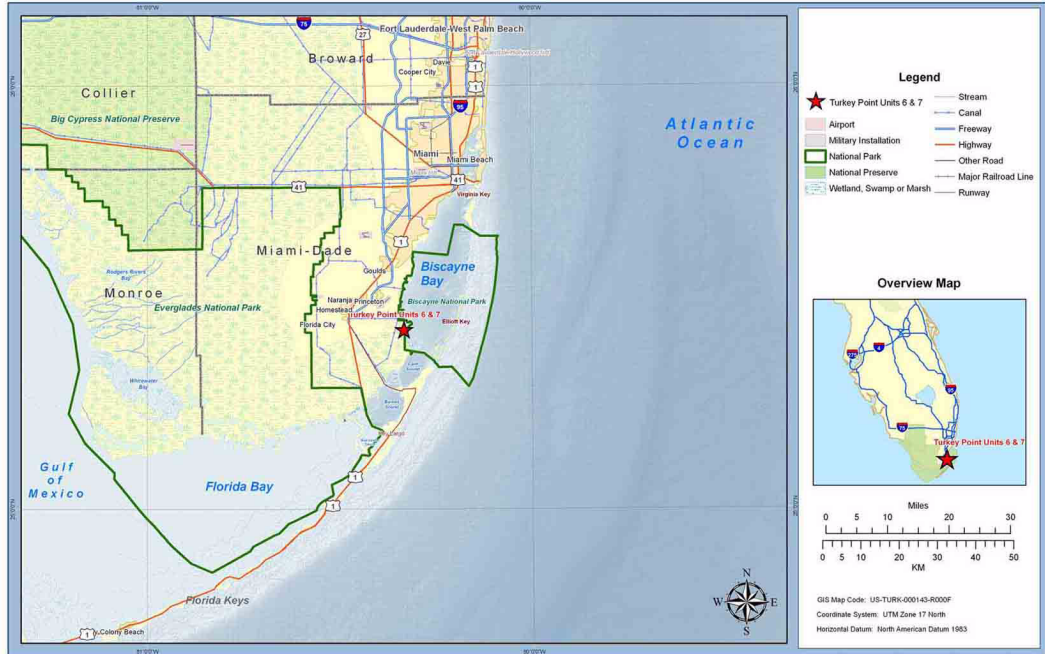


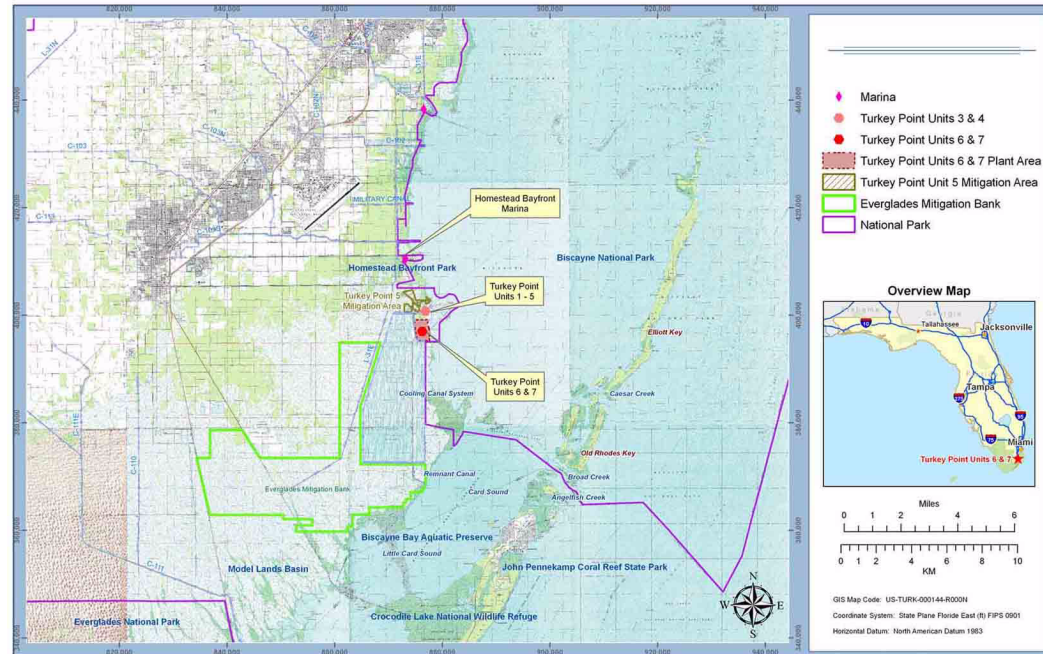
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

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



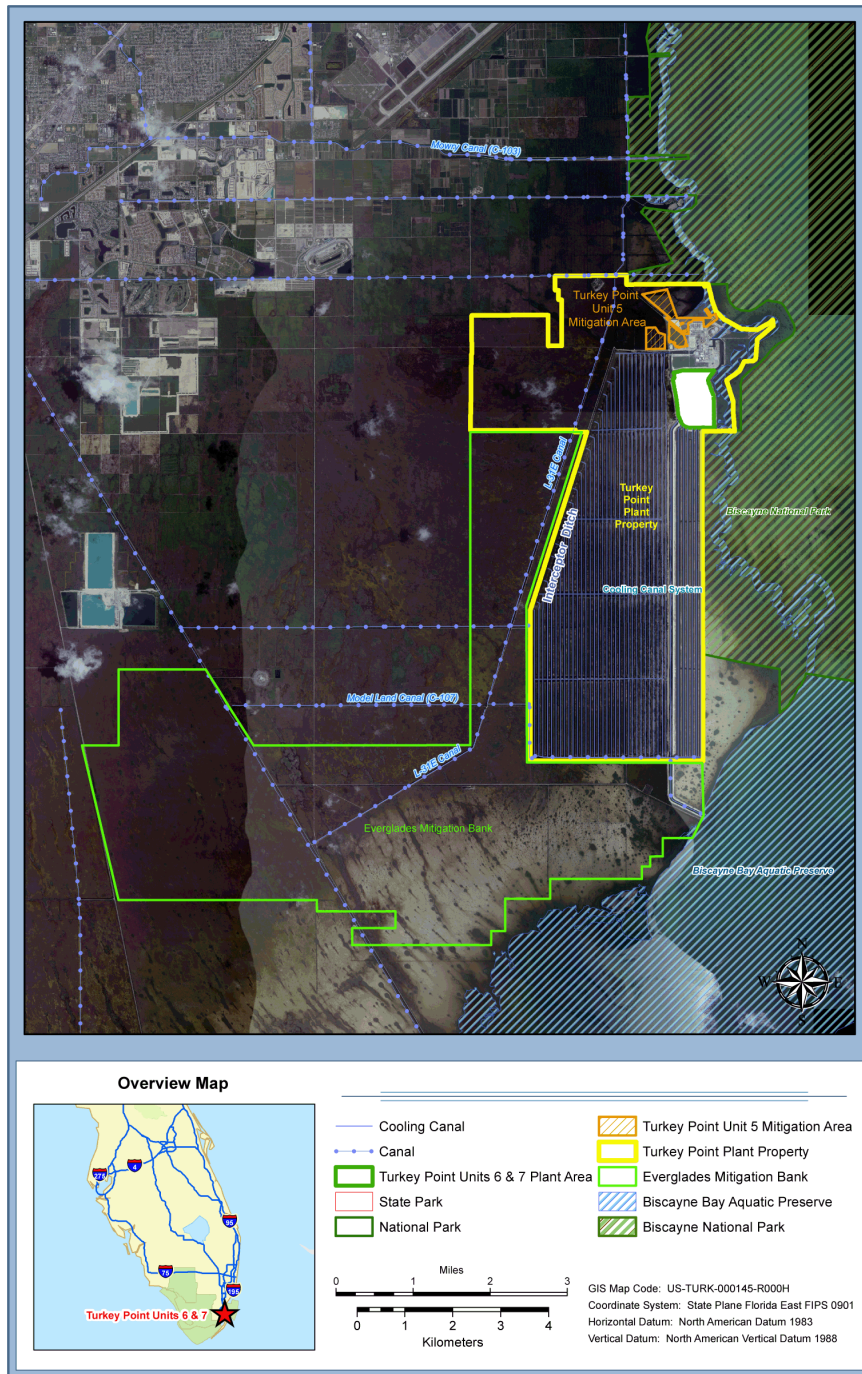
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

Figure 2.3-2 Areas Surrounding the Turkey Point Plant Property



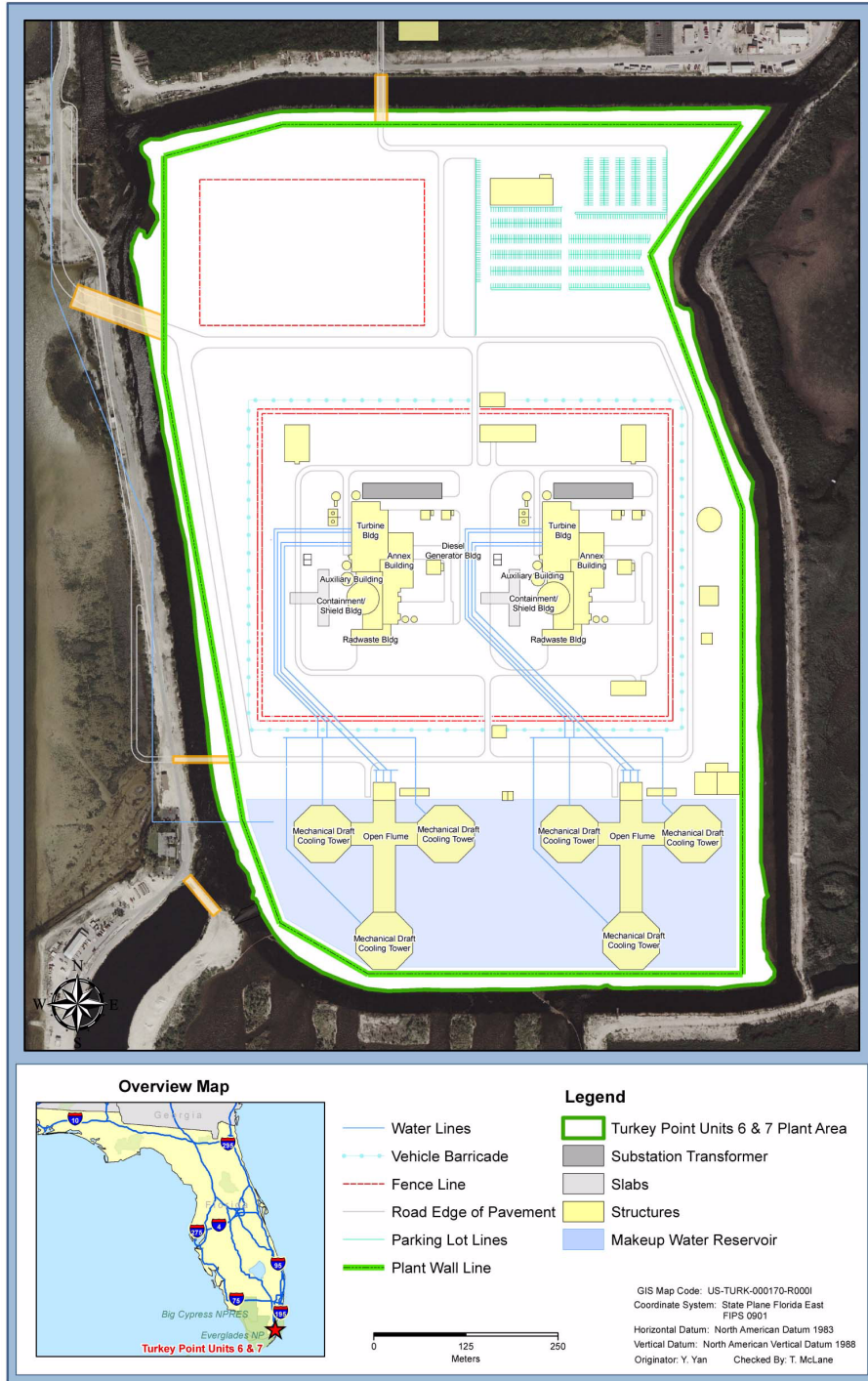
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



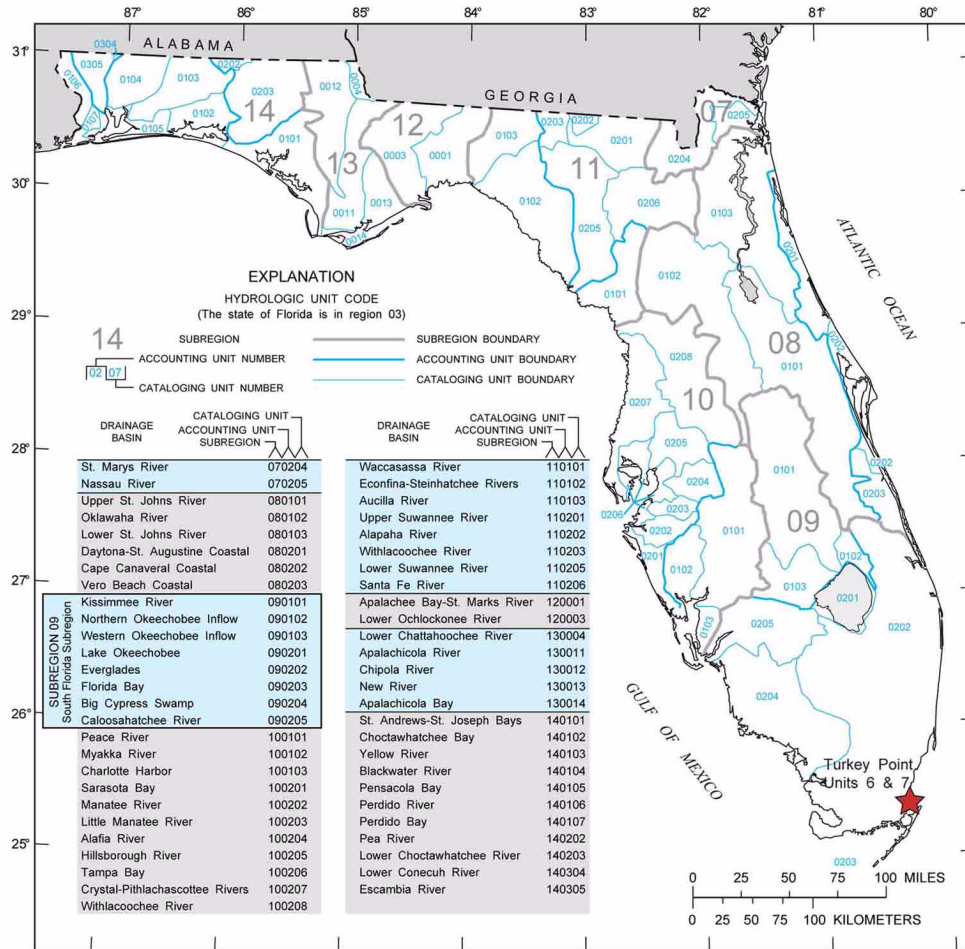
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

Figure 2.3-4 General Arrangement of Units 6 & 7



Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

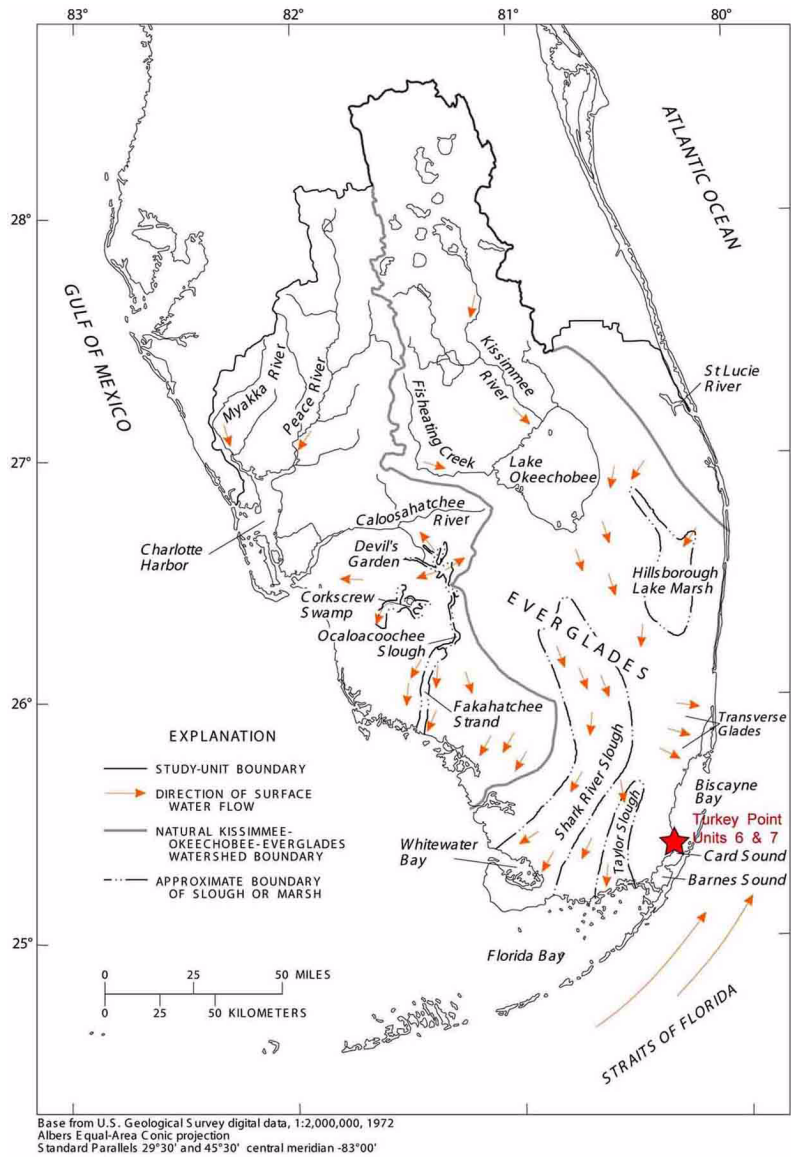
Figure 2.3-5 Map of South Florida Watershed Subregions



Modified from Marella 1999

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

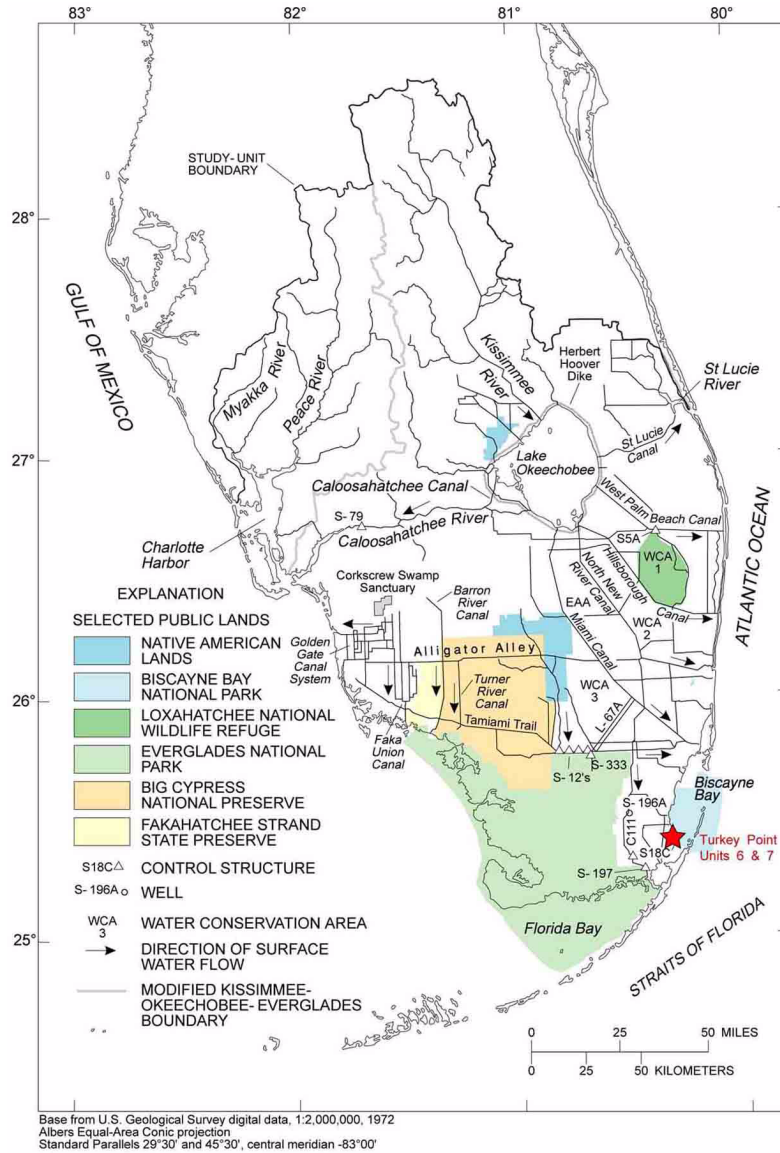
**Figure 2.3-6 Hydrologic Features and Predevelopment Flow Patterns within the South Florida Watershed**



Modified from McPherson and Halley 1997

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

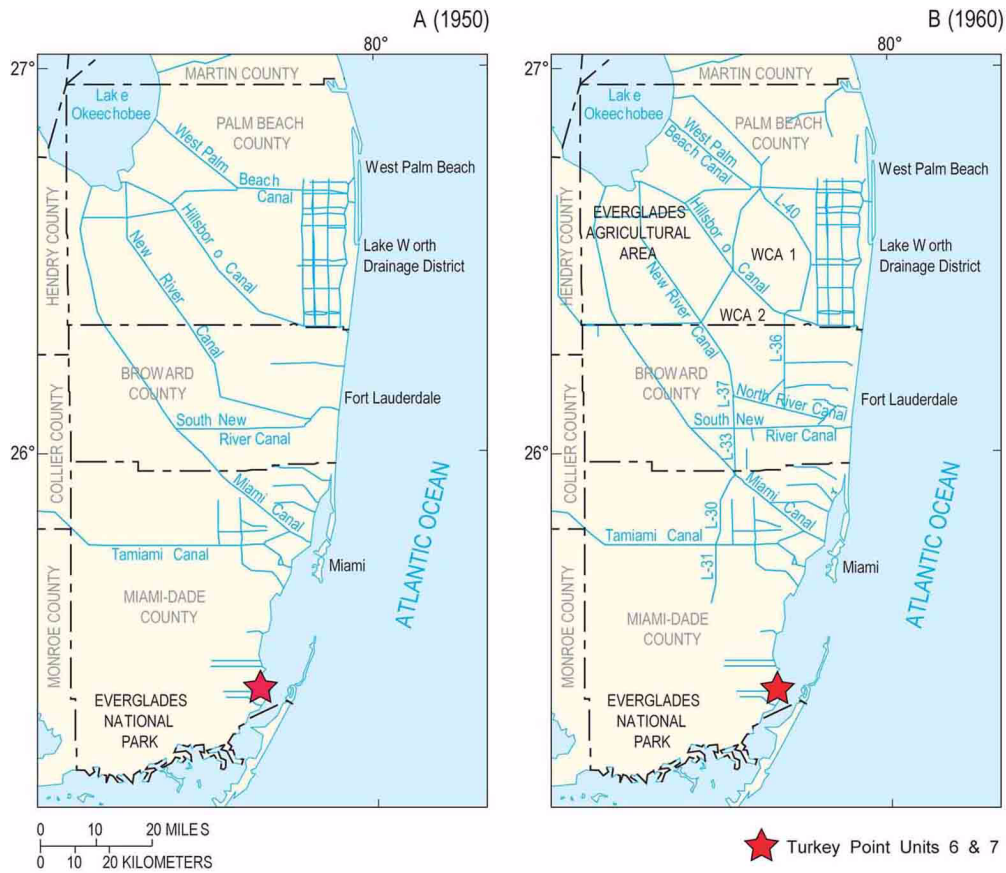
Figure 2.3-7 Selected Public Lands and Post-Development Flow Alteration within the South Florida Watershed



Modified from McPherson and Halley 1997

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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

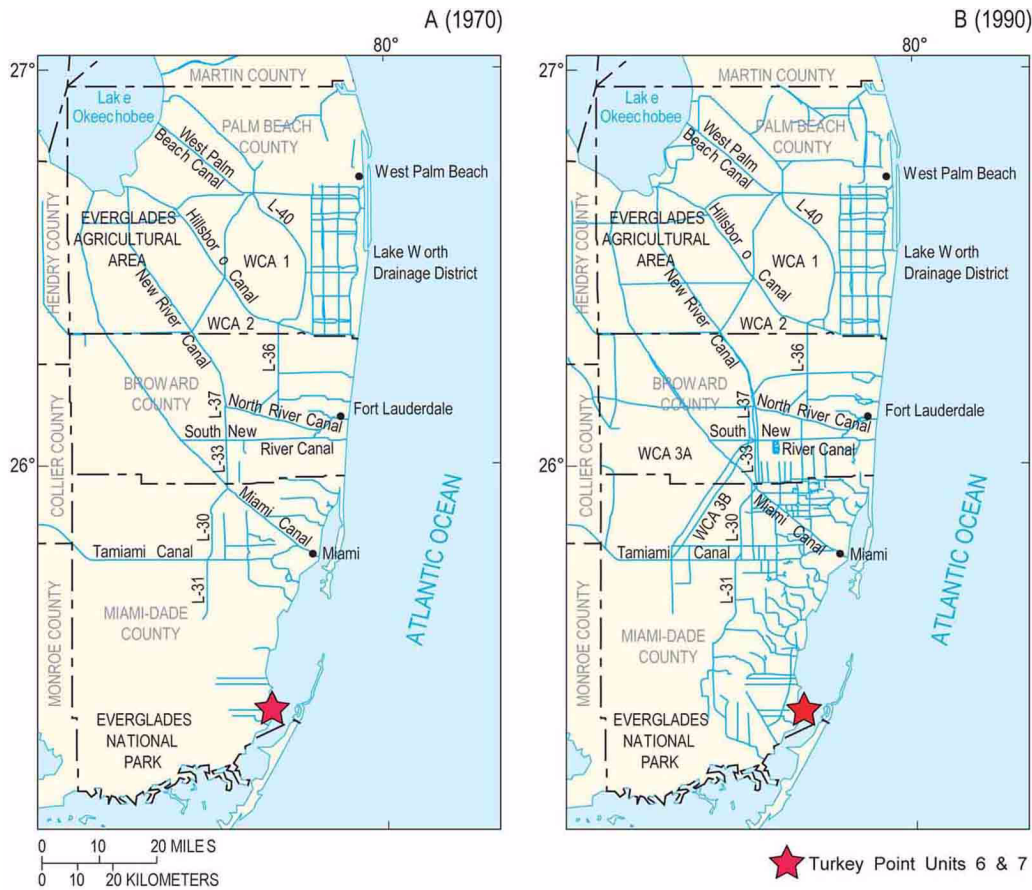


Modified from Renken et al. 2005



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

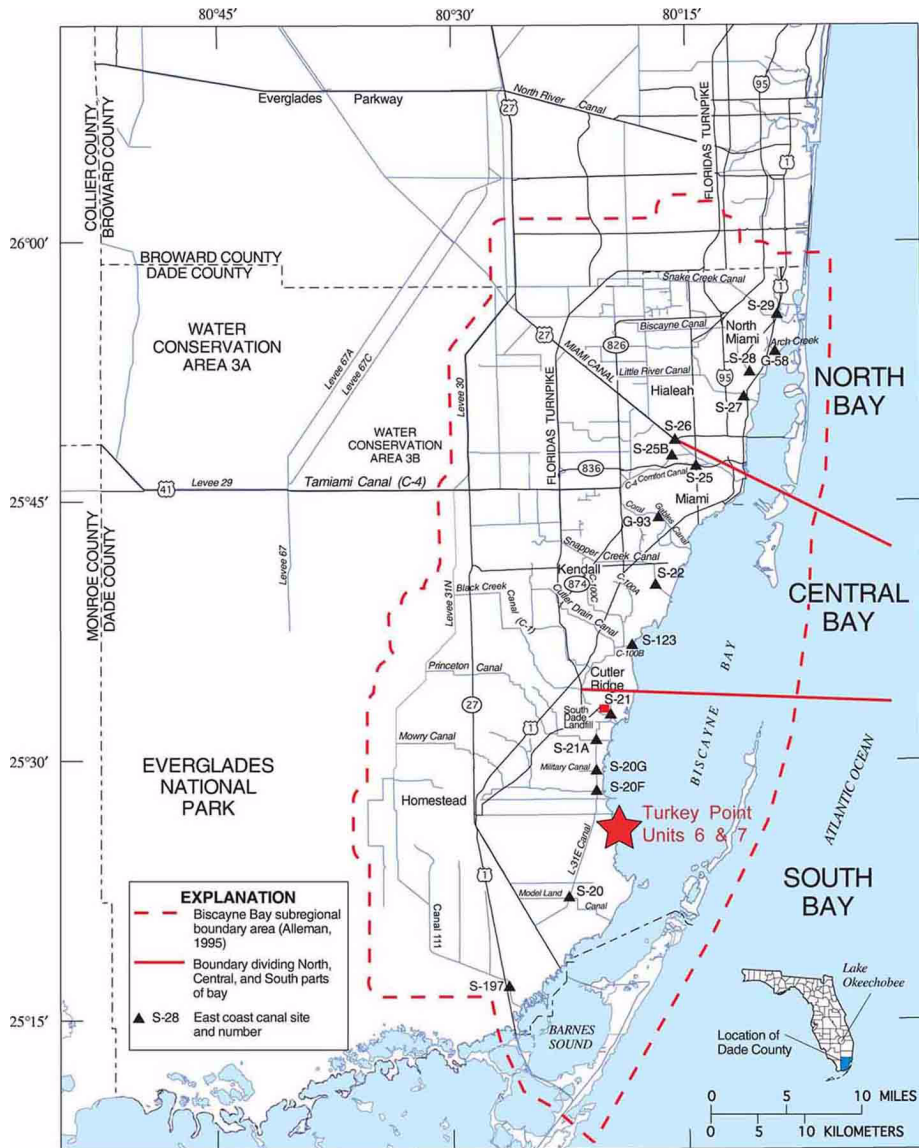
**Figure 2.3-9 Surface Water Conveyance System in the South Florida Region in (A) 1970 and (B) 1990**



Modified from Renken et al. 2005

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

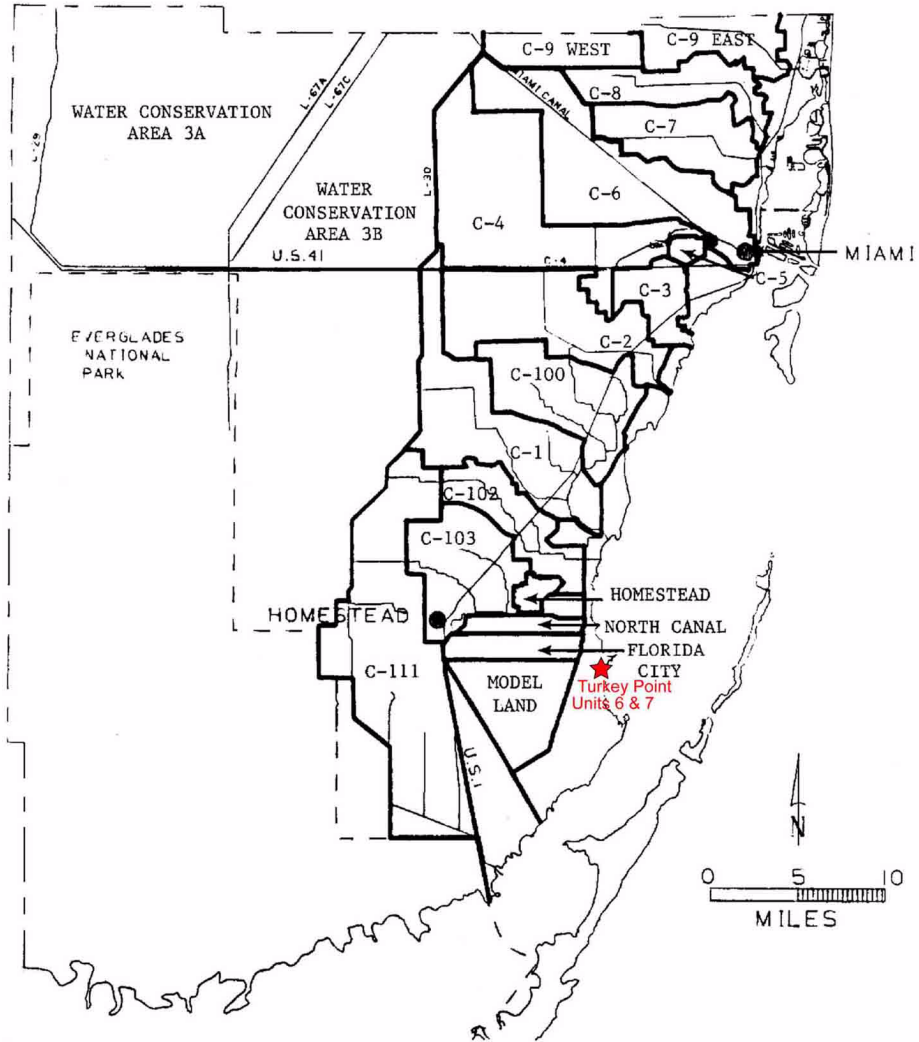
Figure 2.3-10 Locations of ENP-SDCS and C&SF Project Canals, Coastal Control Structures, and Planning Zones of the Biscayne Bay



Modified from Lietz 1999

Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

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

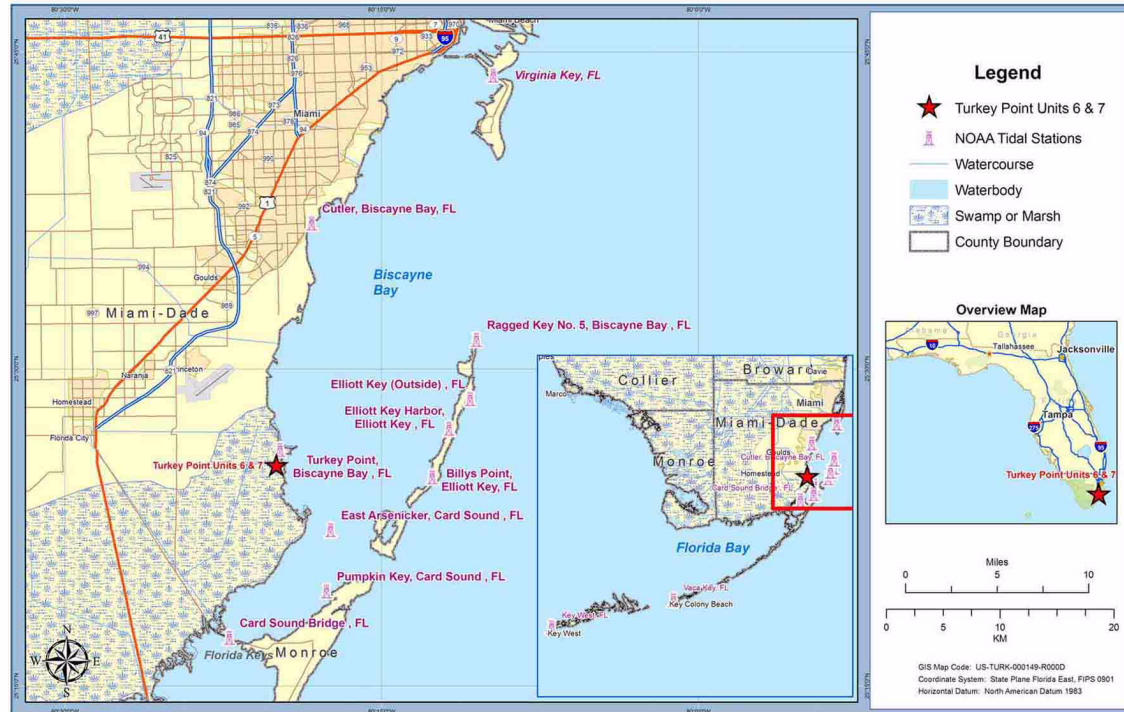


Location of Turkey Point Units 6 & 7 is approximate.

Modified from Cooper and Lane 1987

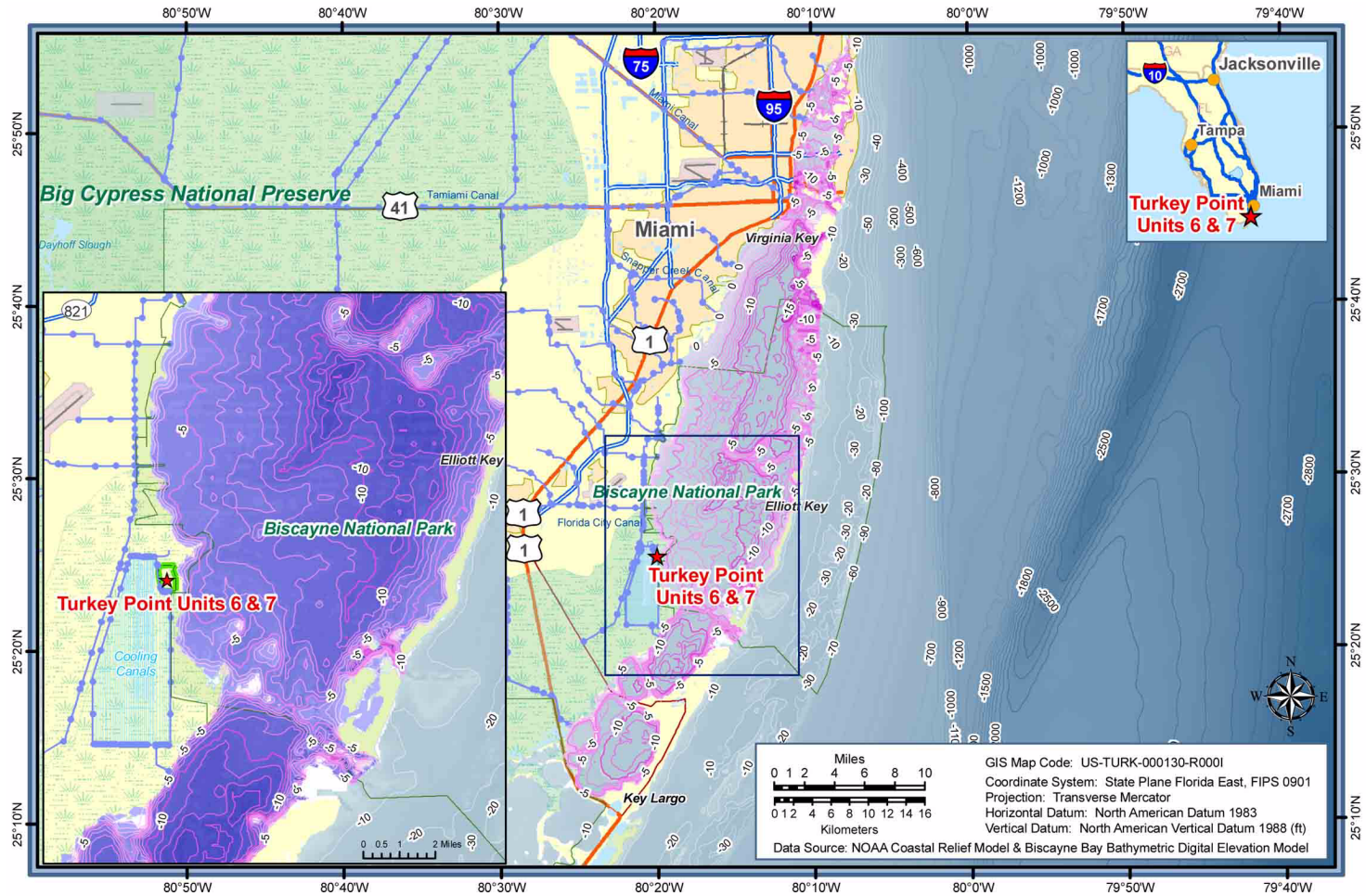
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

Figure 2.3-12 Locations of NOAA Tide Gages



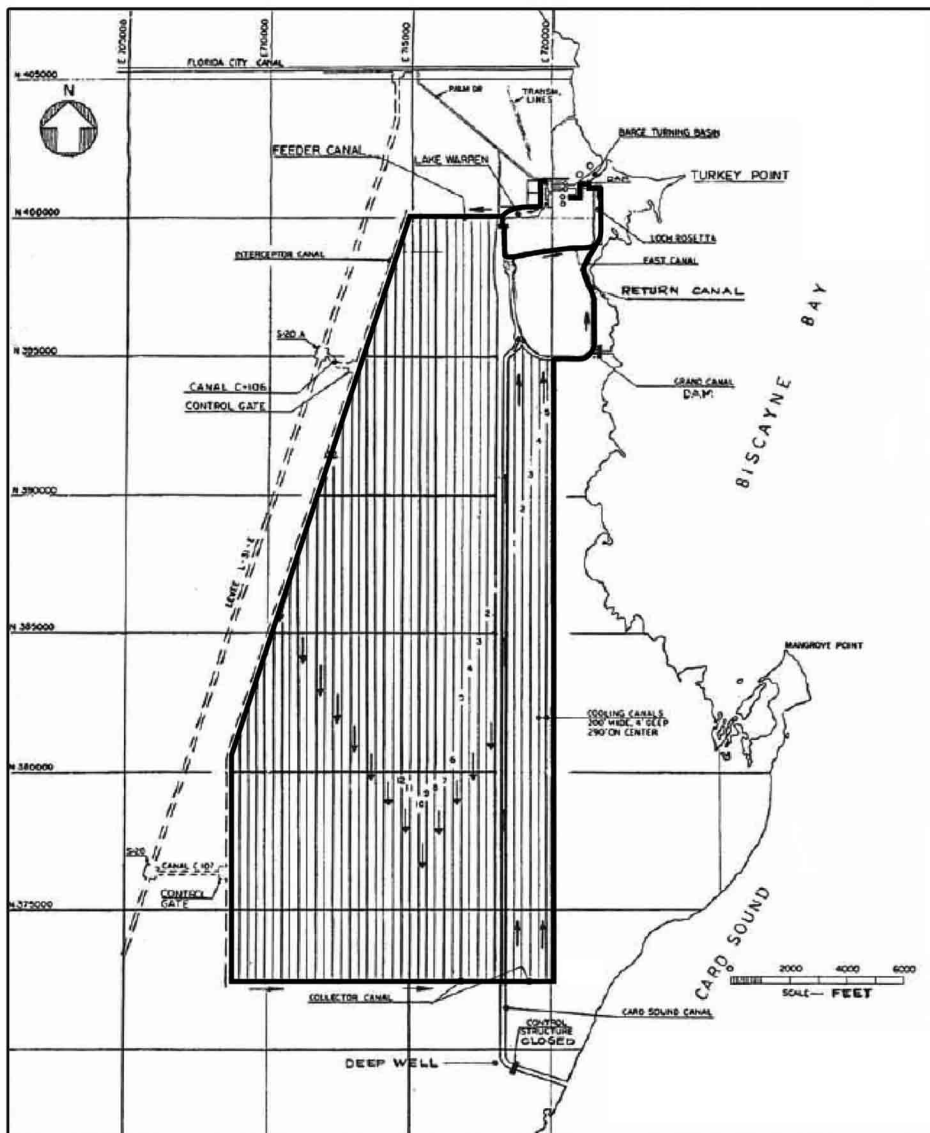
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

Figure 2.3-13 Biscayne Bay Bathymetry



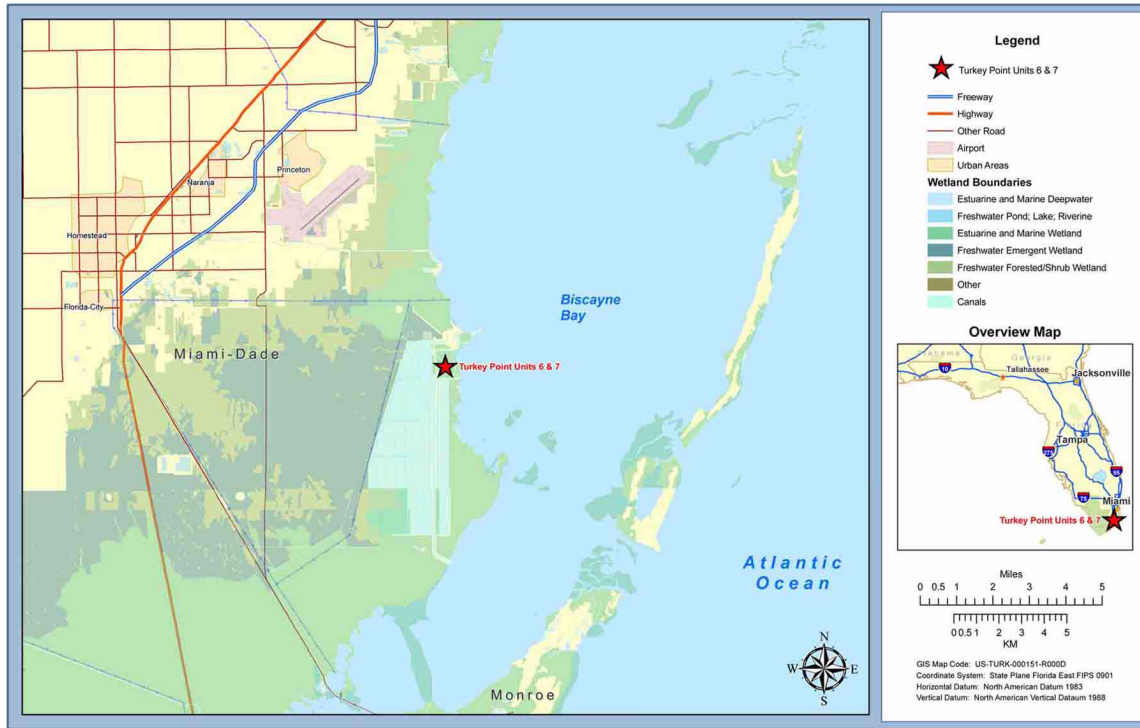
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

Figure 2.3-14 Designed Layout of the Industrial Wastewater Facility



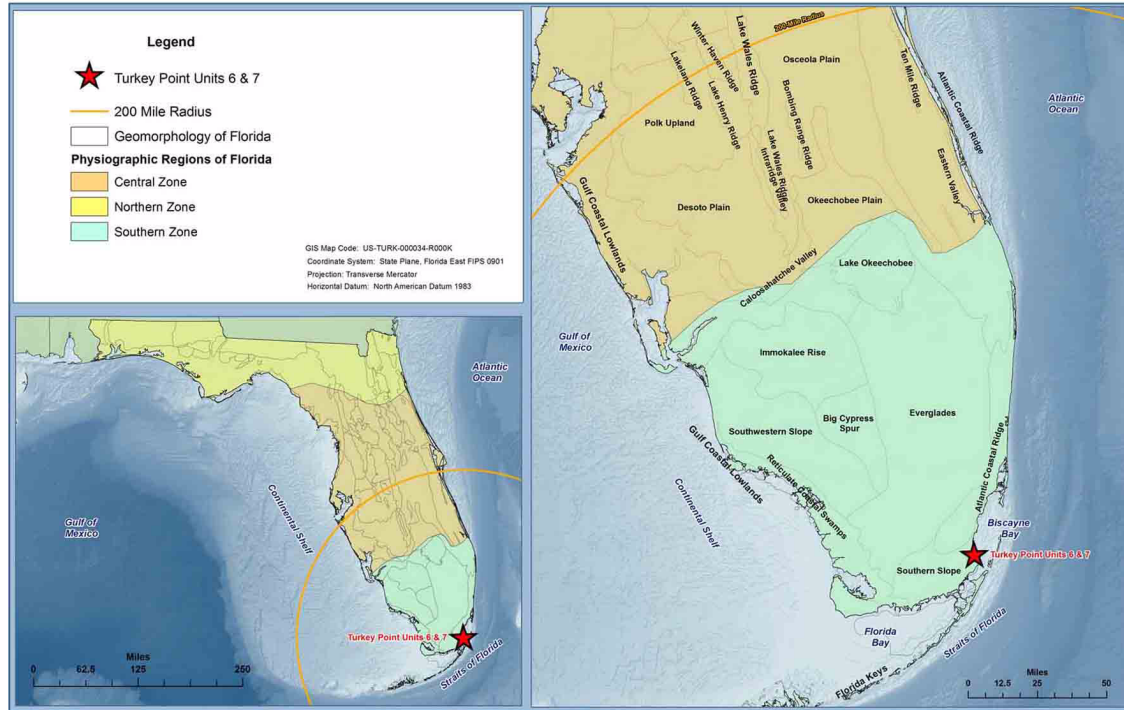
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

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



Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

Figure 2.3-16 Physiographic Features

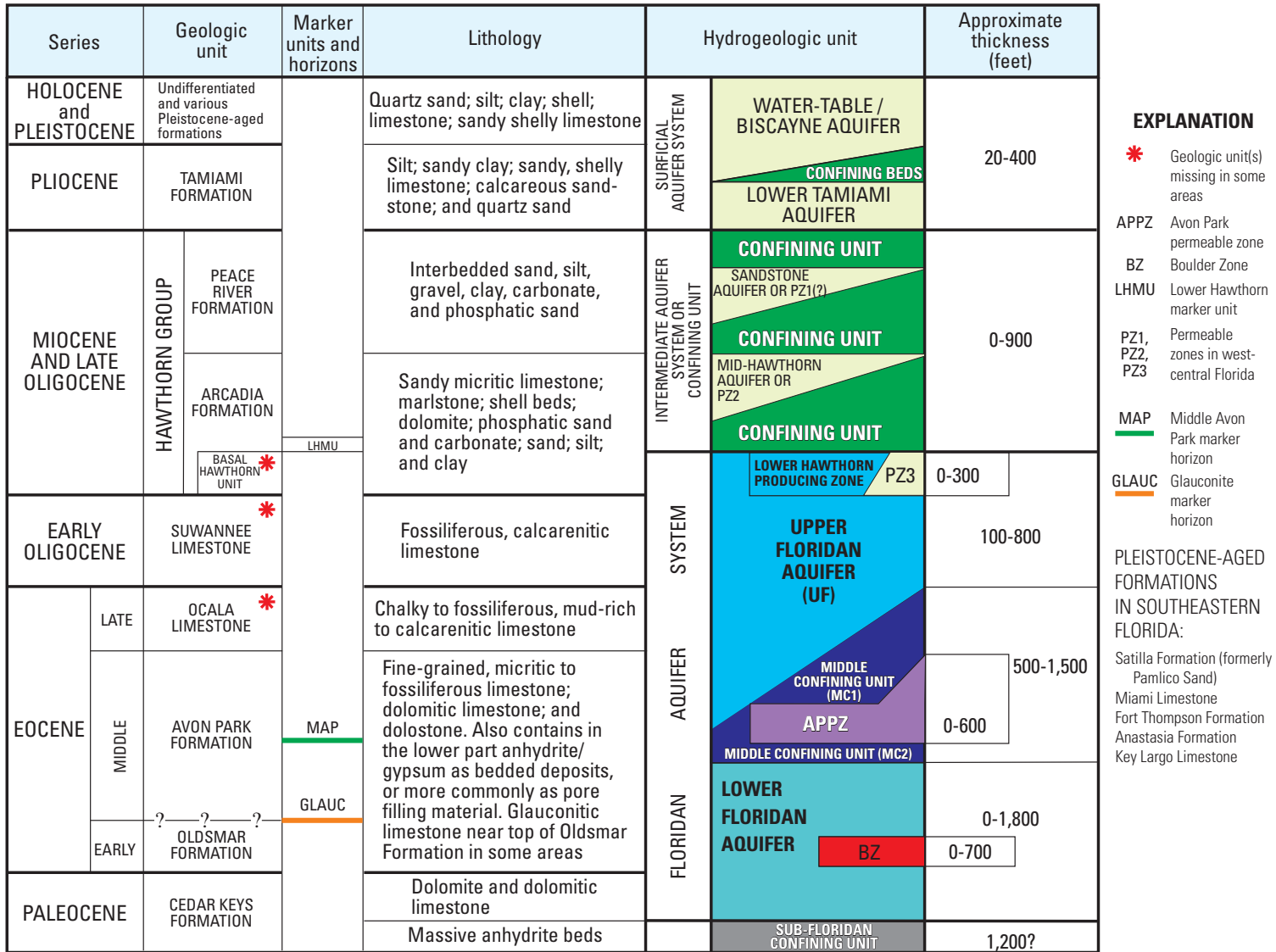


Modified from Randazzo and Jones 1997 and White 1970



Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

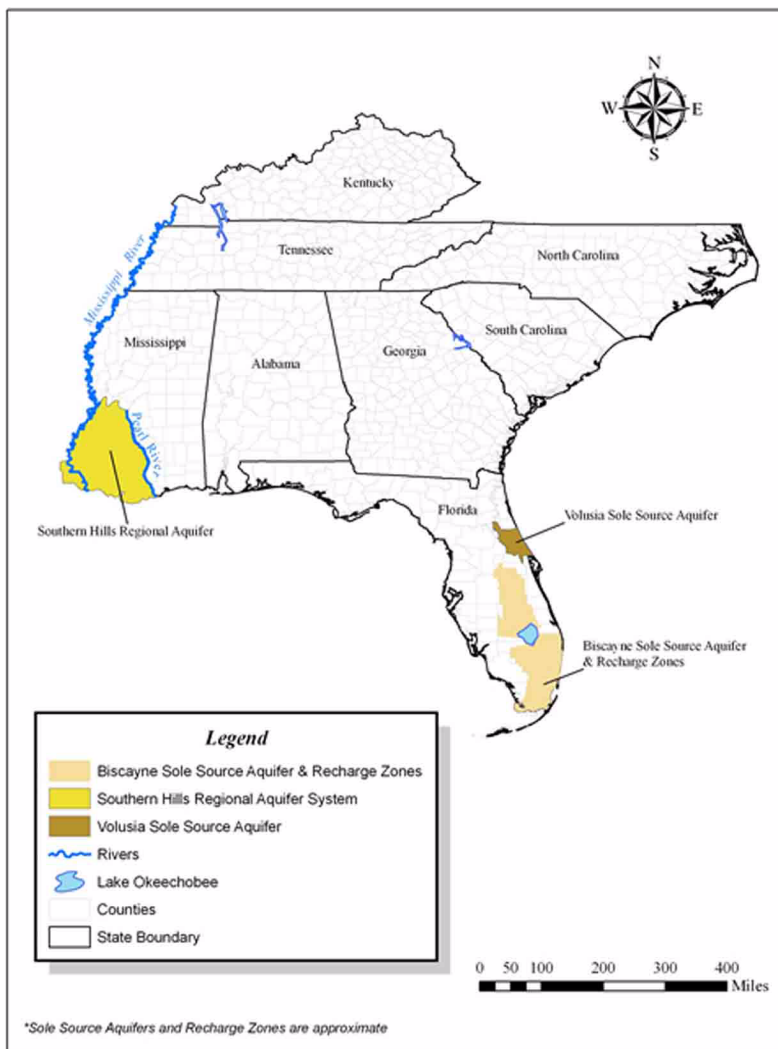
**Figure 2.3-17 Regional Generalized Hydrostratigraphic Column**



Source: Reese and Richardson 2008

Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

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



Source: U.S. EPA 2011

Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

**Figure 2.3-19 Site Hydrostratigraphic Column**

ERATHEM	SYSTEM	SERIES	HYDROGEOLOGIC UNIT		STRATIGRAPHIC UNIT	LITHOLOGY	APPROXIMATE TOP ELEVATION (feet NAVD 88)	APPROXIMATE THICKNESS (feet)
			Surficial aquifer system	Biscayne aquifer	organic muck	organic soil and silt	0	3
CENOZOIC	QUATERNARY	HOLOCENE			Surficial aquifer system	Biscayne aquifer	Miami Limestone	sandy, oolitic limestone
		PLEISTOCENE	Key Largo Limestone	well indurated, vuggy, coralline limestone			-28	22
			Fort Thompson Formation	poor/well indurated fossiliferous limestone			-50	65
			Pliocene	Semi-confining unit			Tamiami Formation	sand and silt with calcarenite limestone
	TERTIARY	MIOCENE	Intermediate confining unit	Hawthorn Group	Peace River Formation	silty calcareous sand and silt	-220	235
					Arcadia Formation	calcareous wackestone with indurated limestones, sandstone, and sand	-455	>160

drilling ended at -616.5 feet NAVD 88

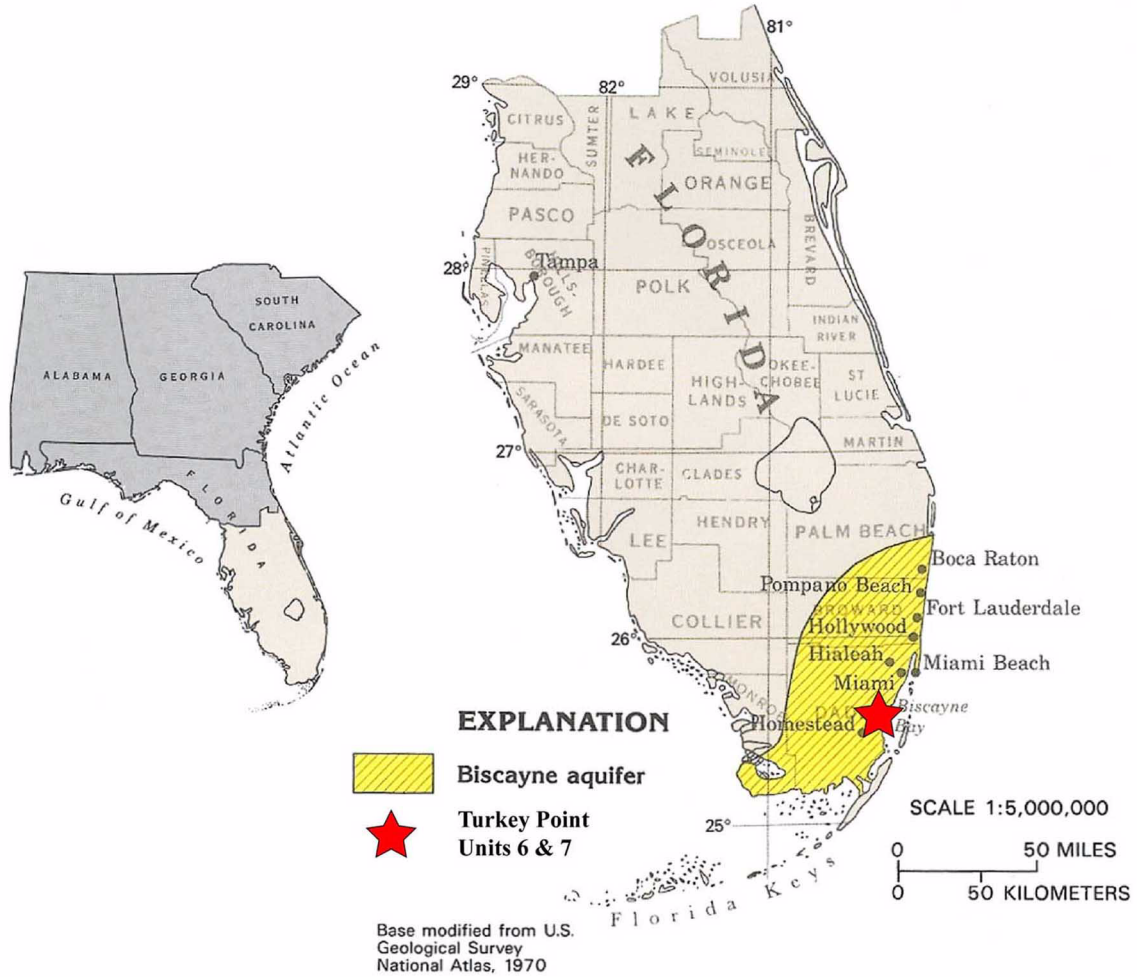
Color represents similar composition (carbonates, clastics, and organics).

Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

**Figure 2.3-20 Not Used**

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

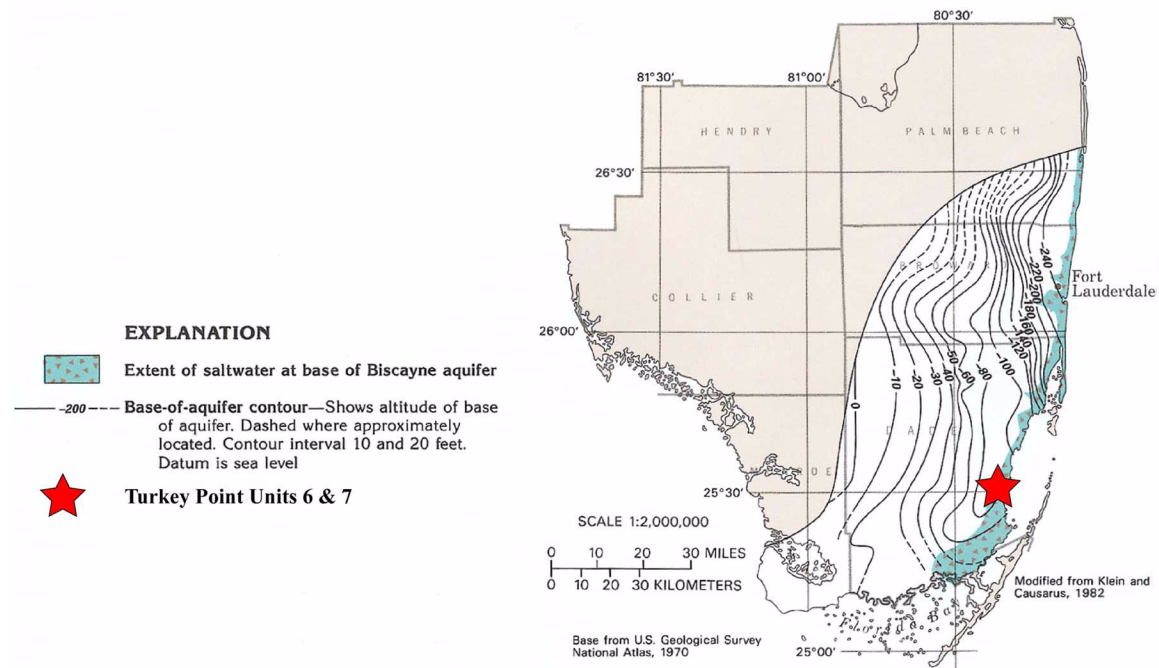
**Figure 2.3-21 Location of the Biscayne Aquifer in Southeast Florida**



Modified from Miller 1990

Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

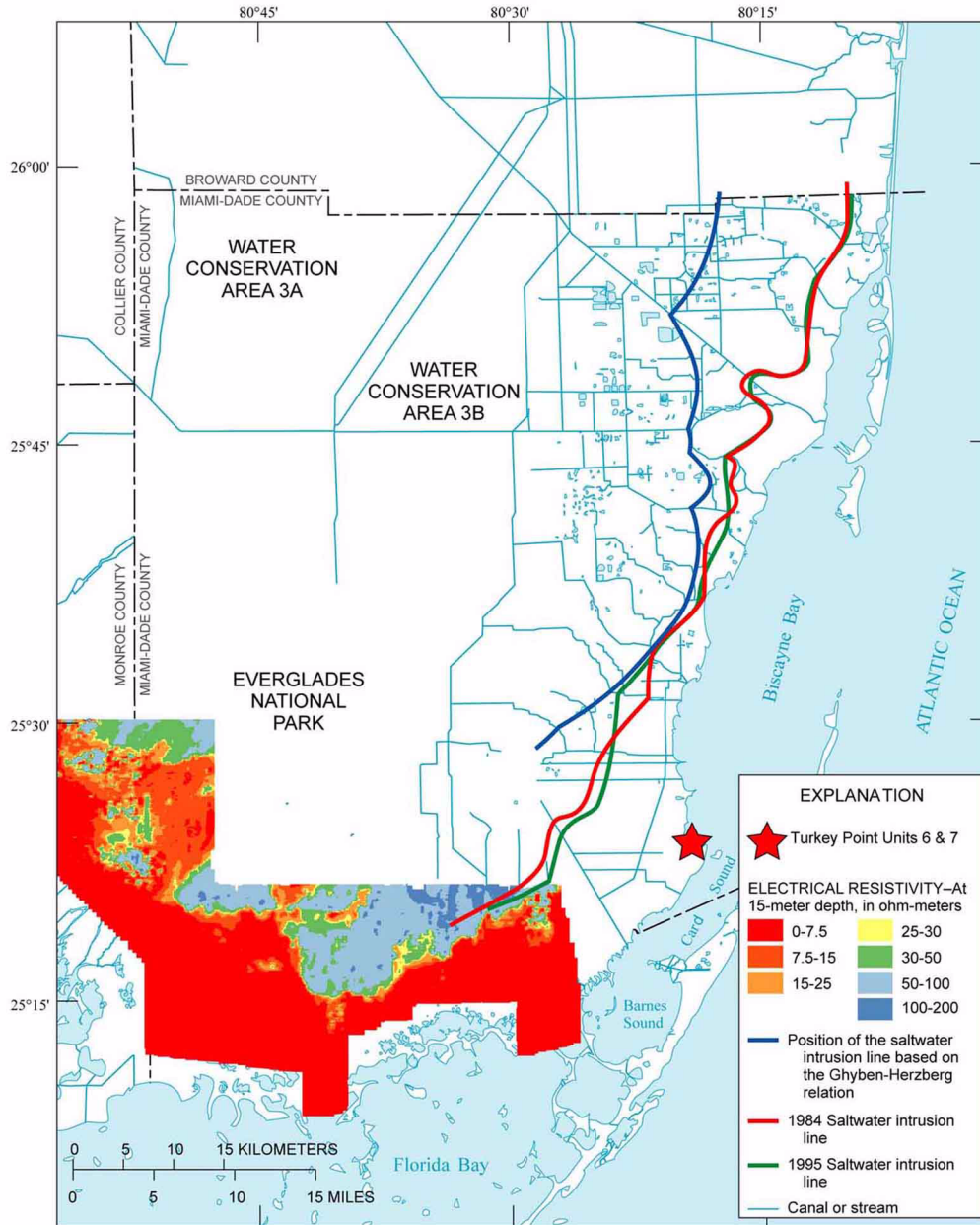
Figure 2.3-22 Base of the Biscayne Aquifer



Modified from Miller 1990

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

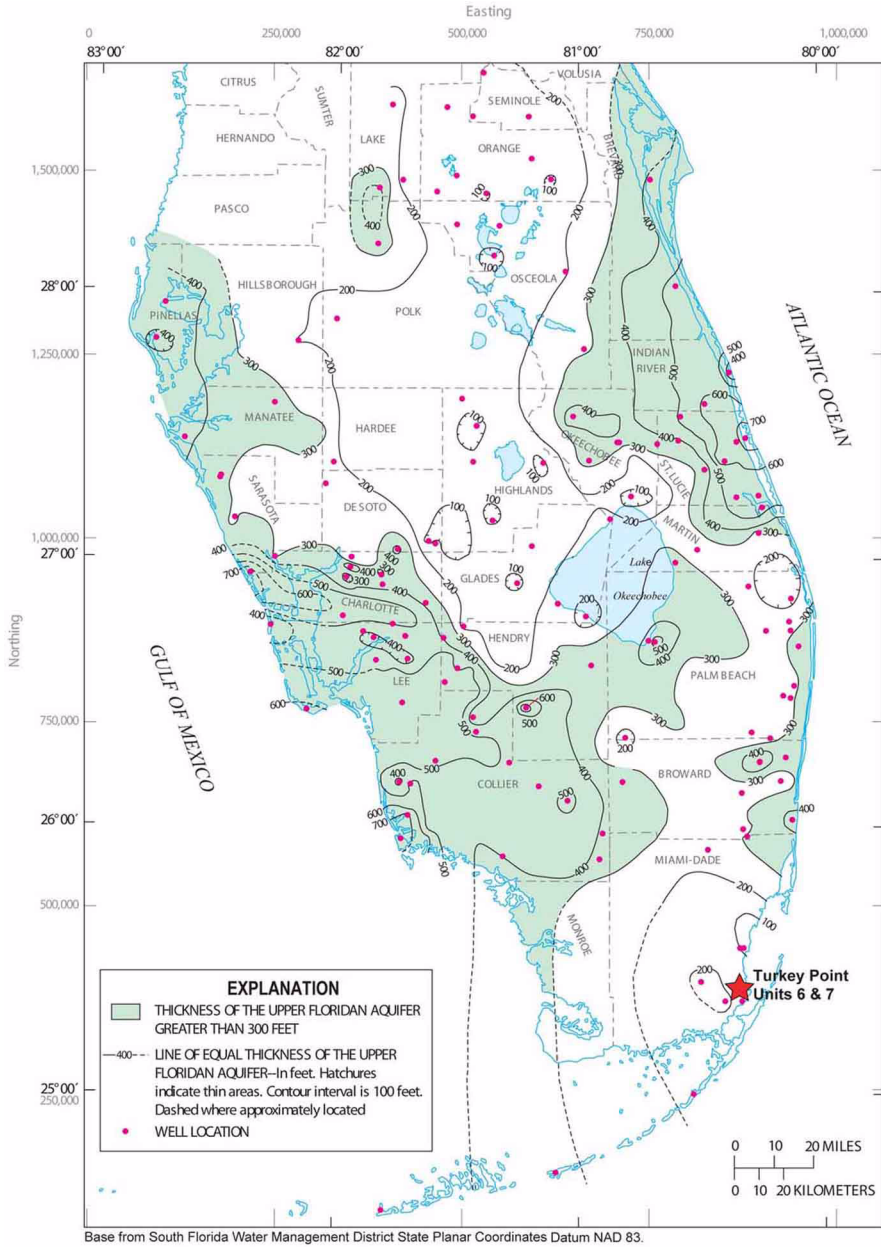
Figure 2.3-23 Location of the Freshwater-Saltwater Interface



Modified from Langevin 2001

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

**Figure 2.3-24 Thickness of the Upper Floridan Aquifer**



Modified from Reese and Richardson 2008



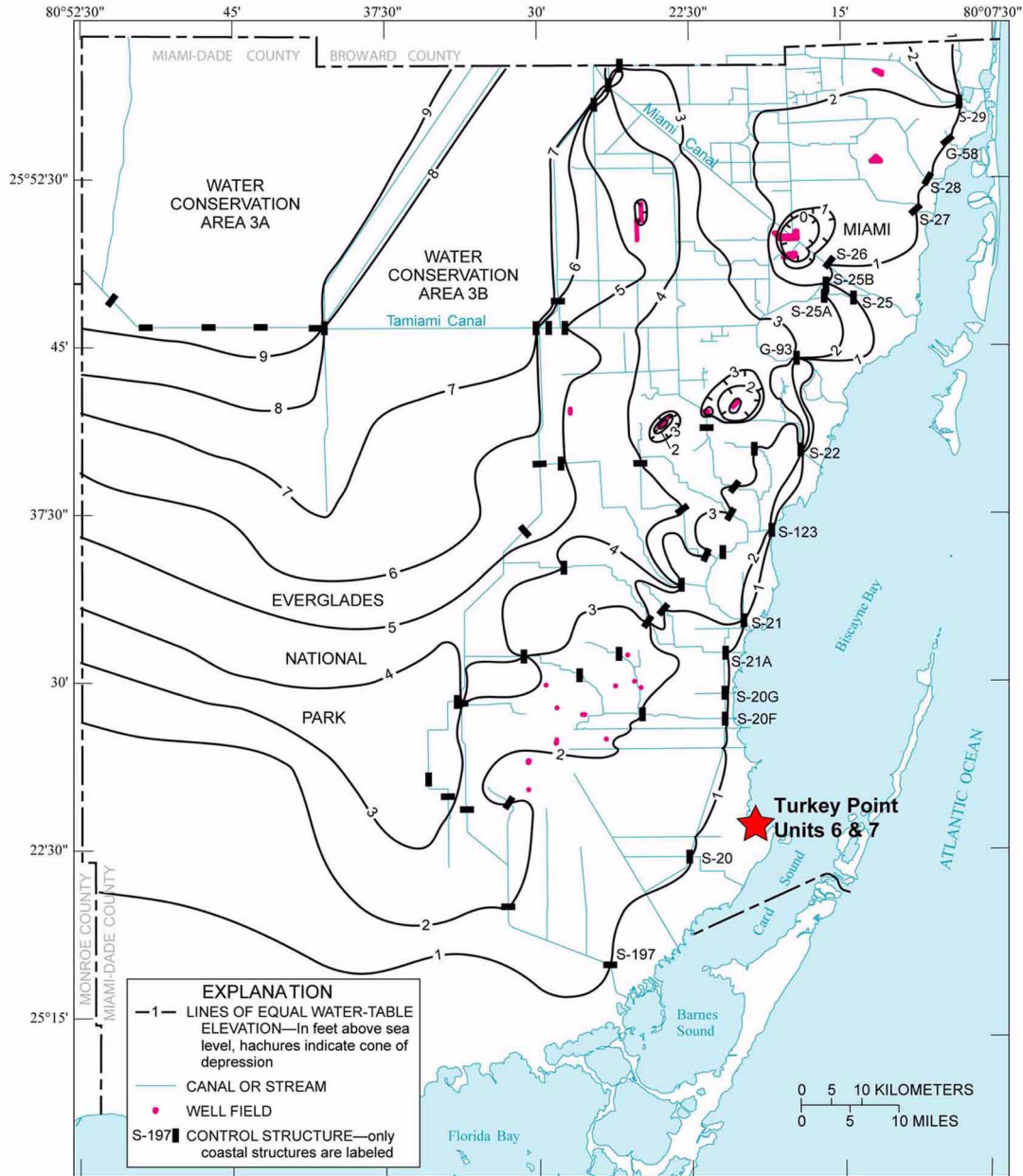
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

Figure 2.3-25 Units 6 & 7 Observation Well Locations



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

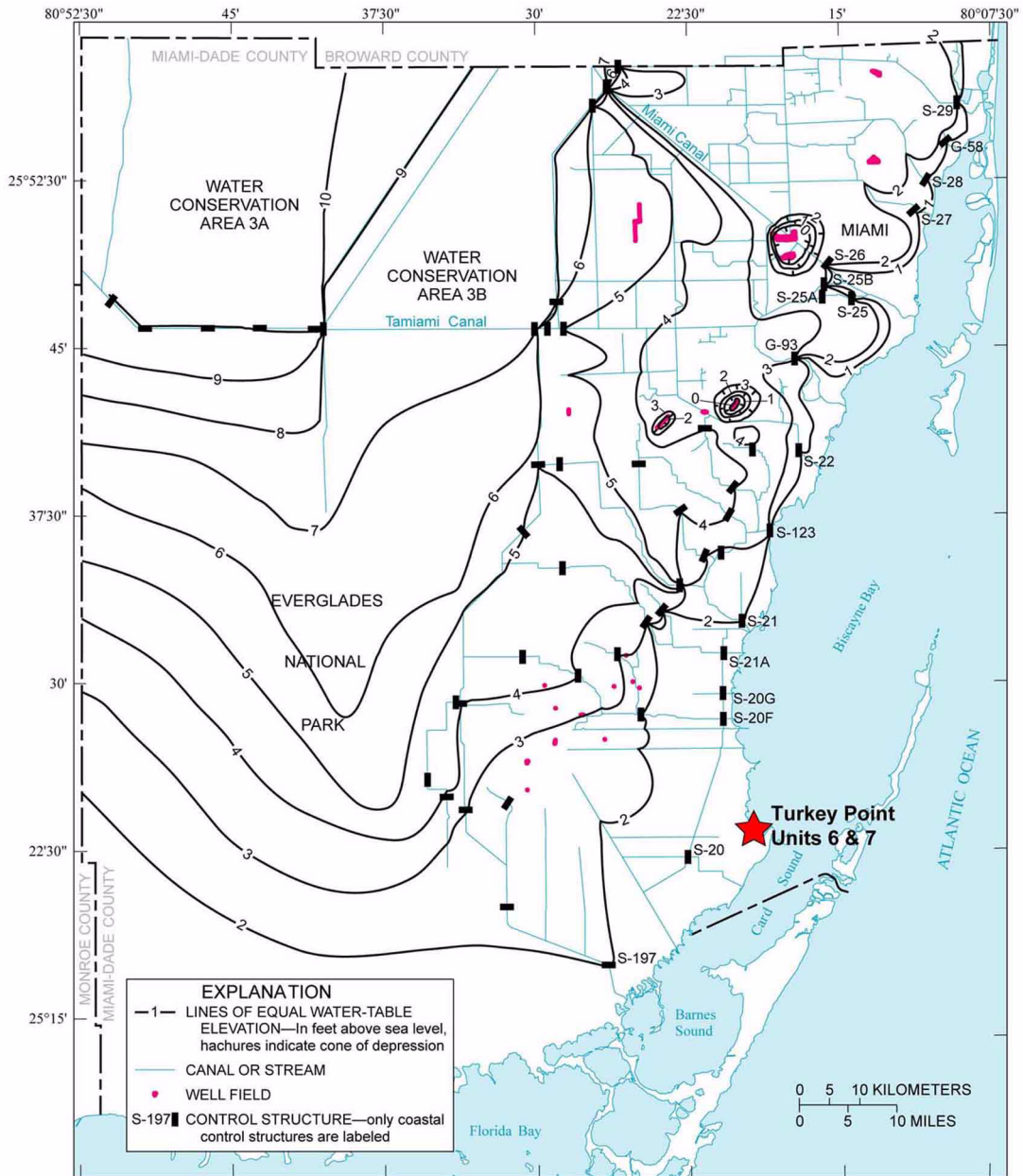
Figure 2.3-26 May 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

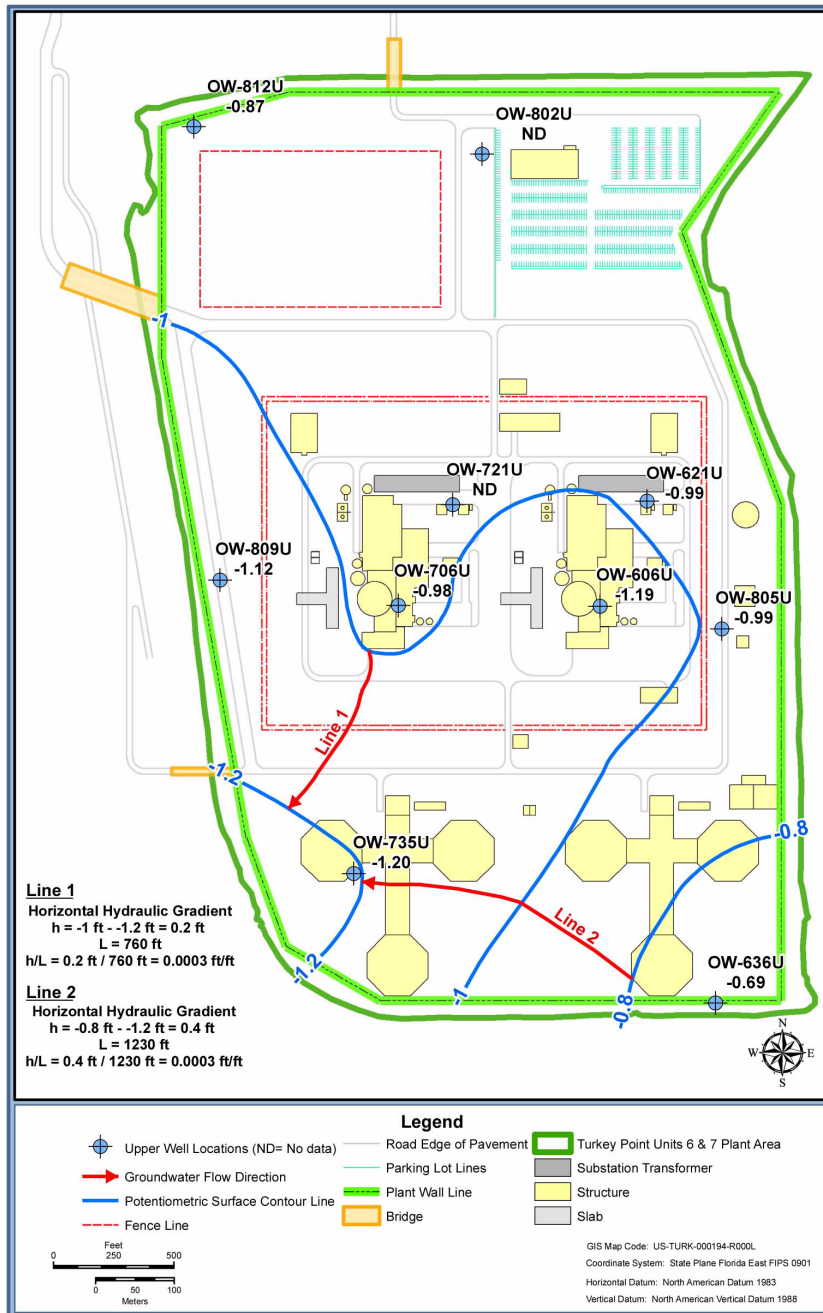
Figure 2.3-27 November 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

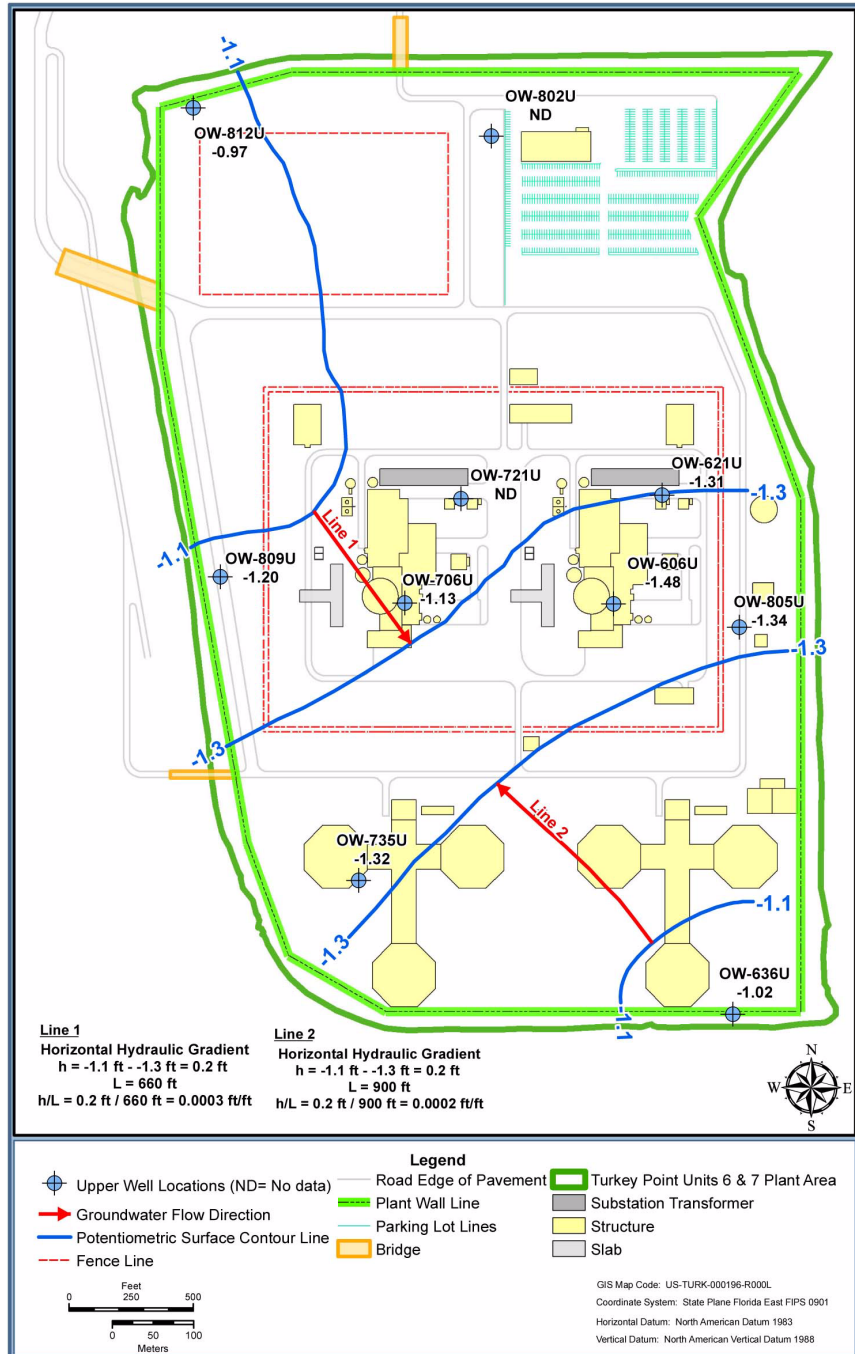
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



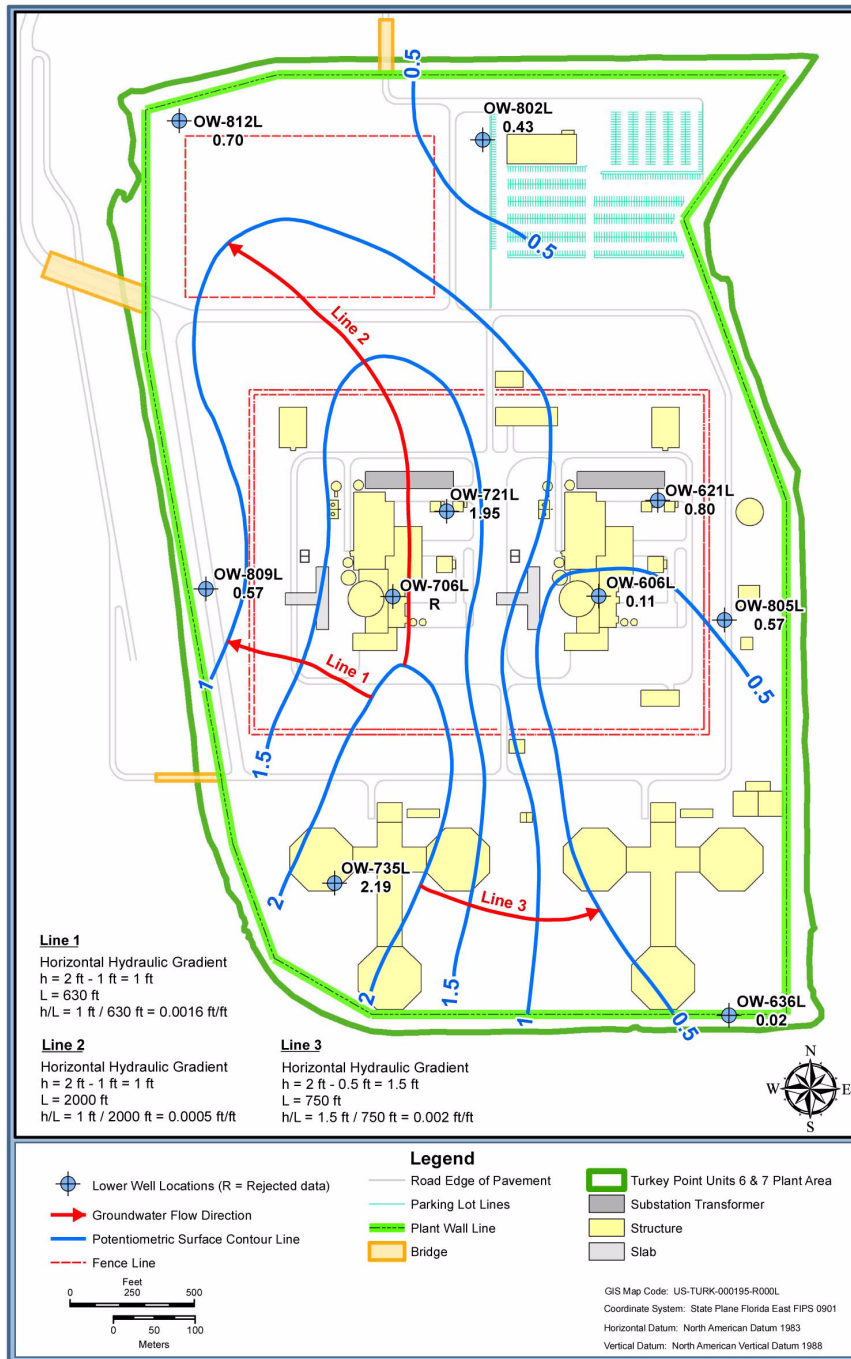
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



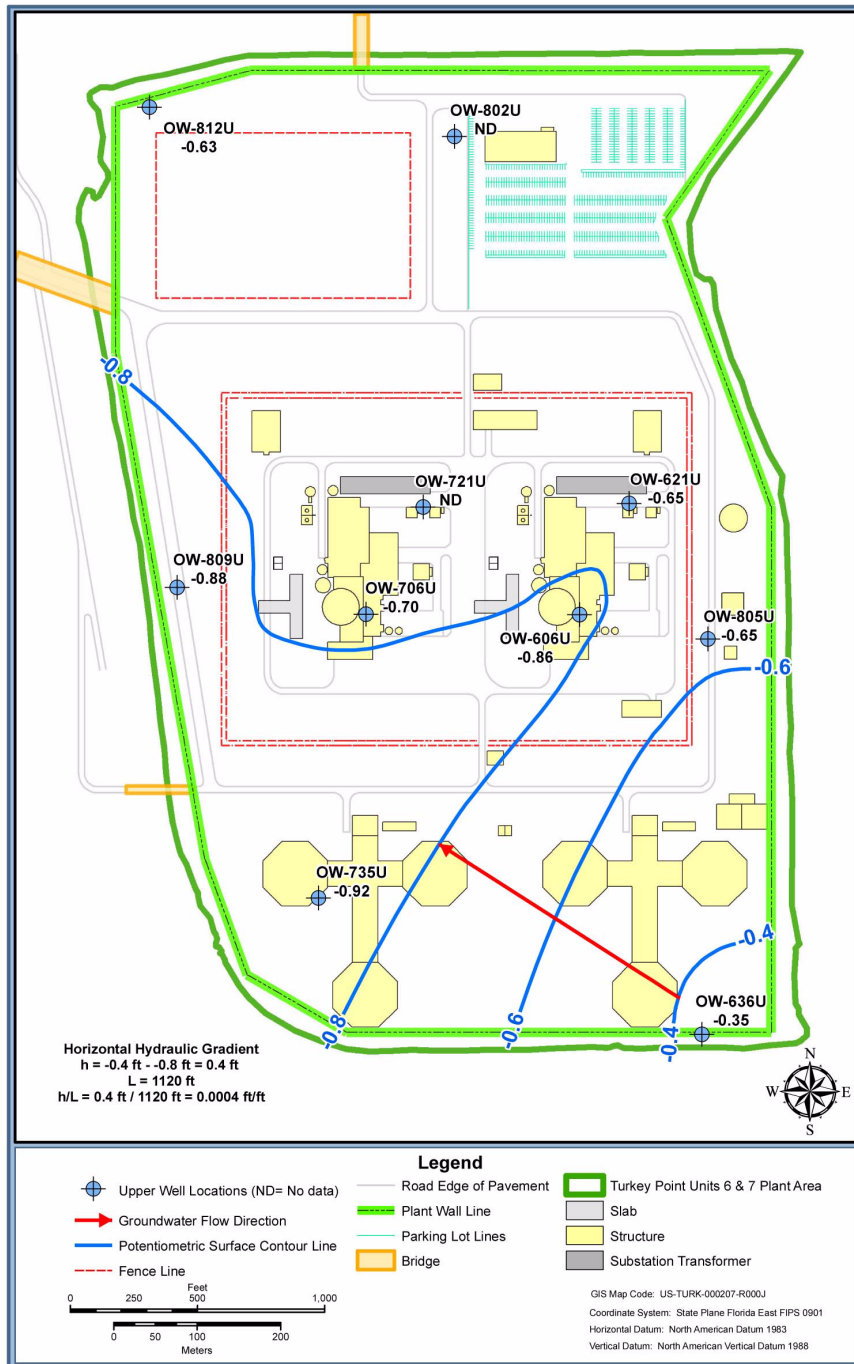
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

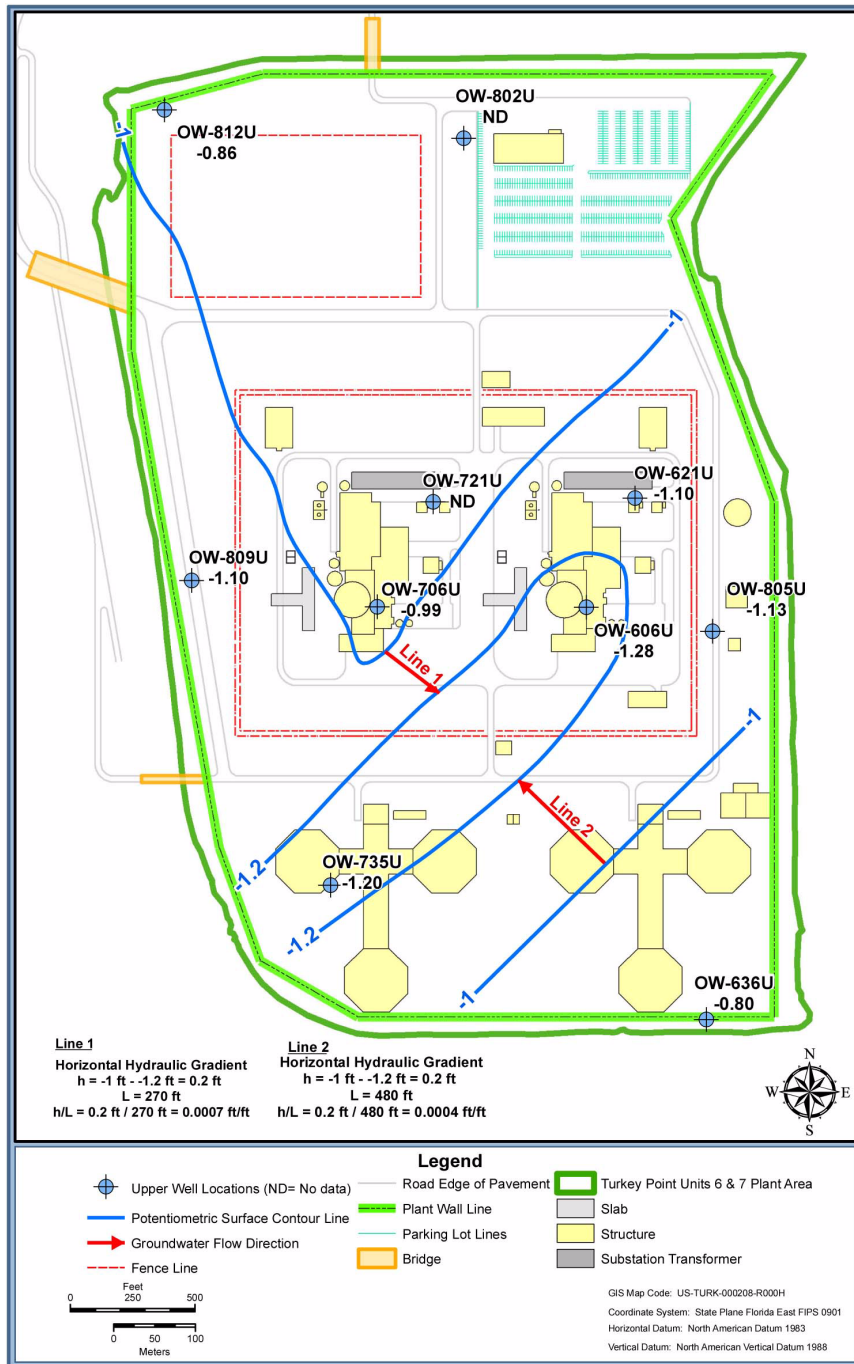
Figure 2.3-30 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, August 15, 2008 (Sheet 1 of 2) High Tide





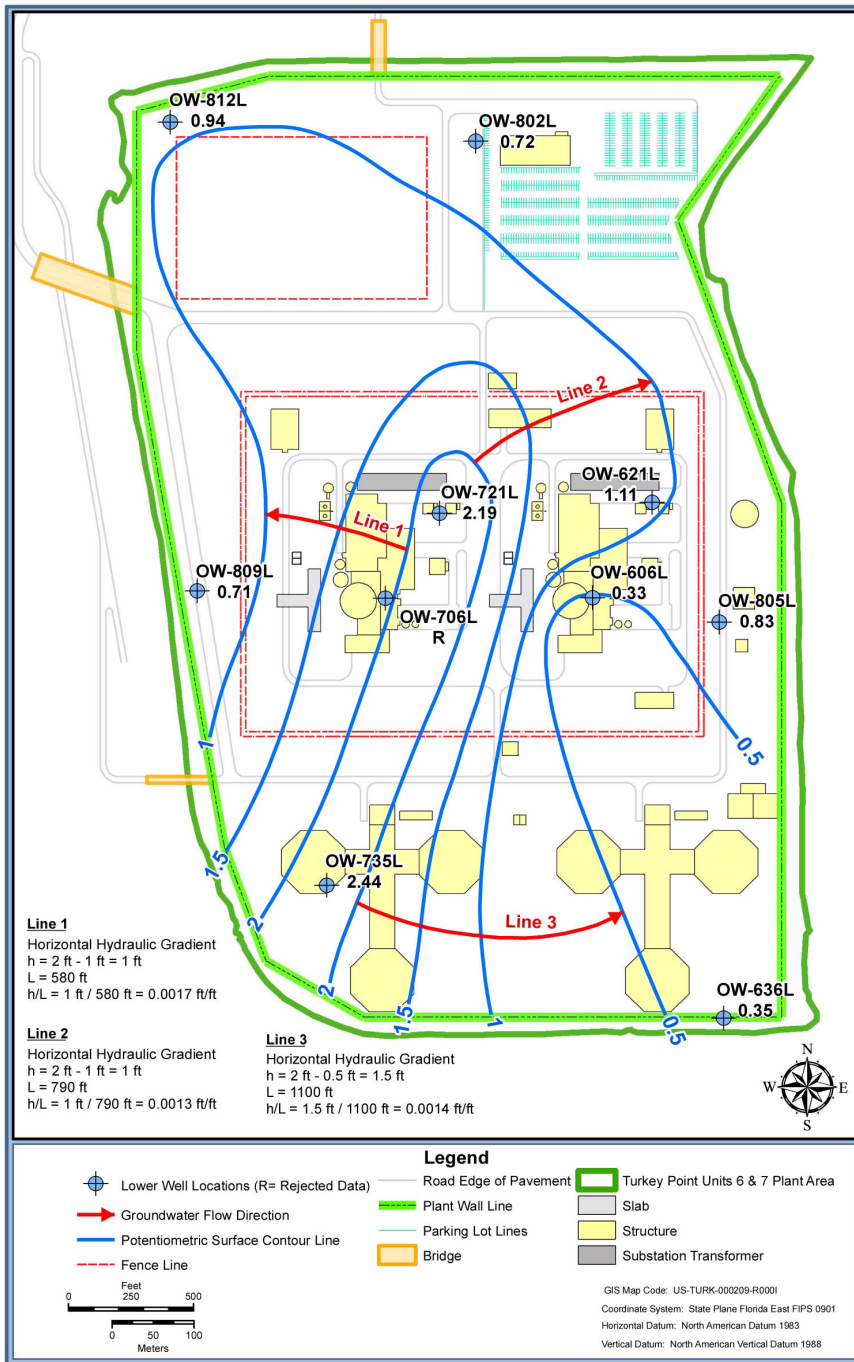
Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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



Turkey Point Units 6 & 7  
 COL Application  
 Part 3 — Environmental Report

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

