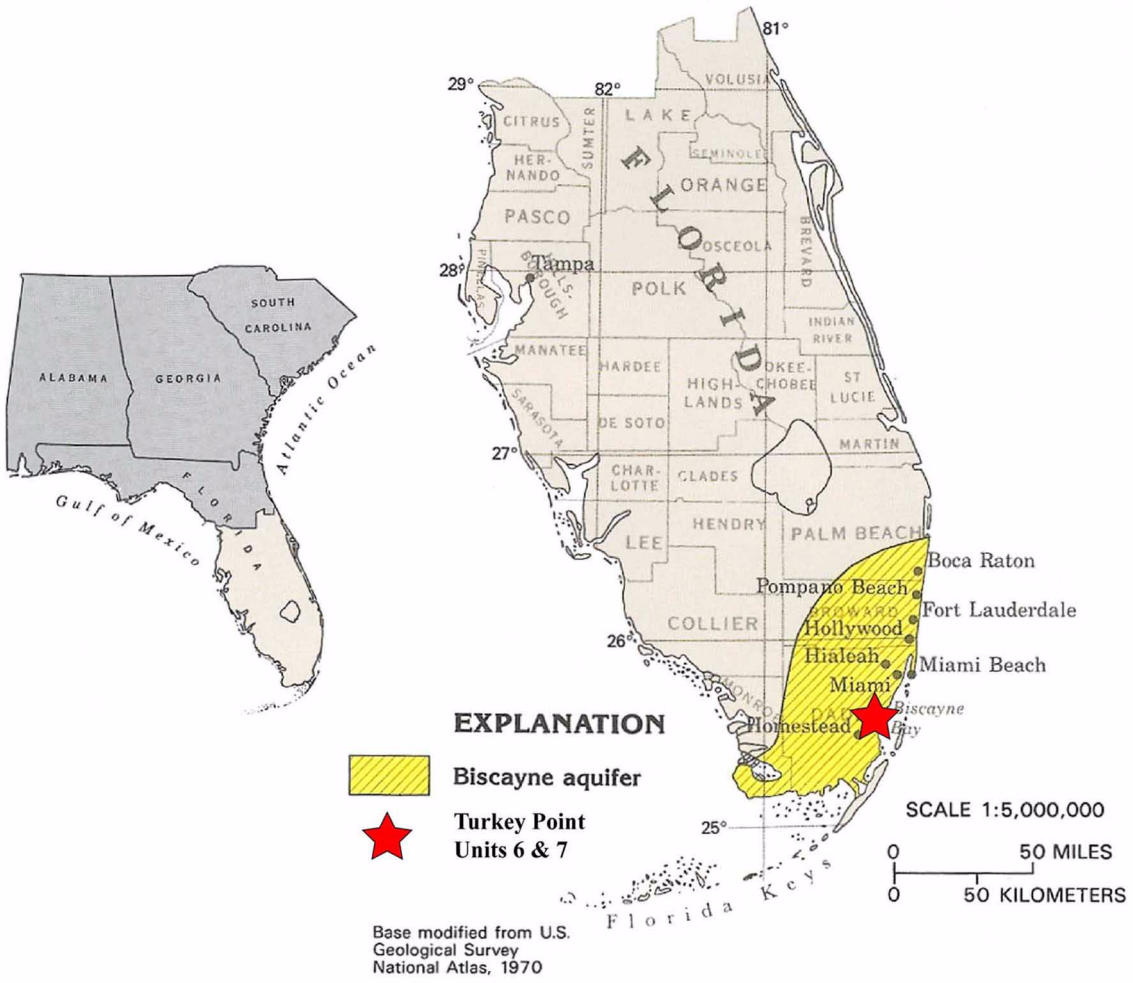
Figure 2.3-19 Site Hydrostratigraphic Column

ERATHEM	SYSTEM	SERIES	HYDRO-GEOLOGIC UNIT		STRATIGRAPHIC UNIT		LITHOLOGY	APPROXIMATE TOP ELEVATION (ft NAVD 88)	APPROXIMATE THICKNESS (ft)
CENEZOIC	QUATERNARY	HOLOCENE			organic muck		organic soil and silt	0	3
		PLEISTOCENE	Surficial aquifer system	Biscayne aquifer	Miami Limestone		sandy, oolitic limestone	-3	25
					Key Largo Limestone		well indurated, vuggy, coralline limestone	-28	22
					Fort Thompson Formation		poor/well indurated fossiliferous limestone	-50	65
	TERTIARY	PLIOCENE		Semi-confining unit	Tamiami Formation		sand and silt with calcarenitic limestone	-115	105
		MIOCENE	Intermediate confining unit		Hawthorn Group	Peace River Formation	silty calcareous sand and silt	formation contact based on natural gamma signature -220	235
						Arcadia Formation	calcareous wackestone with indurated limestones, sandstone, and sand	-455 drilling ended at -616.5 ft	>160

Color represents similar composition (carbonates, clastics, and organics).

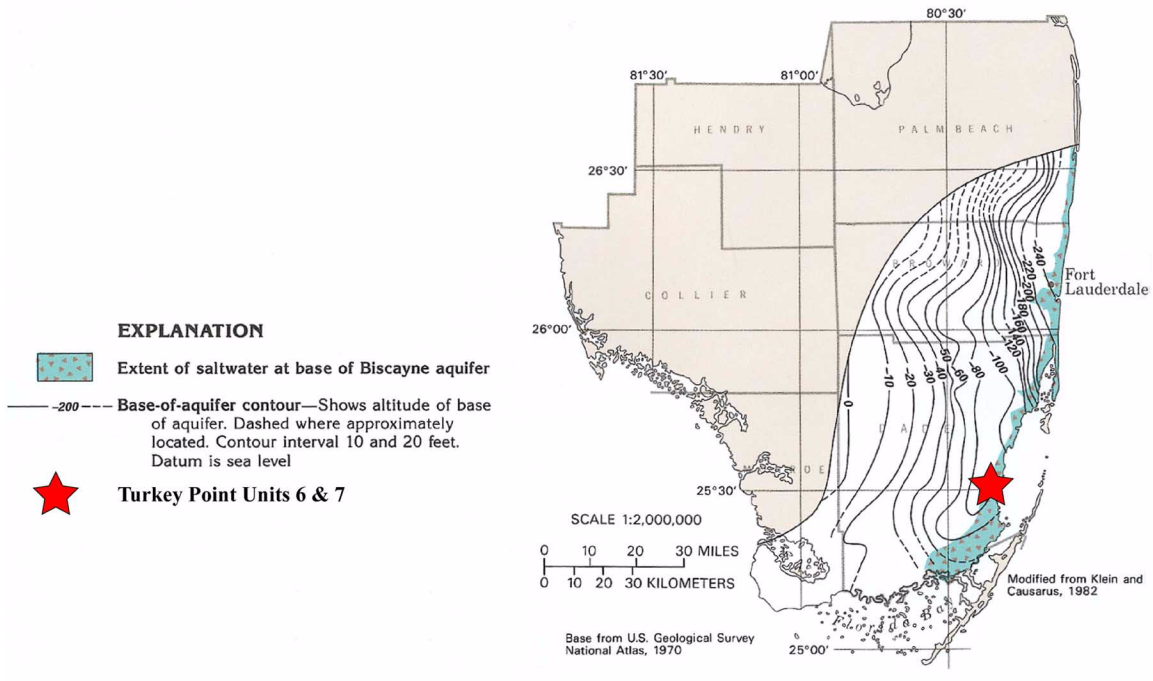
Figure 2.3-20 Not Used

Figure 2.3-21 Location of the Biscayne Aquifer in Southeast Florida



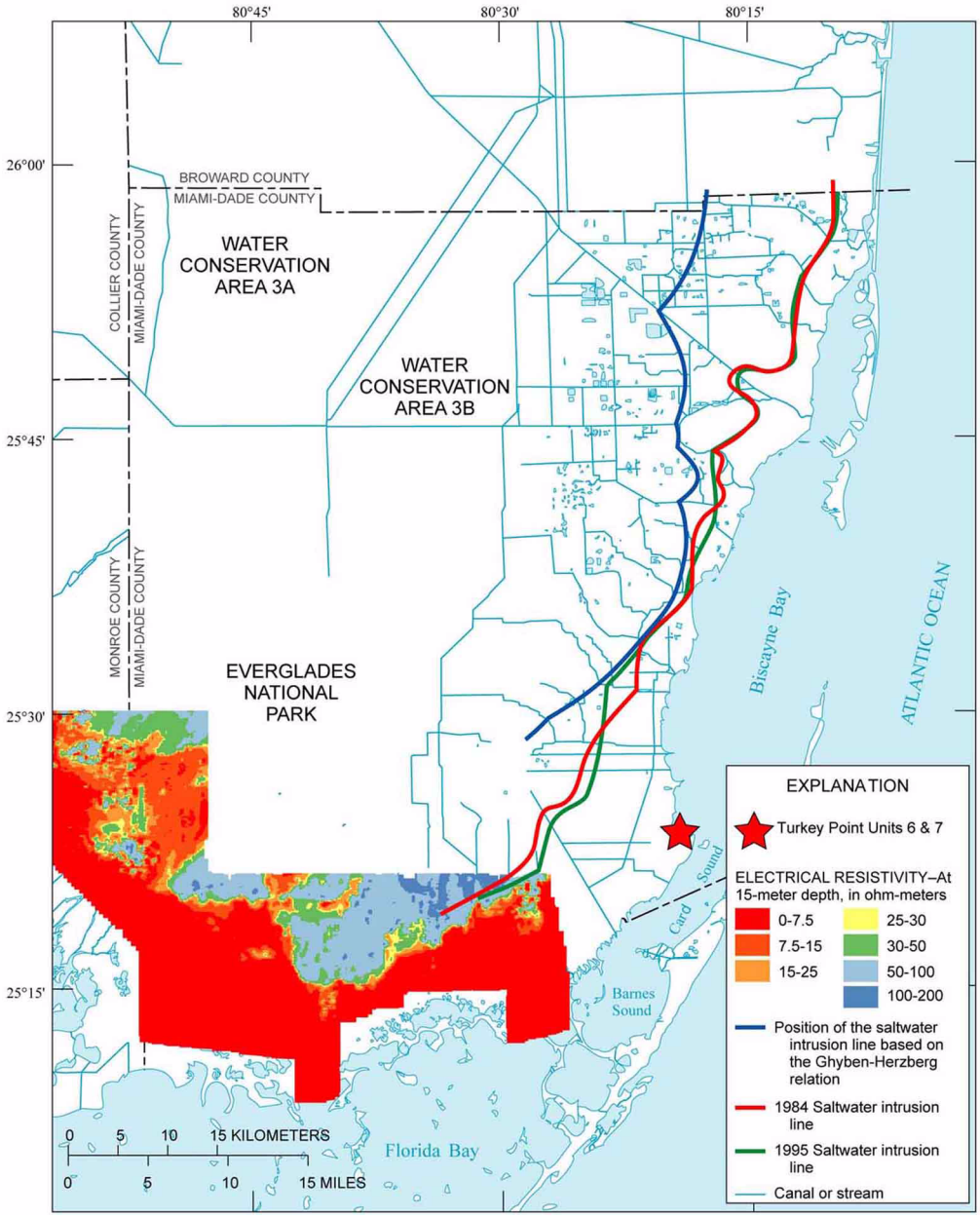
Modified from Miller 1990

Figure 2.3-22 Base of the Biscayne Aquifer



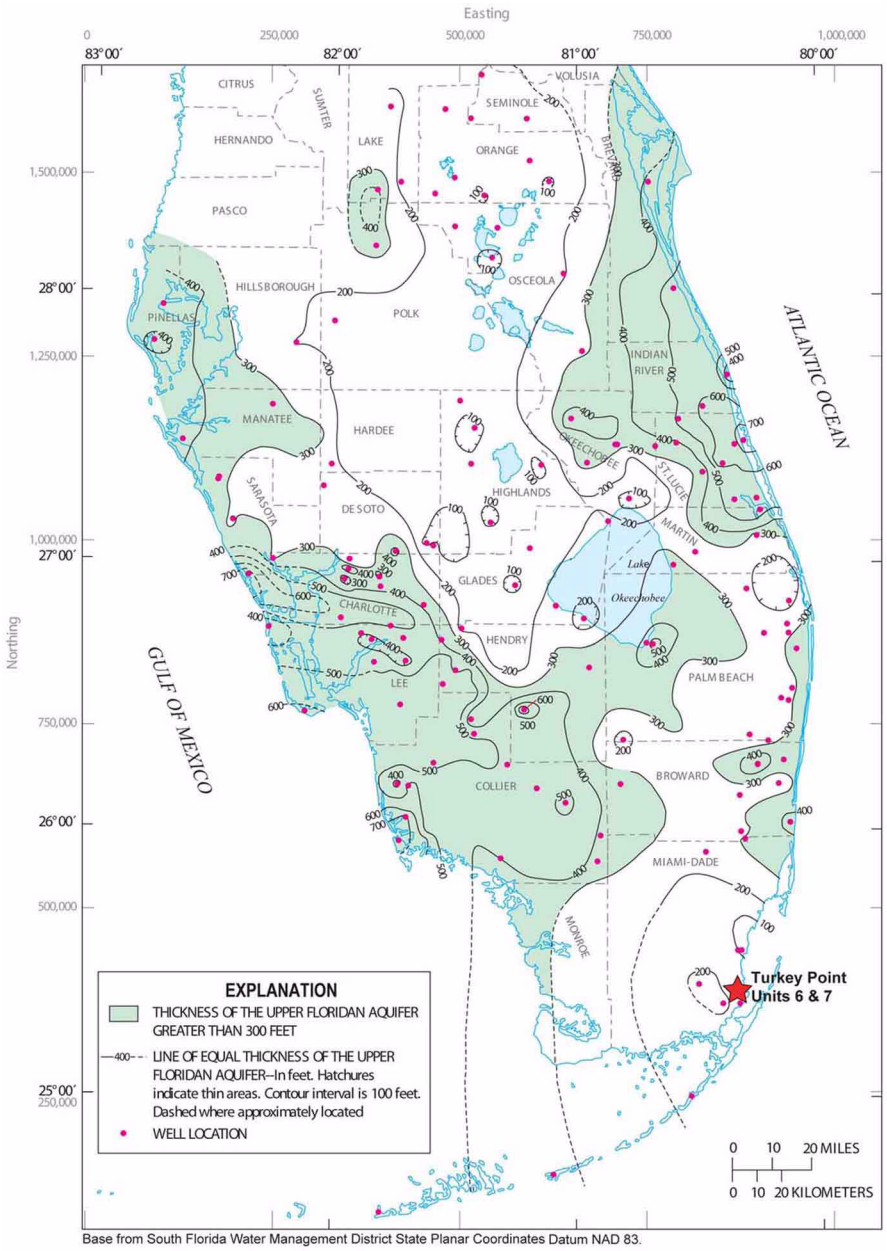
Modified from Miller 1990

Figure 2.3-23 Location of the Freshwater-Saltwater Interface



Modified from Langevin 2001

Figure 2.3-24 Thickness of the Upper Floridan Aquifer



Modified from Reese and Richardson 2008

Figure 2.3-25 Observation Well Location Plan

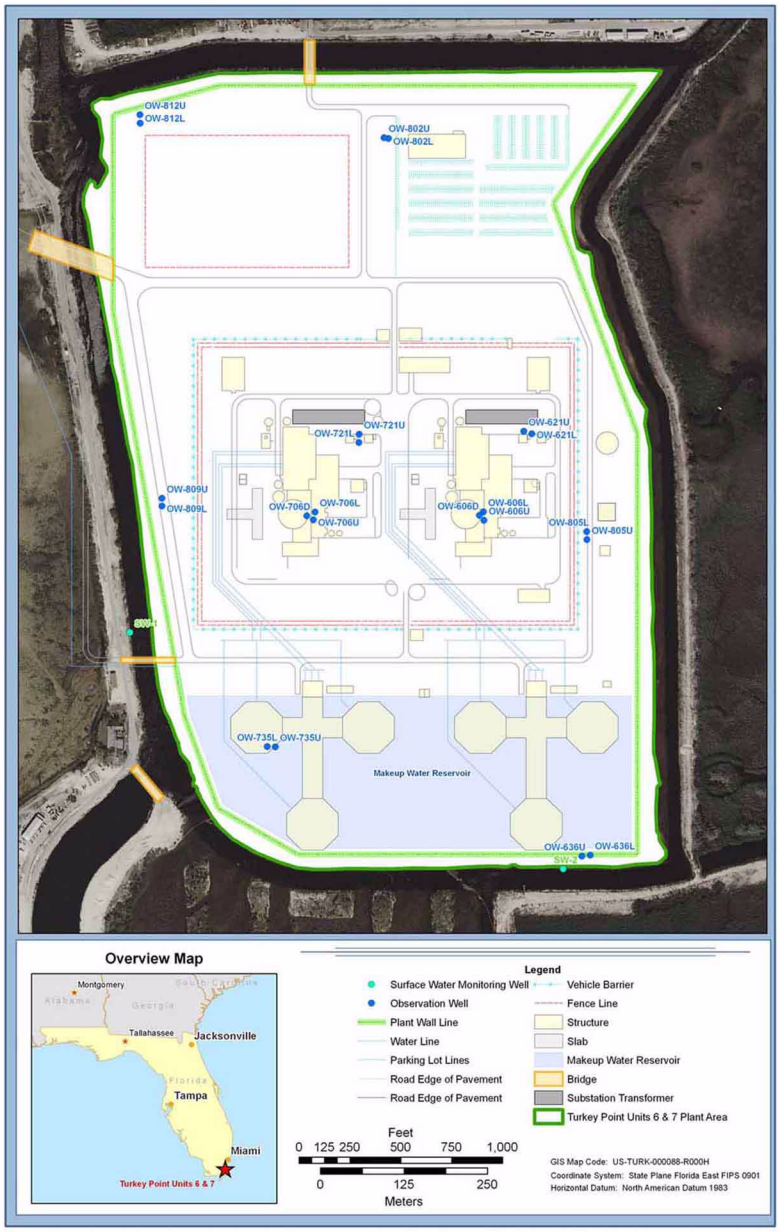
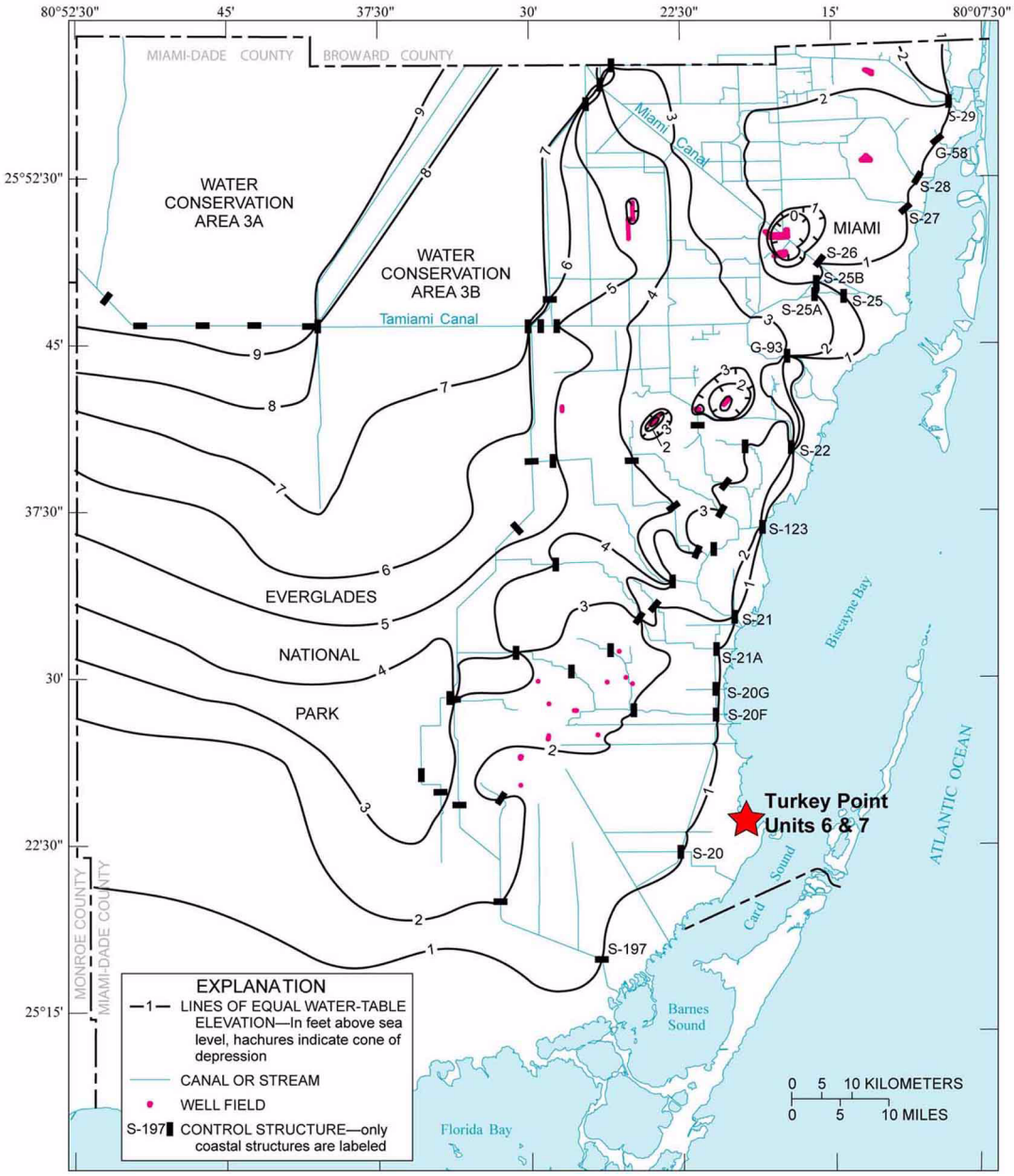
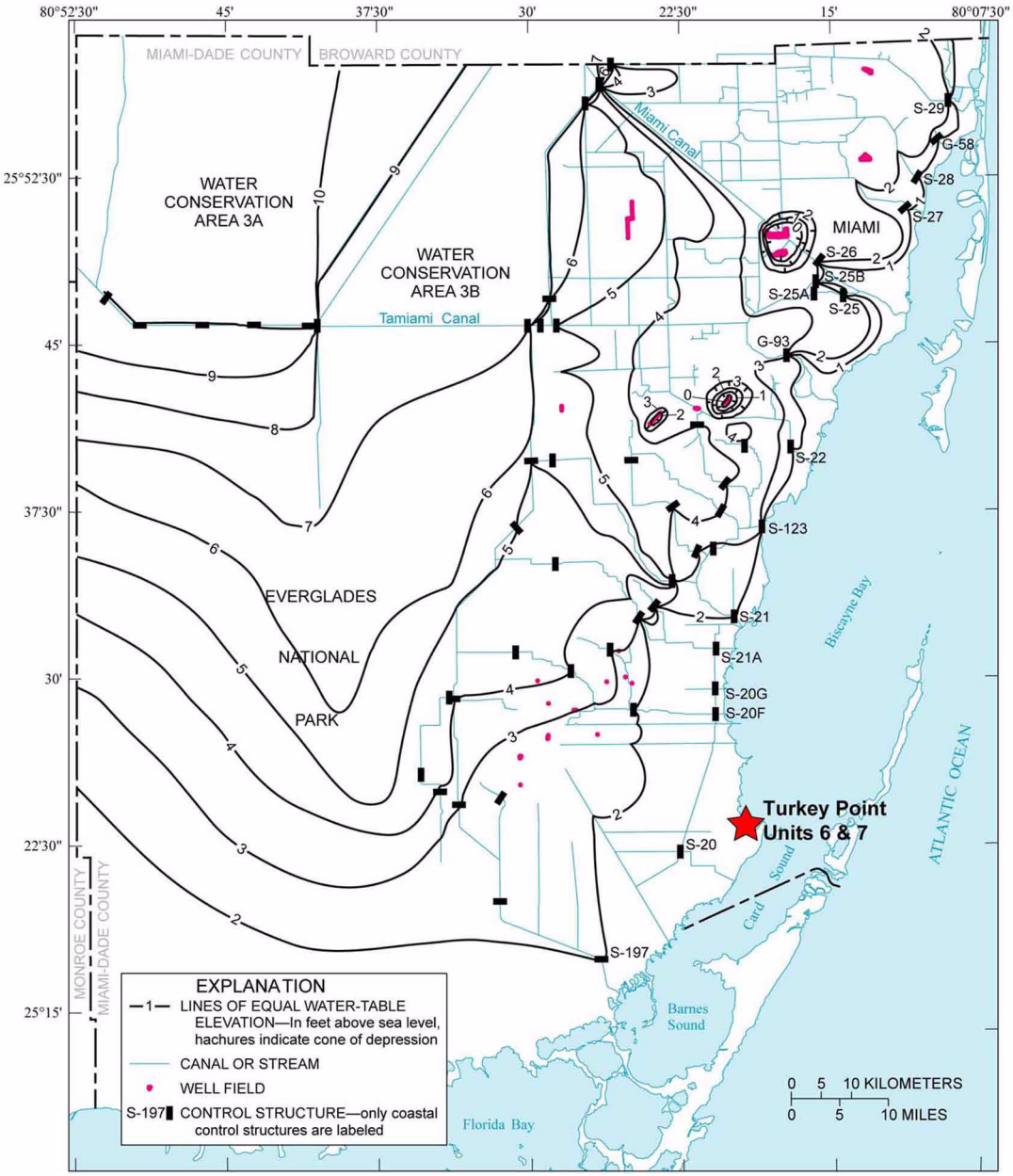


Figure 2.3-26 May 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

Figure 2.3-27 November 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

Figure 2.3-28 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, June 29, 2008 (Sheet 1 of 2) High Tide

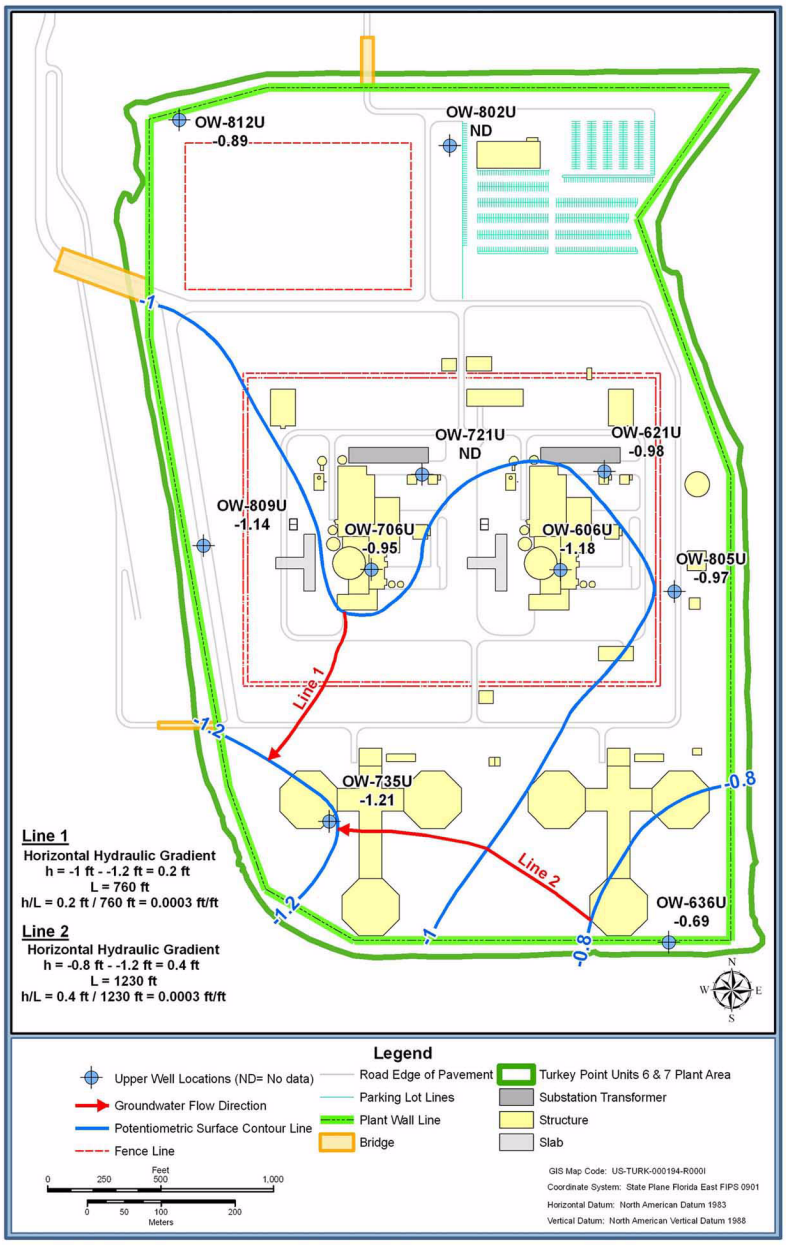


Figure 2.3-28 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, June 29, 2008 (Sheet 2 of 2) Low Tide

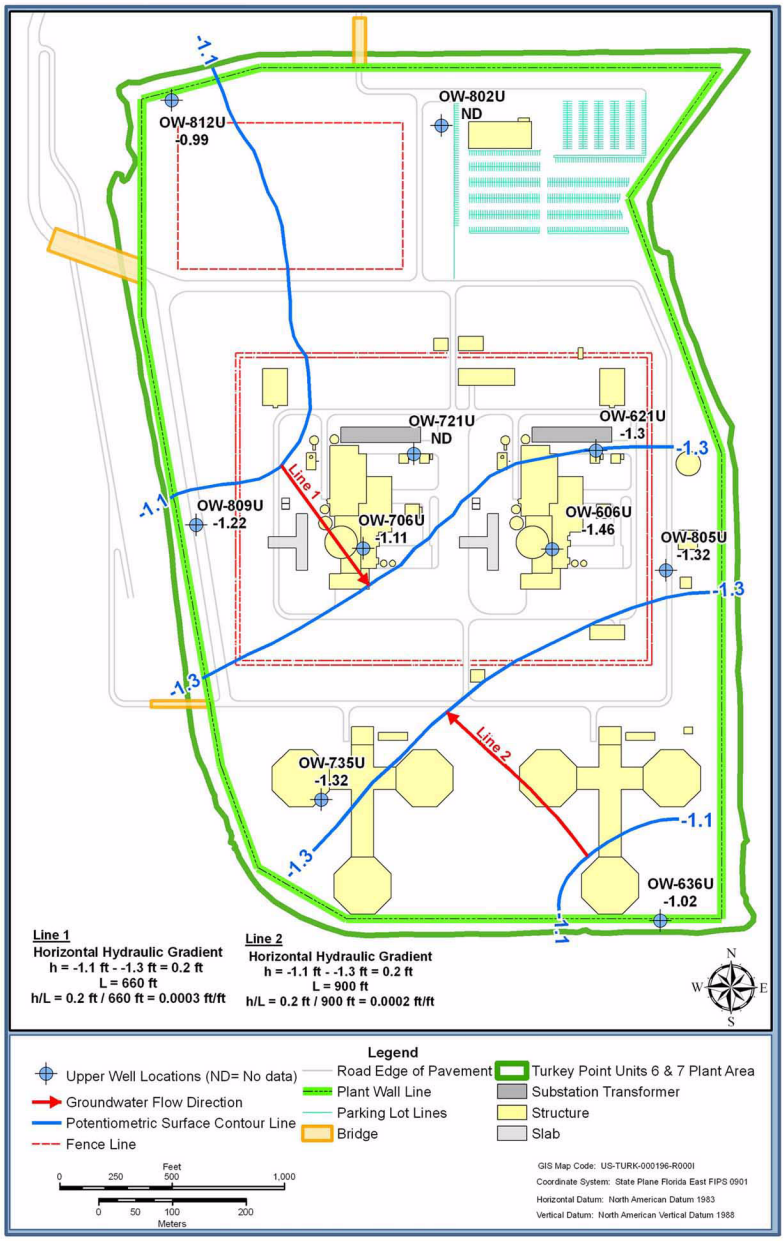


Figure 2.3-29 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, June 29, 2008 (Sheet 1 of 2) High Tide

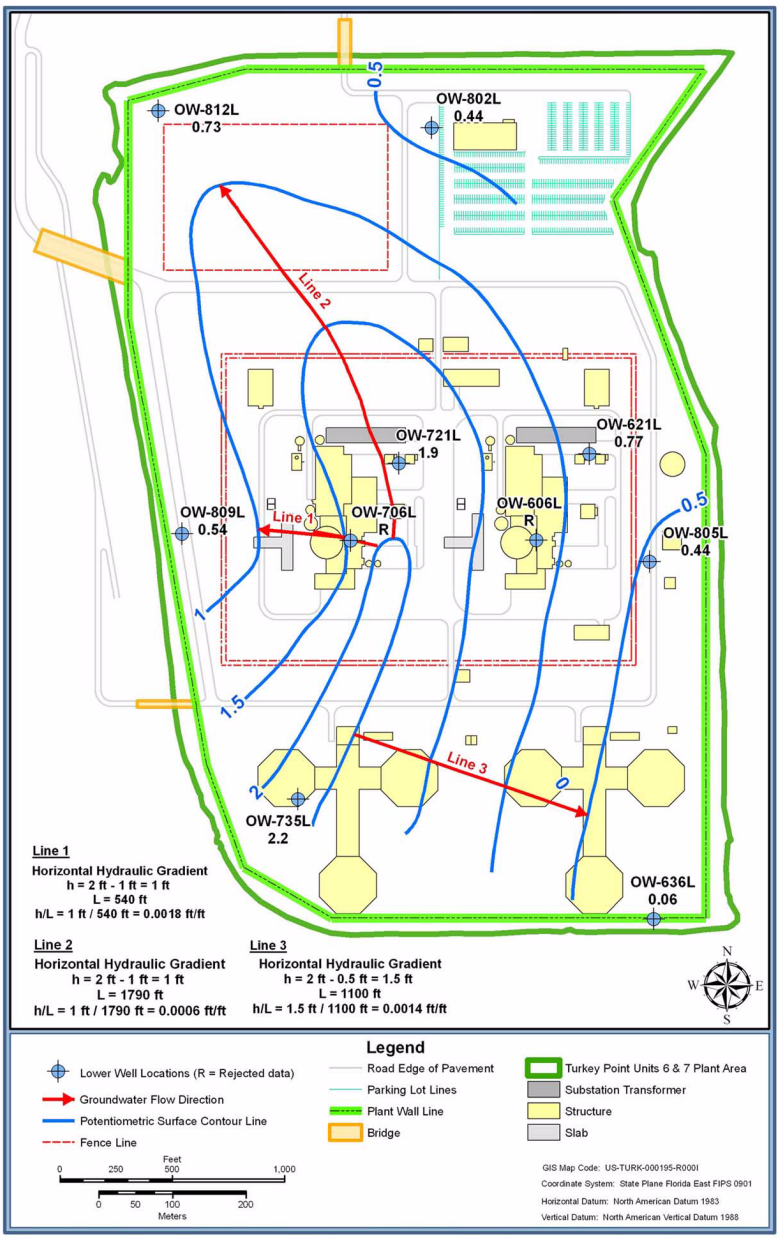


Figure 2.3-29 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, June 29, 2008 (Sheet 2 of 2) Low Tide

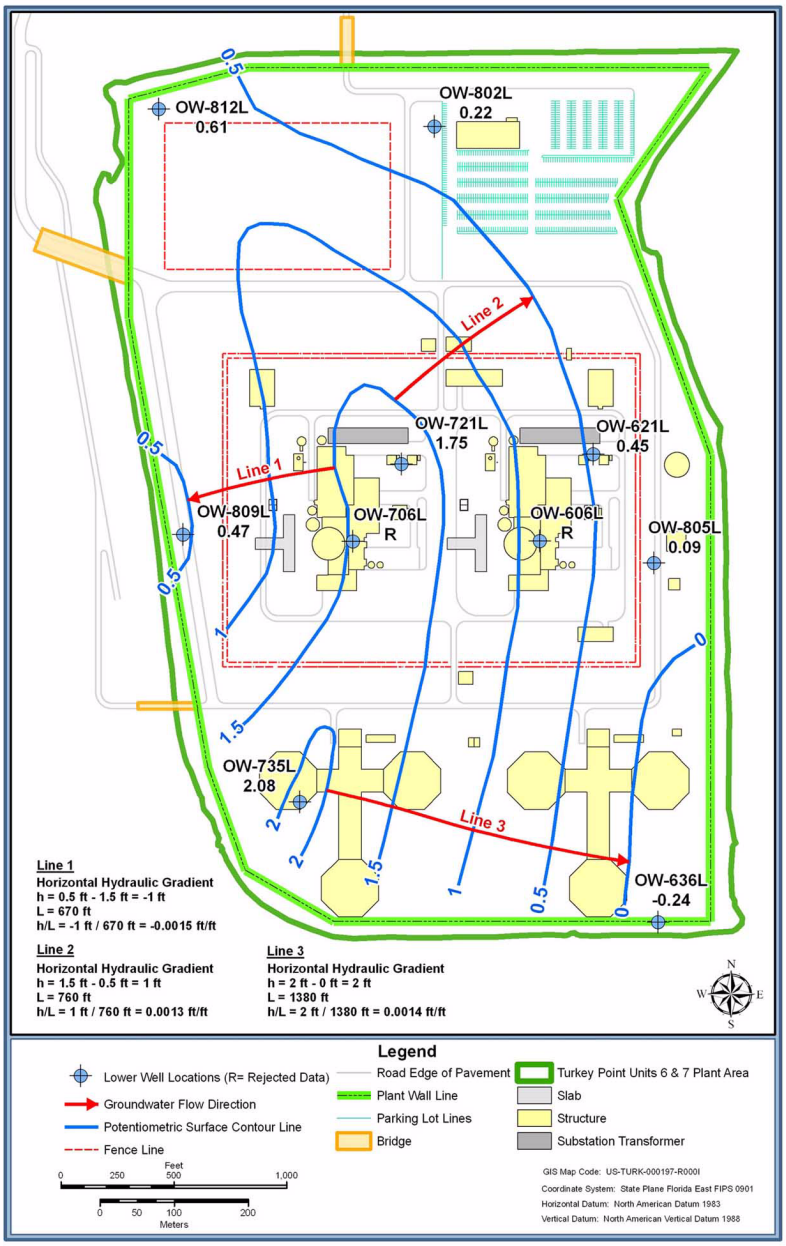


Figure 2.3-30 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, August 15, 2008 (Sheet 1 of 2) High Tide

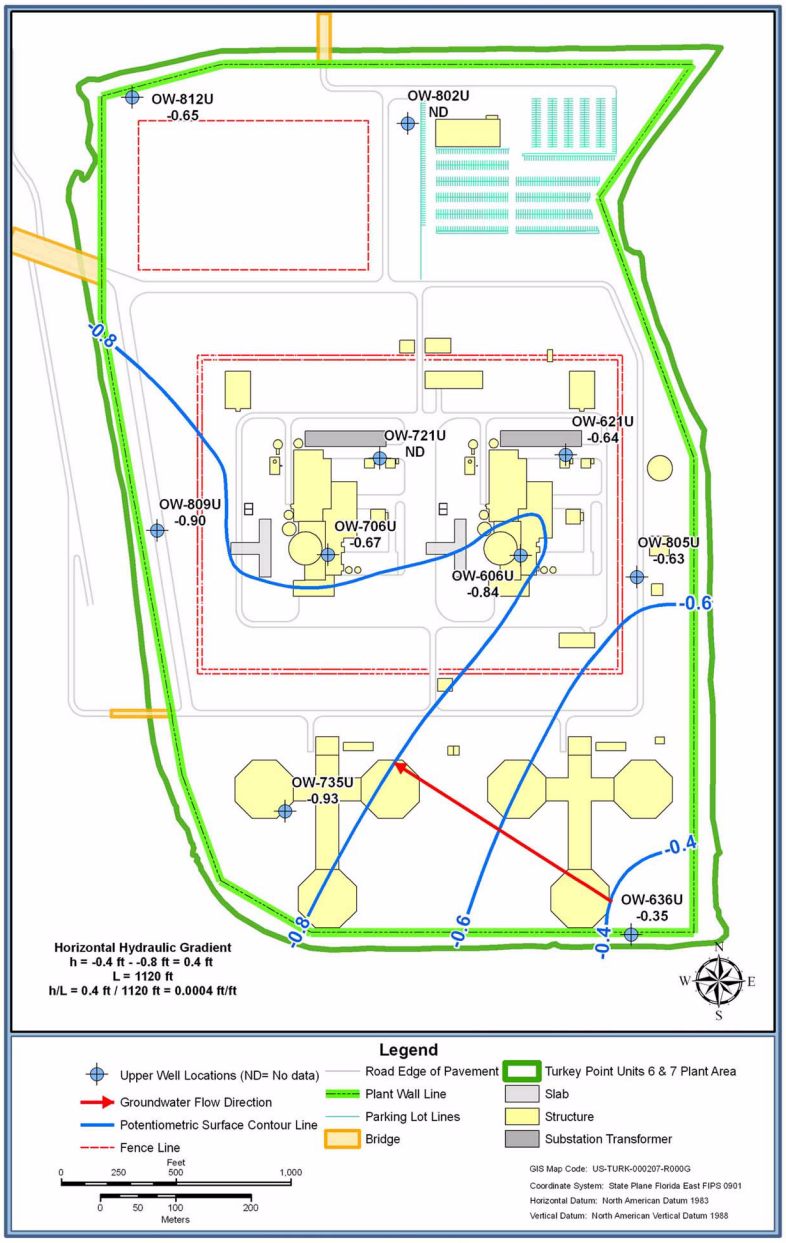


Figure 2.3-30 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, August 15, 2008 (Sheet 2 of 2) Low Tide

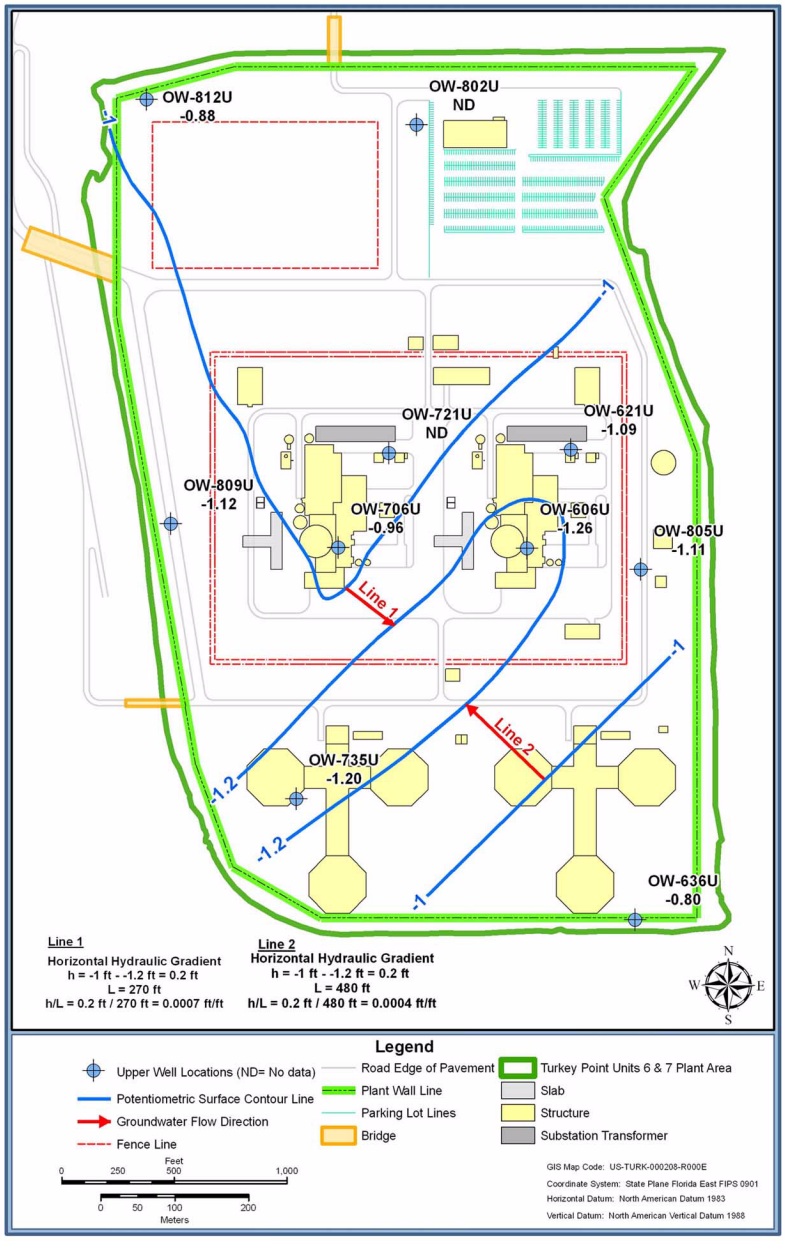


Figure 2.3-31 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, August 15, 2008 (Sheet 1 of 2) High Tide

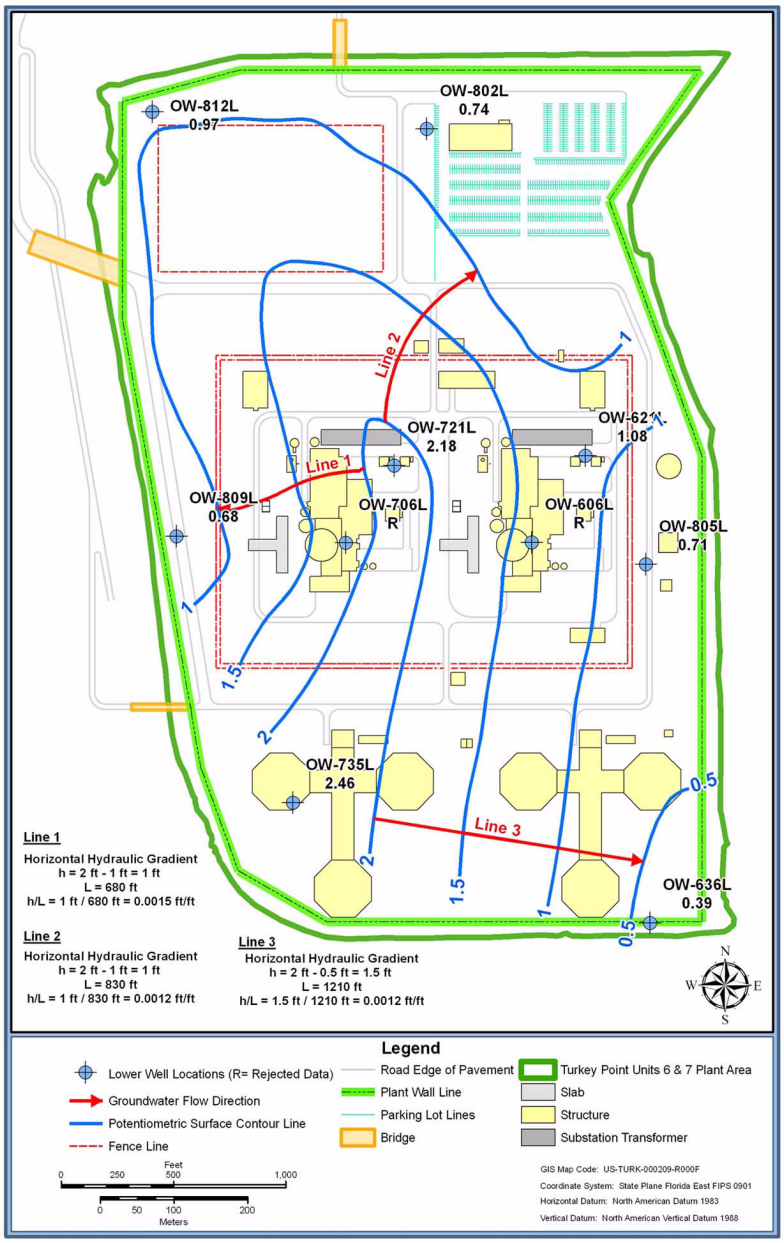
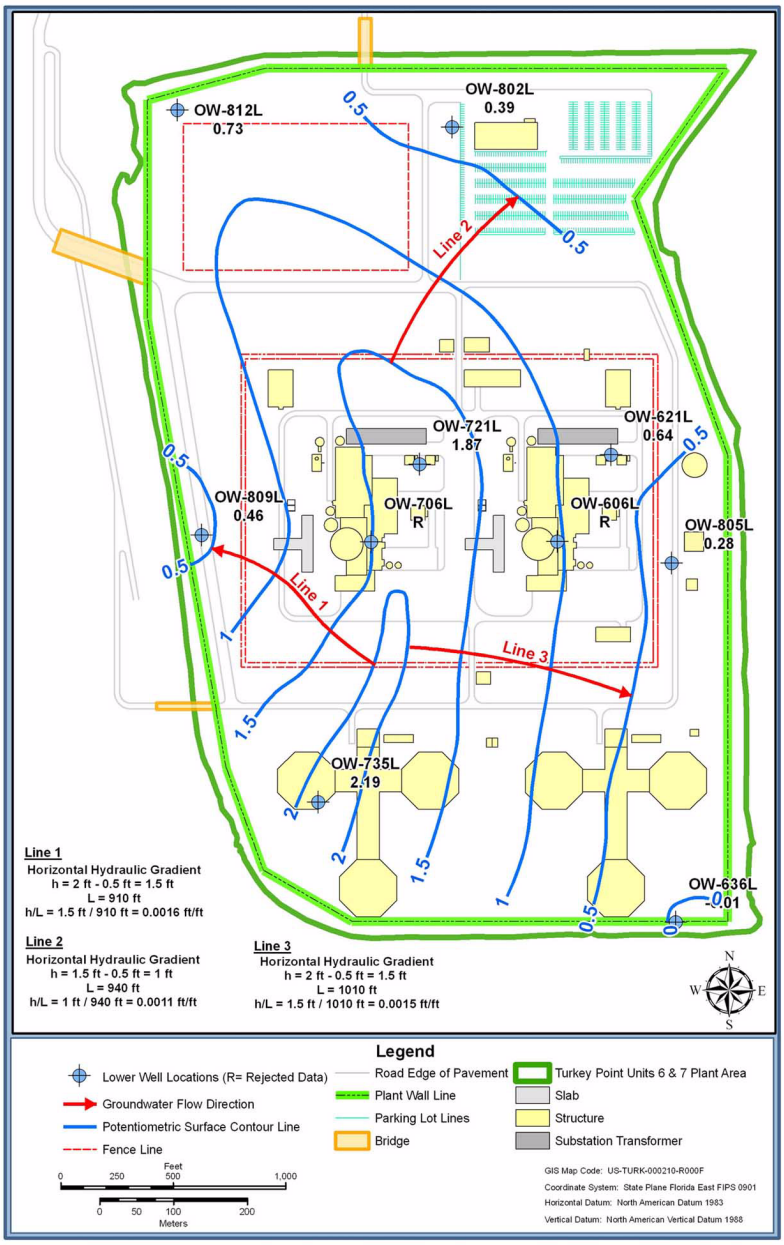



Figure 2.3-31 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, August 15, 2008 (Sheet 2 of 2) Low Tide