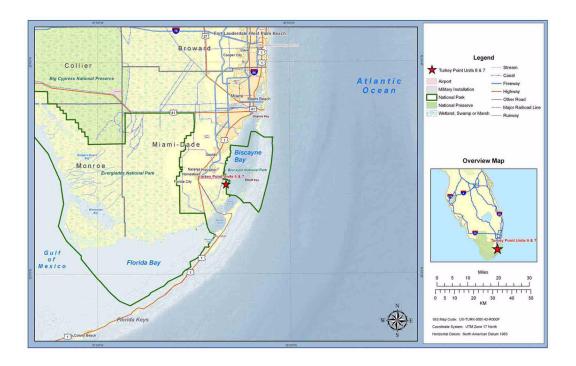
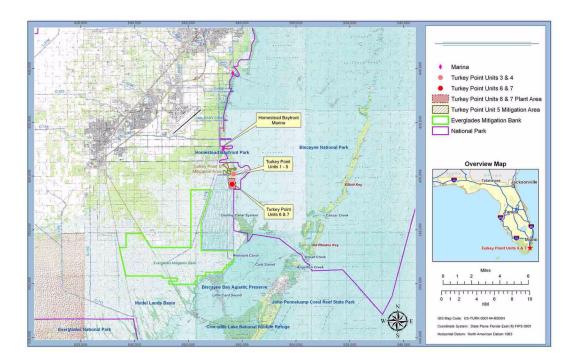
Figure 2.3-1 Major Hydrological Features Near Units 6 & 7



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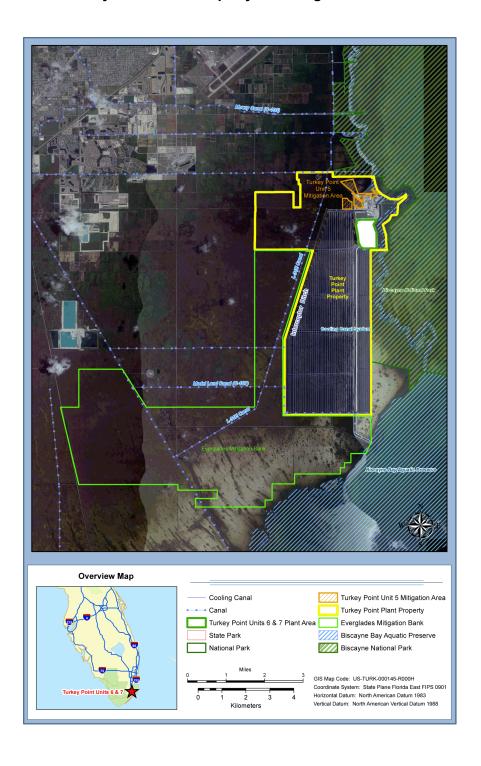
#### Turkey Point Units 6 & 7 COL Application Part 3 — Environmental Report

Figure 2.3-2 Areas Surrounding the Turkey Point Plant Property



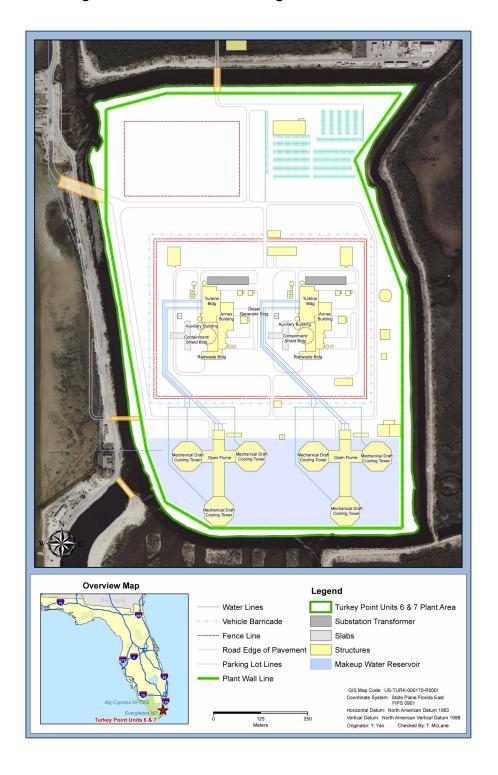
2.3-187 Revision 6

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



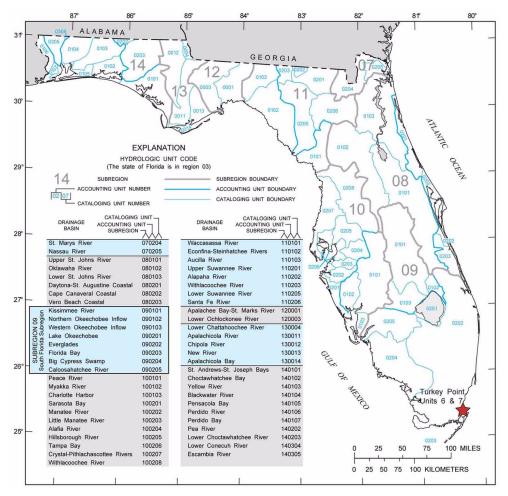
2.3-188 Revision 6

Figure 2.3-4 General Arrangement of Units 6 & 7



2.3-189 Revision 6

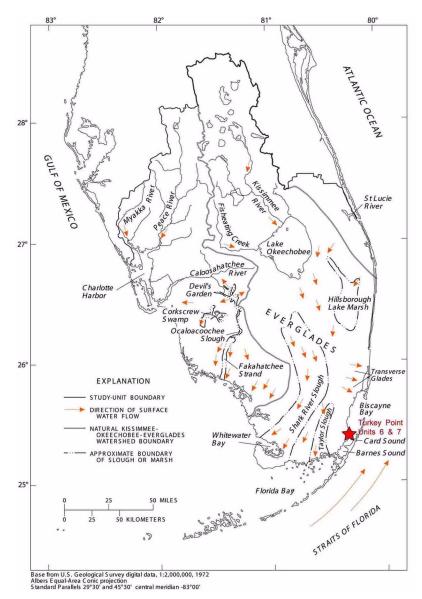
Figure 2.3-5 Map of South Florida Watershed Subregions



Modified from Marella 1999

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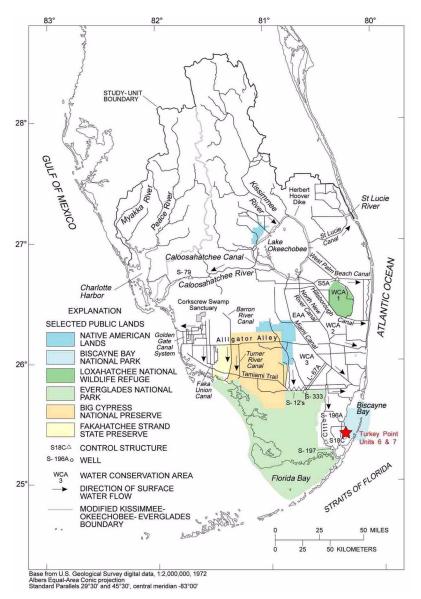
Figure 2.3-6 Hydrologic Features and Predevelopment Flow Patterns within the South Florida Watershed



Modified from McPherson and Halley 1997

2.3-191 Revision 6

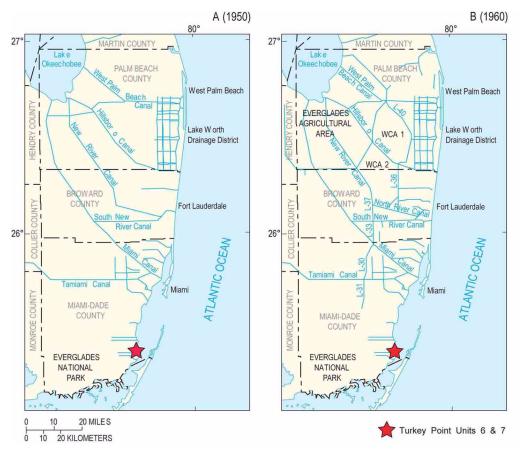
Figure 2.3-7 Selected Public Lands and Post-Development Flow Alteration within the South Florida Watershed



Modified from McPherson and Halley 1997

2.3-192 Revision 6

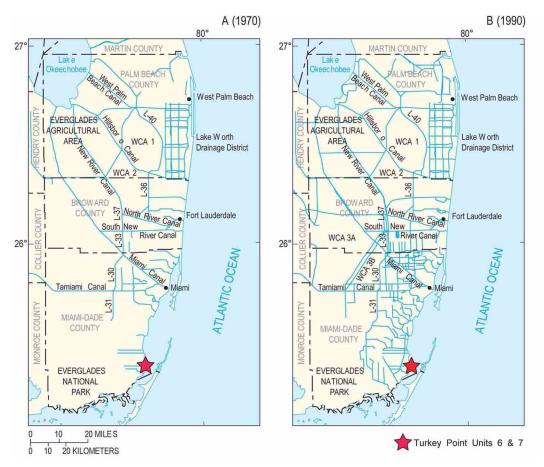
Figure 2.3-8 Surface Water Conveyance System in the South Florida Region in (A) 1950 and (B) 1960



Modified from Renken et al. 2005

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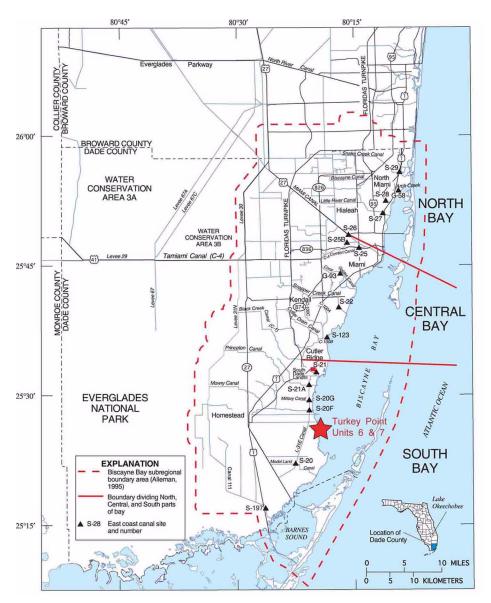
Figure 2.3-9 Surface Water Conveyance System in the South Florida Region in (A) 1970 and (B) 1990



Modified from Renken et al. 2005

2.3-194 Revision 6

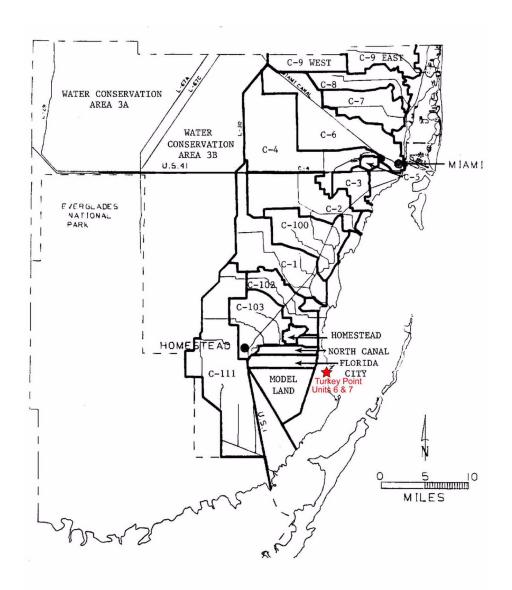
Figure 2.3-10 Locations of ENP-SDCS and C&SF Project Canals, Coastal Control Structures, and Planning Zones of the Biscayne Bay



Modified from Lietz 1999

2.3-195 Revision 6

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

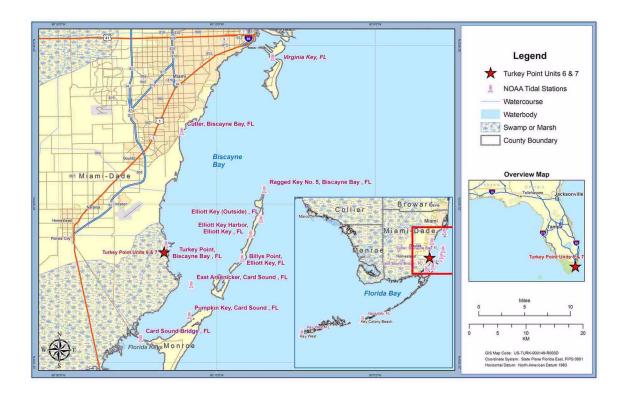


Location of Turkey Point Units 6 & 7 is approximate.

Modified from Cooper and Lane 1987

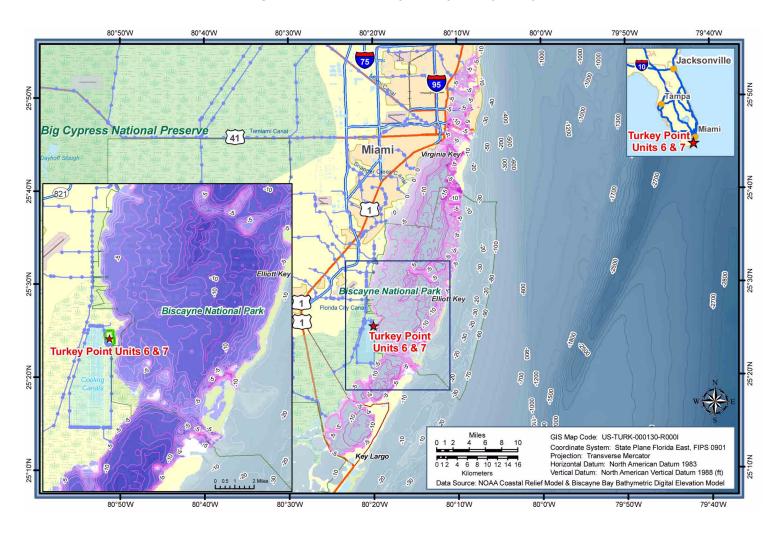
2.3-196 Revision 6

Figure 2.3-12 Locations of NOAA Tide Gages



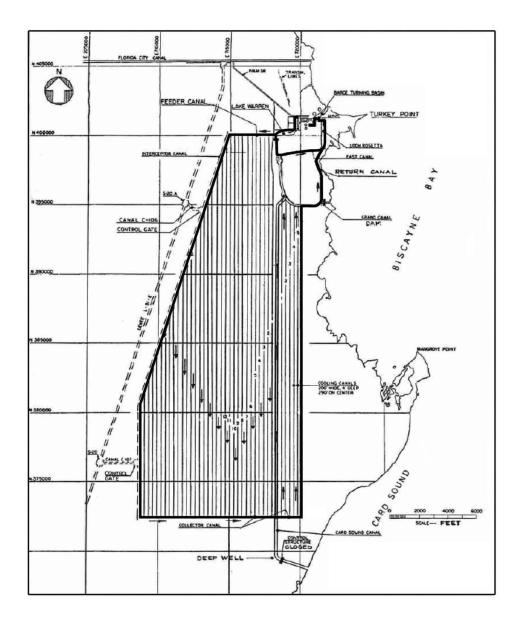
2.3-197 Revision 6

Figure 2.3-13 Biscayne Bay Bathymetry



2.3-198 Revision 6

Figure 2.3-14 Designed Layout of the Industrial Wastewater Facility



2.3-199 Revision 6

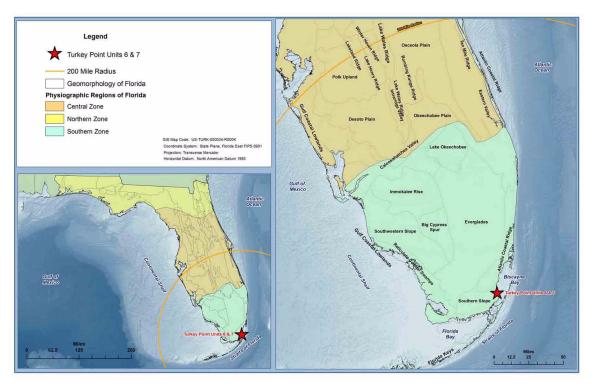
Figure 2.3-15 Locations of Wetlands Designated by U.S. Fish and Wildlife Services Near the Turkey Point Plant Property



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### 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

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

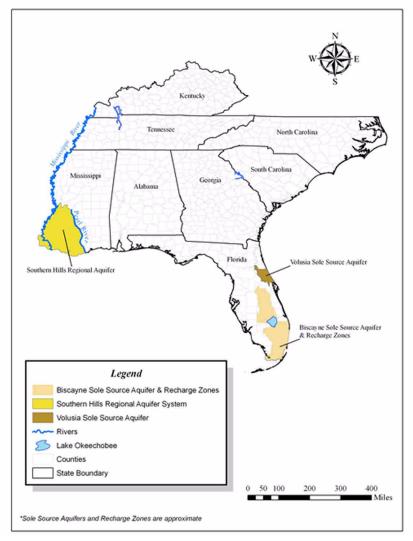
Figure 2.3-17 Regional Generalized Hydrostratigraphic Column

Series		Geologic unit		Marker units and horizons	Lithology	Hydrogeologic unit		thic	oximate kness eet)		
HOLOCENE and PLEISTOCENE		Undifferentiated and various Pleistocene-aged formations			Quartz sand; silt; clay; shell; limestone; sandy shelly limestone	SYSTEM	WATER-TABLE / BISCAYNE AQUIFER	20-400		EXPLANATION	
PLIOCENE		TAMIAMI FORMATION			Silt; sandy clay; sandy, shelly limestone; calcareous sand- stone; and quartz sand	SURFICIAL AQUIFER SYSTEM	CONFINING BEDS LOWER TAMIAMI AQUIFER			# Geologic unit(s) missing in some areas  APPZ Avon Park	
MIOCE		V GROUP	PEACE RIVER FORMATION		Interbedded sand, silt, gravel, clay, carbonate, and phosphatic sand	INTERMEDIATE AQUIFER SYSTEM OR CONFINING UNIT	CONFINING UNIT SANDSTONE AQUIFER OR PZ1(2)  CONFINING UNIT	0-900		permeable zone BZ Boulder Zone LHMU Lower Hawthorn marker unit PZ1, Permeable PZ2, zones in west- central Florida  MAP Middle Avon Park marker	
AND LA OLIGOC		HAWTHORN	ARCADIA FORMATION	LHMU	Sandy micritic limestone; marlstone; shell beds; dolomite; phosphatic sand and carbonate; sand; silt;	INTERMEI SYS CONFI	MID-HAWTHORN AQUIFER OR PZ2  CONFINING UNIT				
			BASAL HAWTHORN UNIT		and clay		LOWER HAWTHORN PZ3	0-300		horizon GLAUC Glauconite	
EARLY OLIGOCENE		SUWANNEE LIMESTONE			Fossiliferous, calcarenitic limestone	SYSTEM	UPPER FLORIDAN AQUIFER	100-800		marker horizon PLEISTOCENE-AGED FORMATIONS	
EOCENE	LATE	LI	OCALA * MESTONE		Chalky to fossiliferous, mud-rich to calcarenitic limestone	FLORIDAN AQUIFER	(UF)			IN SOUTHEASTERN FLORIDA:	
	MIDDLE		VON PARK DRMATION	MAP	Fine-grained, micritic to fossiliferous limestone; dolomitic limestone; and dolostone. Also contains in the lower part anhydrite/		MIDDLE CONFINING UNIT (MC1)  APPZ	0-600	500-1,500	Satilla Formation (former Pamlico Sand) Miami Limestone Fort Thompson Formation Anastasia Formation	
			??	GLAUC	gypsum as bedded deposits, or more commonly as pore filling material. Glauconitic limestone near top of Oldsmar Formation in some areas		LOWER FLORIDAN	0-1,800		Key Largo Limestone	
	EARLY		OLDSMAR ORMATION				AQUIFER BZ	0-700			
PALEOCENE		CEDAR KEYS FORMATION			Dolomite and dolomitic limestone		SUB-FLORIDAN				
					Massive anhydrite beds		CONFINING UNIT	1,2	200?		

Source: Reese and Richardson 2008

2.3-202 Revision 6

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



Source: U.S. EPA 2011

2.3-203 Revision 6

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

Figure 2.3-19 Site Hydrostratigraphic Column

ERATHEM	SYSTEM	SERIES	нү	DROGEOLOGIC UNIT	STRATIGRAHIC UNIT		LITHOLOGY	APPROXIMATE TOP ELEVATION (feet NAVD 88)	APPROXIMATE THICKNESS (feet)
	١٢	PLEISTOCENE AND A	Surficial aquifer system	Biscayne aquifer		organic muck	organic soil and silt	0	3
CENOZOIC	IAR				Miami Limestone		sandy, oolitic limestone	-3	25
	QUATERNARY				Key Largo Limestone		well indurated, vuggy, coralline limestone	-28	22
	QUA				Fort Thompson Formation		poor/well indurated fossiliferous limestone	-50	65
		PLIOCENE Surficial ad		Semi-confining unit	Tamiami Formation		sand and silt with calcarenite limestone	-115	105
	TERTIARY	MIOCENE		Intermediate confining unit		Peace River Formation	silty calcareous sand and silt		ontact based on nma signature 235
		MIC		Intermediat	Hawthorn Group	Arcadia Formation	calcareous wackestone with indurated limestones, sandstone, and sand	-455 drilling ended at	>160 -616.5 feet NAVD 88

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

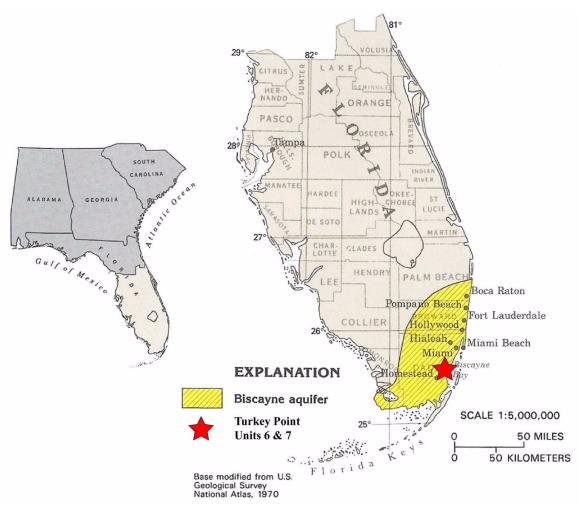
2.3-204 Revision 6

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

Figure 2.3-20 Not Used

2.3-205 Revision 6

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

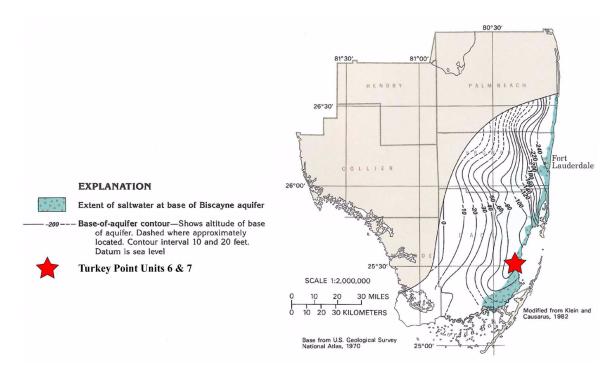


Modified from Miller 1990

2.3-206 Revision 6

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

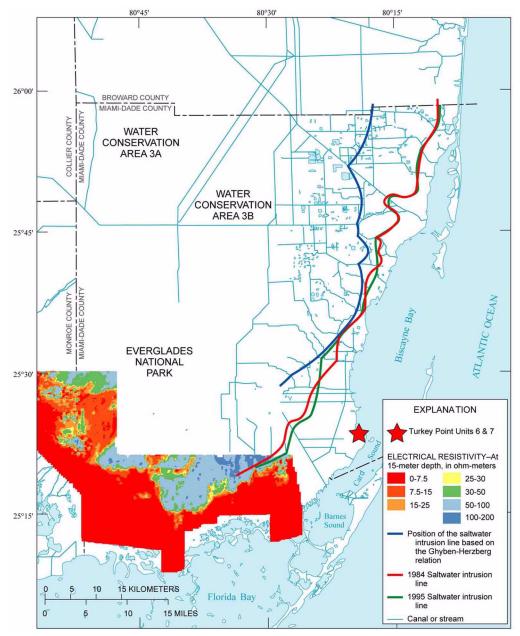
Figure 2.3-22 Base of the Biscayne Aquifer



Modified from Miller 1990

2.3-207 Revision 6

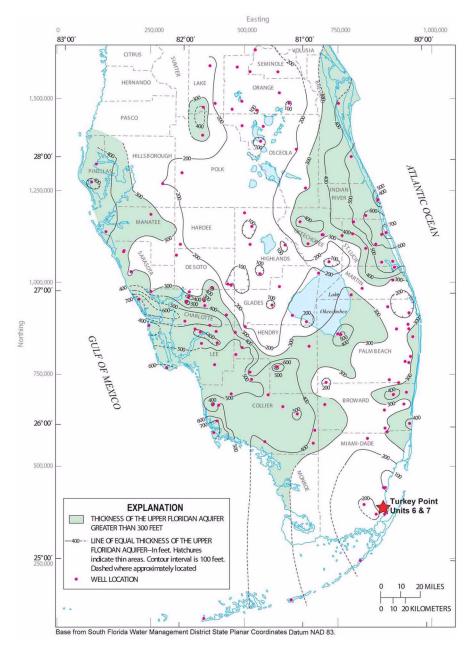
Figure 2.3-23 Location of the Freshwater-Saltwater Interface



Modified from Langevin 2001

2.3-208 Revision 6

Figure 2.3-24 Thickness of the Upper Floridan Aquifer



Modified from Reese and Richardson 2008

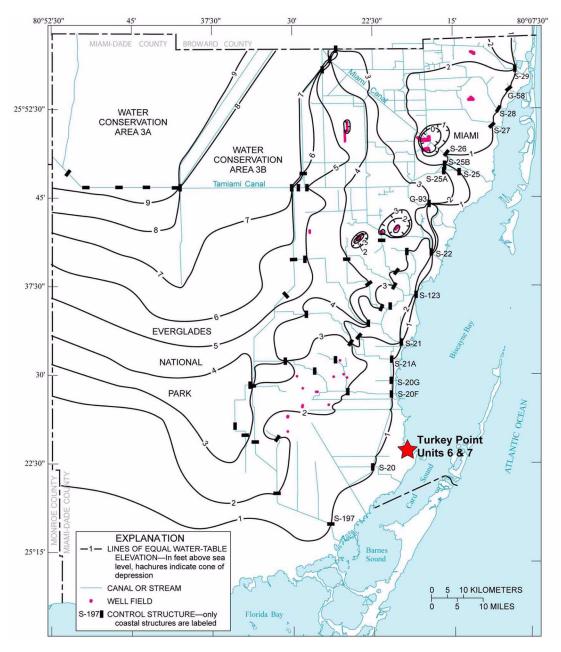
2.3-209 Revision 6

Figure 2.3-25 Units 6 & 7 Observation Well Locations



2.3-210 Revision 6

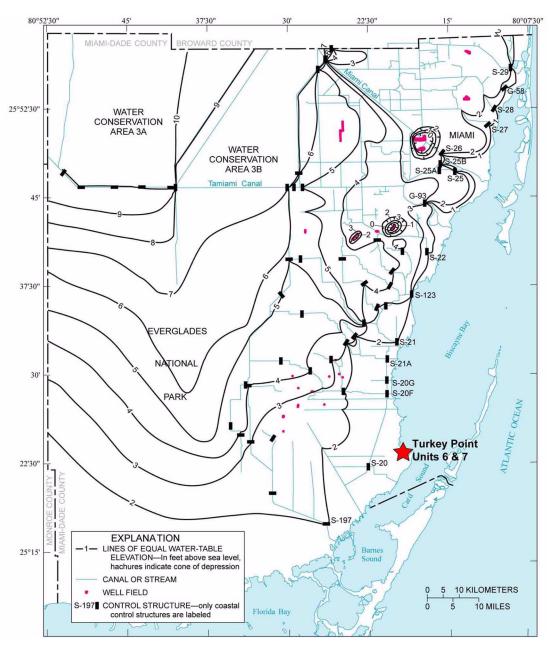
Figure 2.3-26 May 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

2.3-211 Revision 6

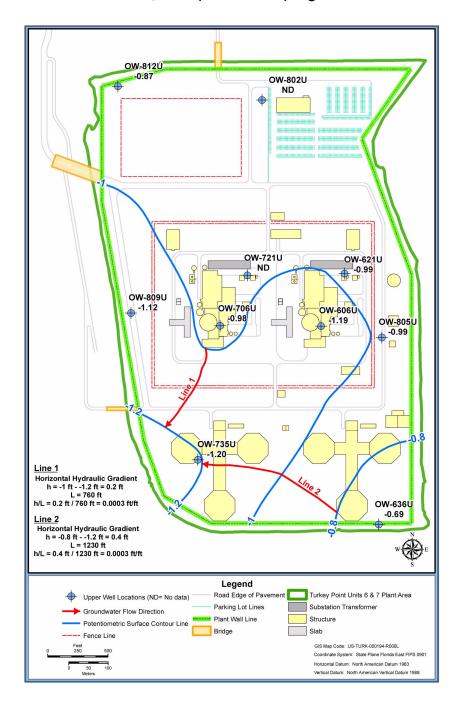
Figure 2.3-27 November 1993 Biscayne Aquifer Potentiometric Surface Map



Modified from Langevin 2001

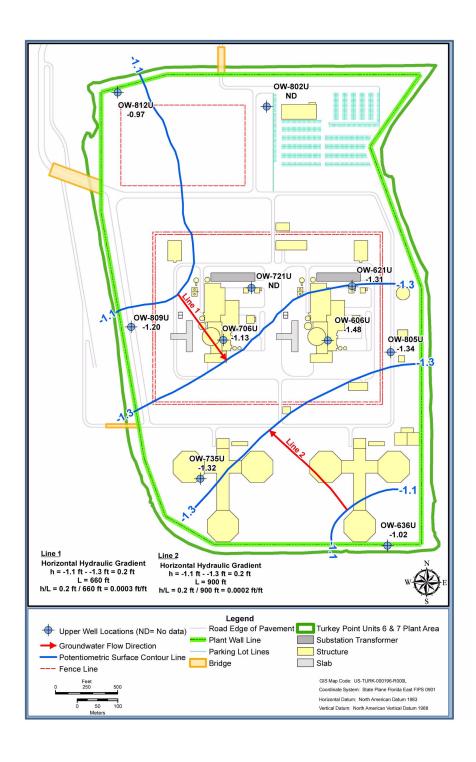
2.3-212 Revision 6

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



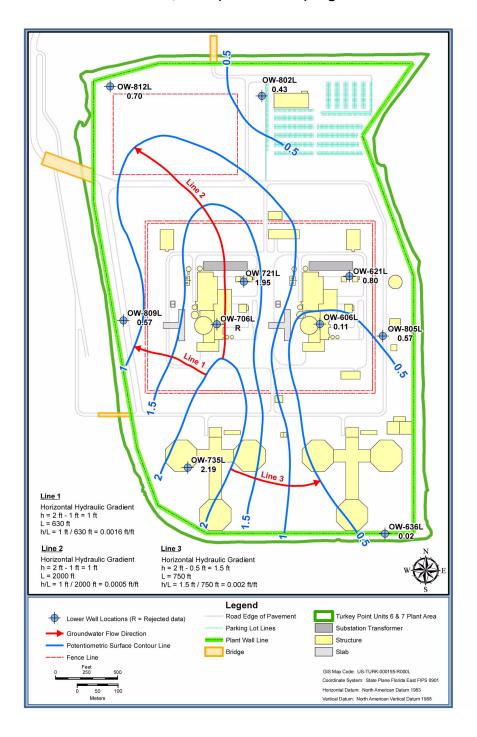
2.3-213 Revision 6

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



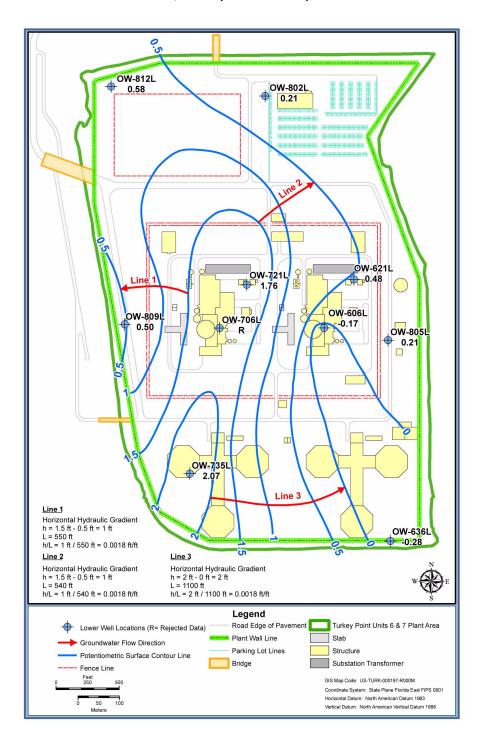
2.3-214 Revision 6

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



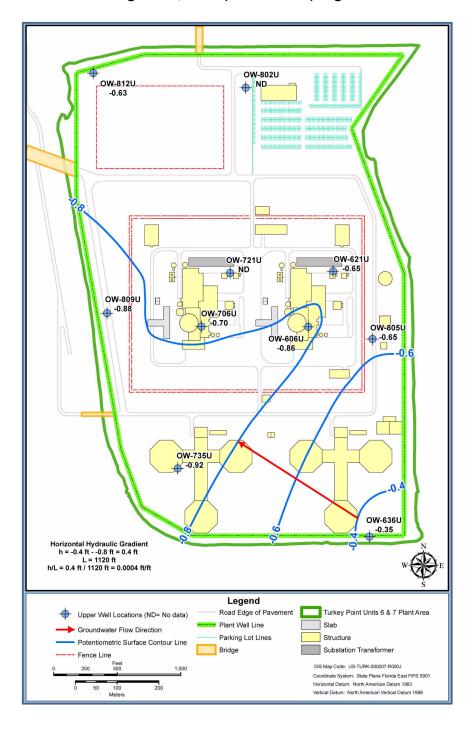
2.3-215 Revision 6

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



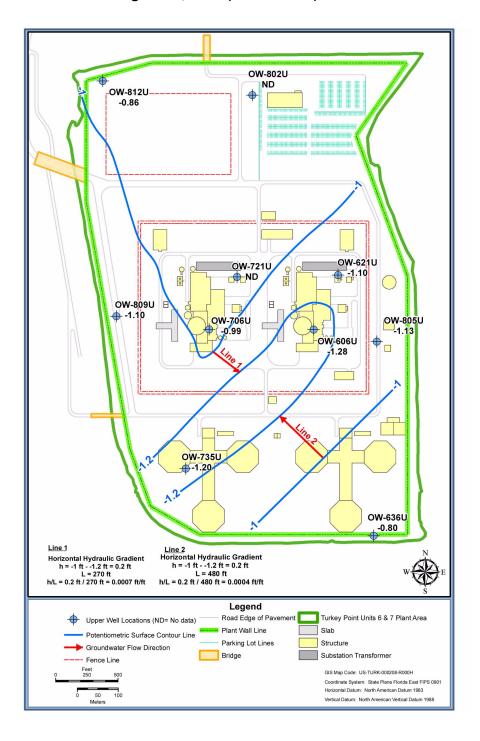
2.3-216 Revision 6

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



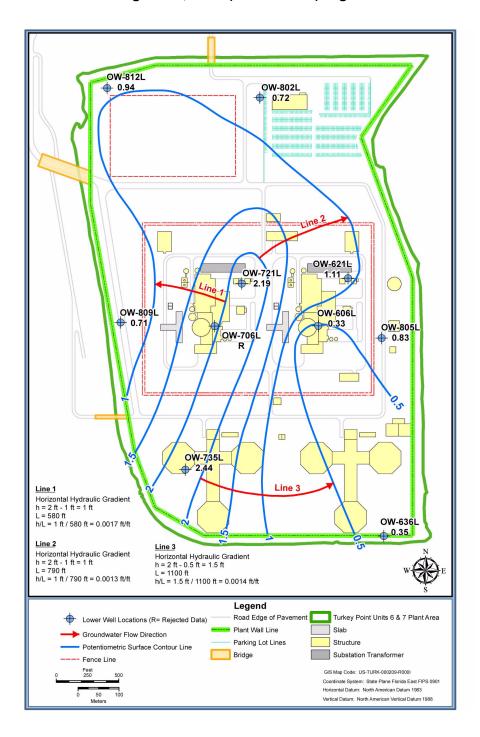
2.3-217 Revision 6

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



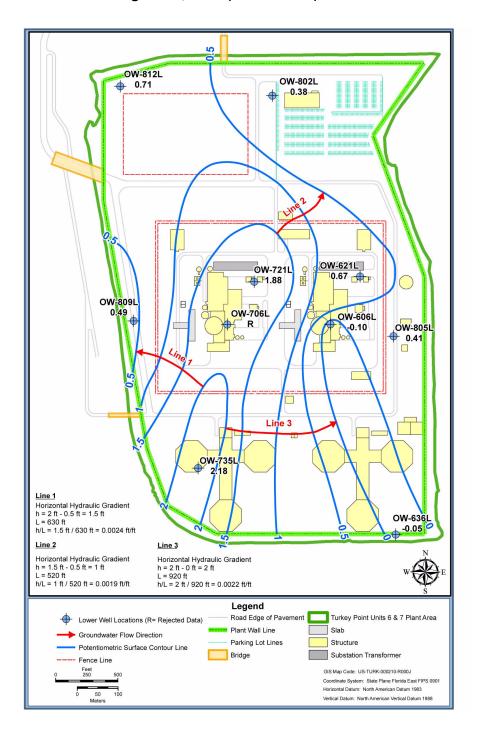
2.3-218 Revision 6

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



2.3-219 Revision 6

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



2.3-220 Revision 6