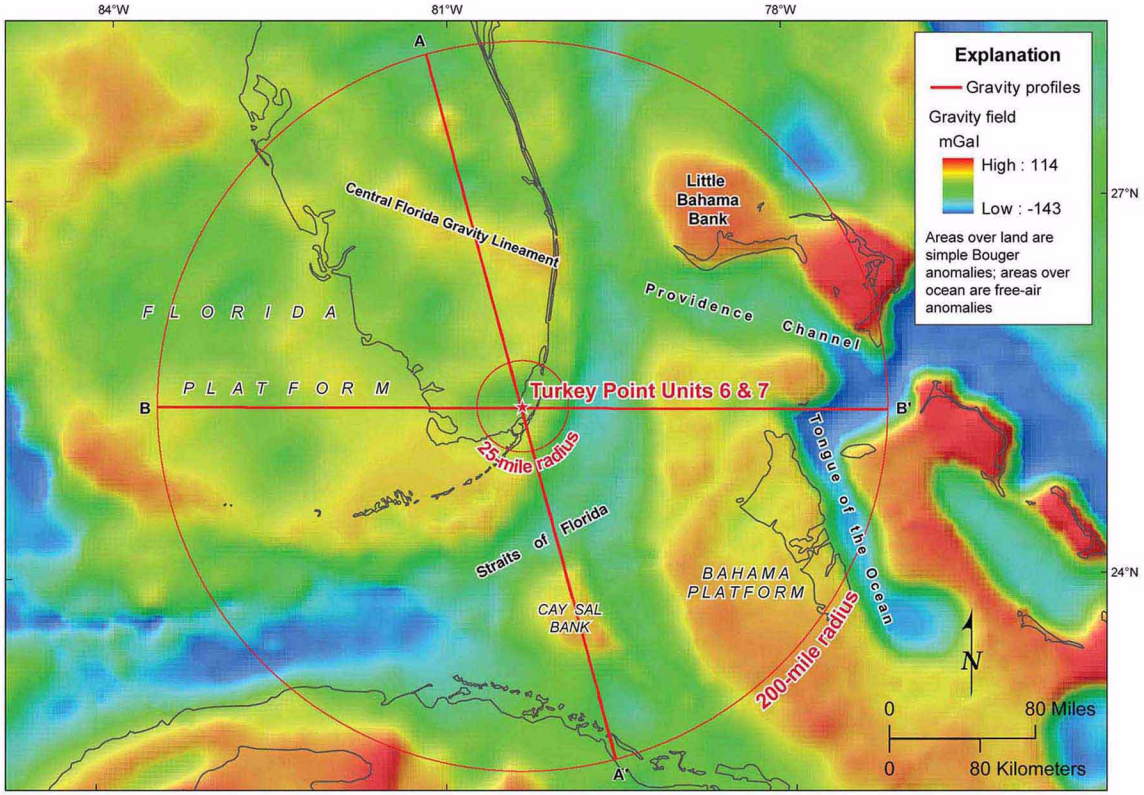
PTN COL 2.5-1

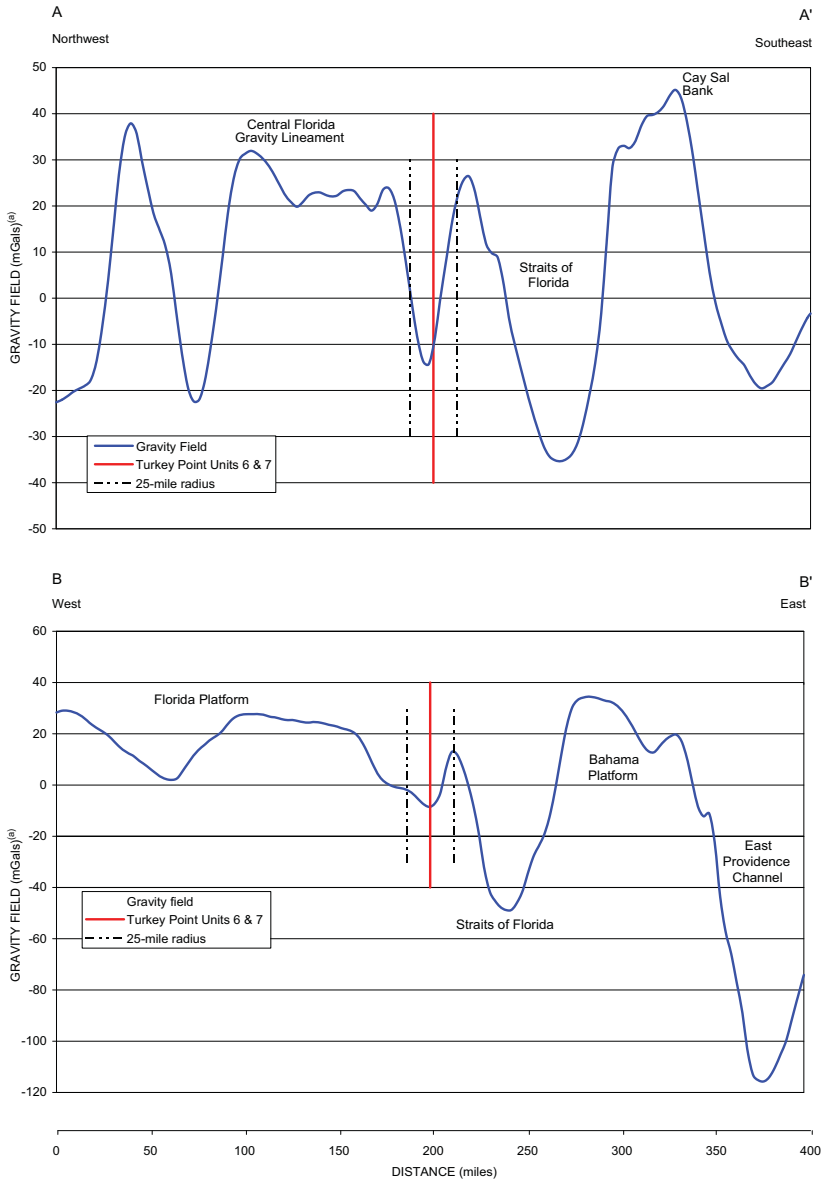
Figure 2.5.1-219 Gravity Field for the Site Region



Note: Gravity includes bouger over land and free-air over water.
Source of bouger gravity information: References 262 and 225
Source of physiographic features: Reference 342

PTN COL 2.5-1

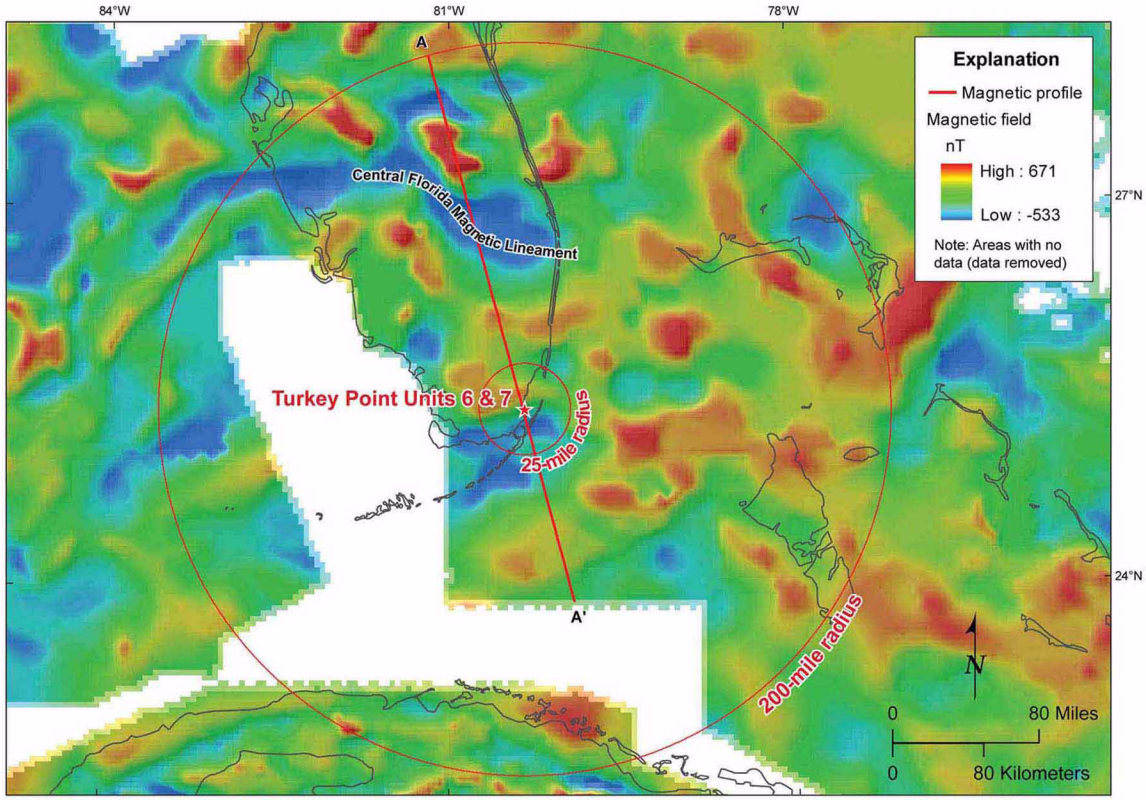
Figure 2.5.1-220 Gravity Profiles A-A' and B-B'



Notes:
(a) Gravity includes bouger over land and free-air over water
Physiographic features adapted from Reference 343.

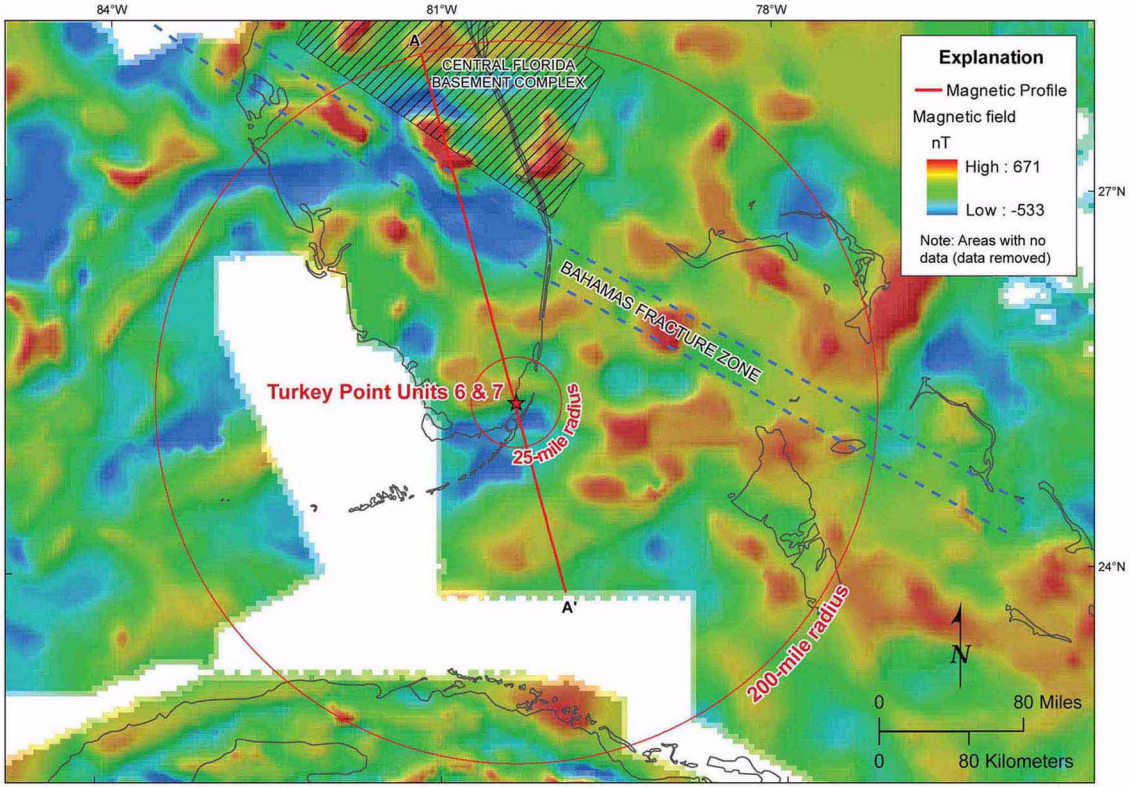
PTN COL 2.5-1

Figure 2.5.1-221 Magnetic Field for the Site Region



Source of magnetic information: References 262 and 225
Source of basement complex and Bahama faults: Reference 282

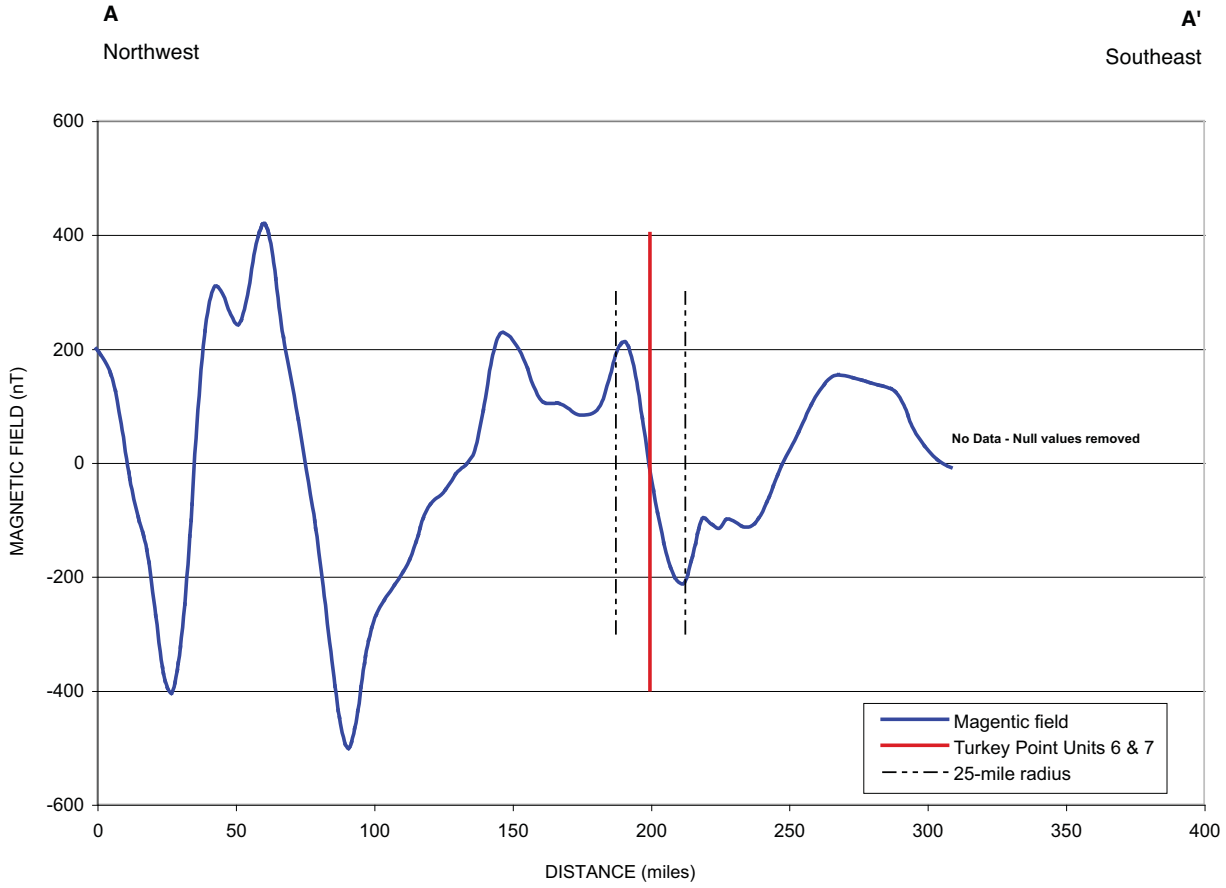
PTN COL 2.5-1 **Figure 2.5.1-222 Regional Magnetic Field Annotated with Locations of the Central Florida Basement Complex and Bahamas Fracture Zone**



Source of magnetic information: References 262 and 225
Source of basement complex and Bahama faults: Reference 282

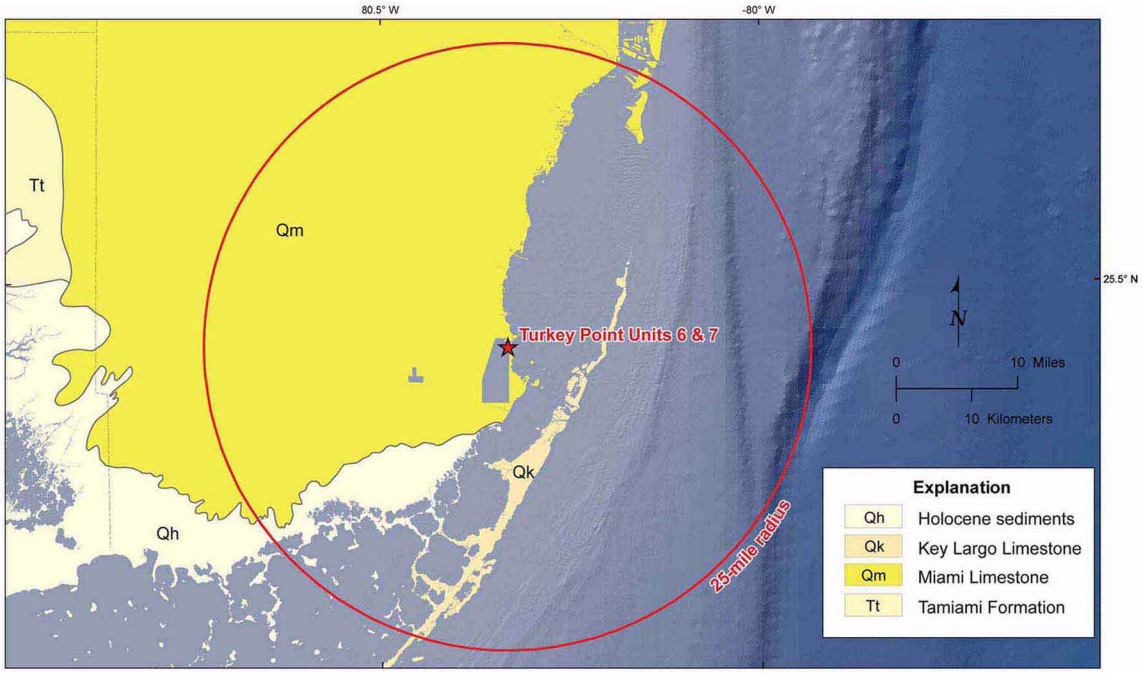
PTN COL 2.5-1

Figure 2.5.1-223 Magnetic Profile A-A'



PTN COL 2.5-1

Figure 2.5.1-224 Site Vicinity Geologic Map



Base sources: References 375 and 309
Source of geologic information: Reference 218

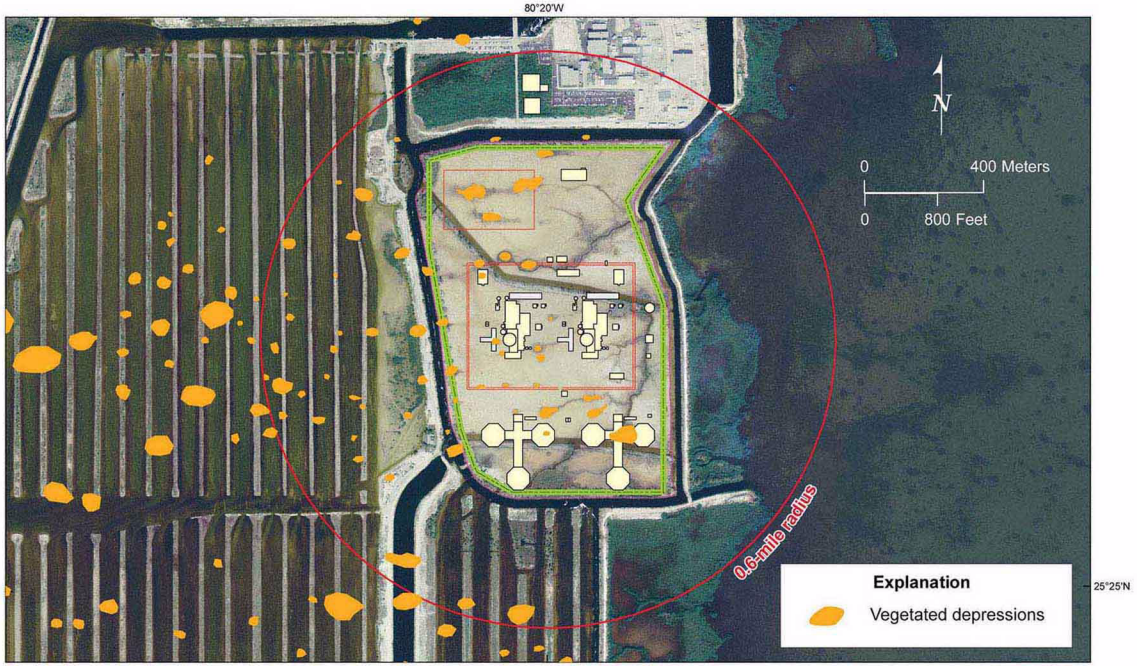
PTN COL 2.5-1

Figure 2.5.1-225 Site Stratigraphy

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	>160
								drilling ended at -616.5 ft	

Note: See Figures 2.5.1-231 through 2.5.1-234 for site stratigraphy underlying the FPL COL boreholes.

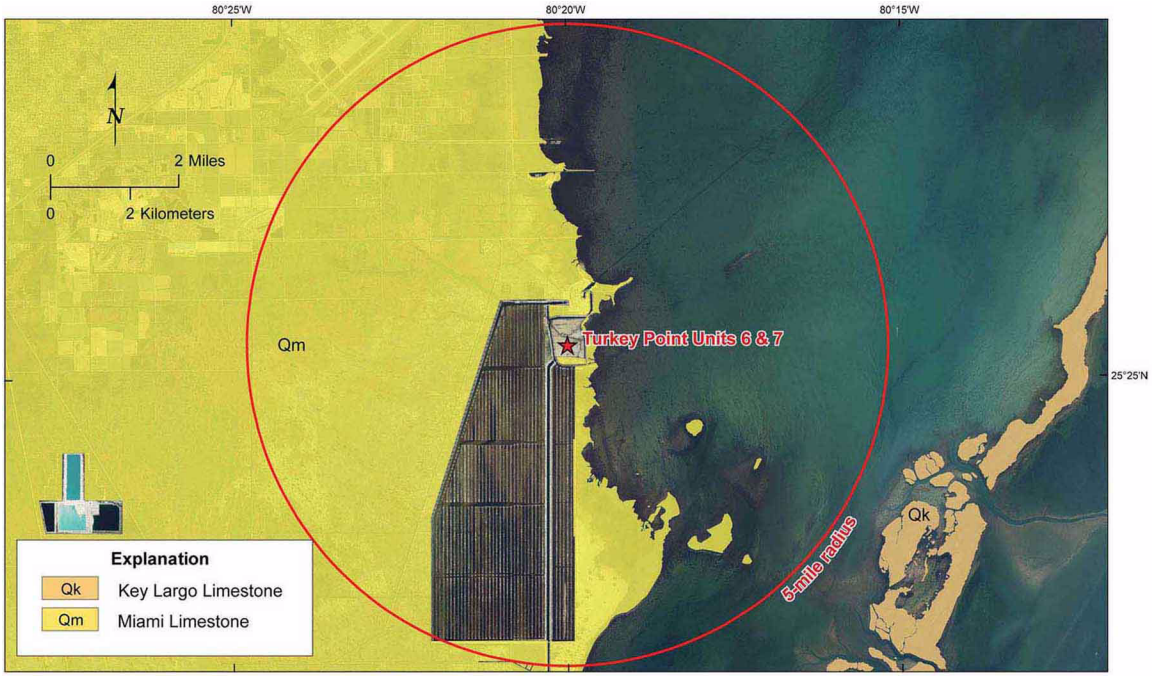
PTN COL 2.5-1 **Figure 2.5.1-226 Vegetated Depressions Identified Within Site from Photographs Taken Before Construction of the Cooling Canal System**



Note: Reconnaissance mapping performed using 1940's 1:40,000 scale panchromatic stereo aerial photography (Reference 382), but shown on 2004 imagery (Reference 375) of the Units 6 & 7 site for reference.

PTN COL 2.5-1

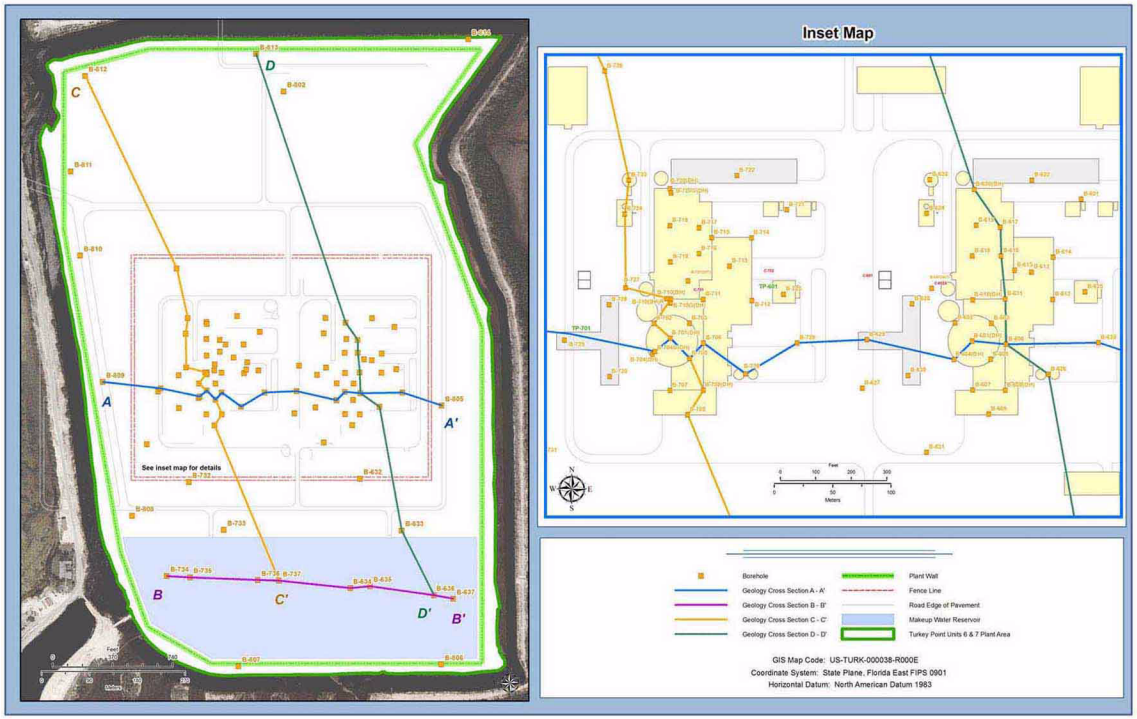
Figure 2.5.1-227 Site Area Geologic Map



Base source: Reference 375
Source of geologic information: Reference 218

PTN COL 2.5-1

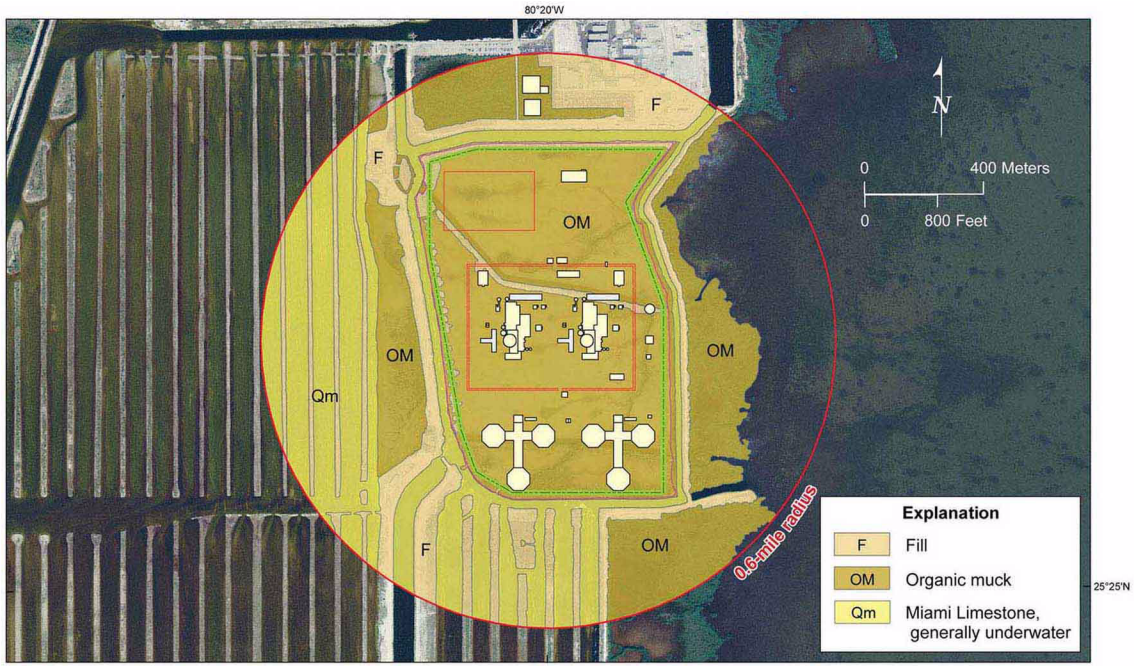
Figure 2.5.1-228 Locations of Geologic Cross Sections



Note: Geologic cross sections A-A' through D-D' are shown on Figures 2.5.1-231 through 2.5.1-234

PTN COL 2.5-1

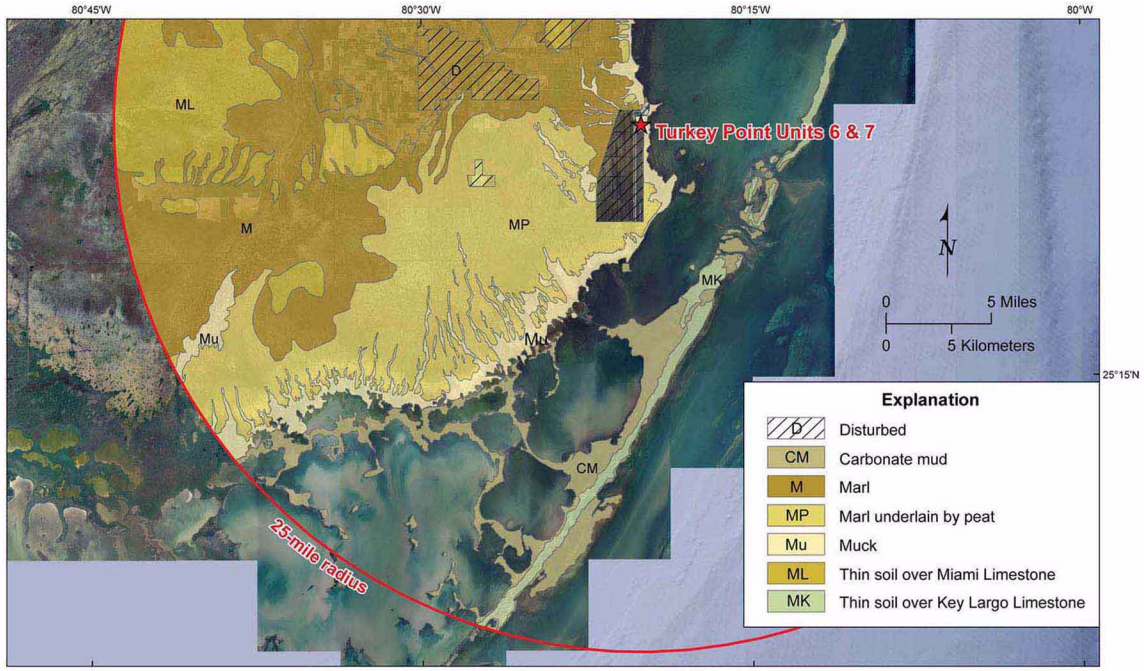
Figure 2.5.1-229 Site Geologic Map



Base sources: References 252, 309, and 375
Source of geologic information: Reference 218

PTN COL 2.5-1

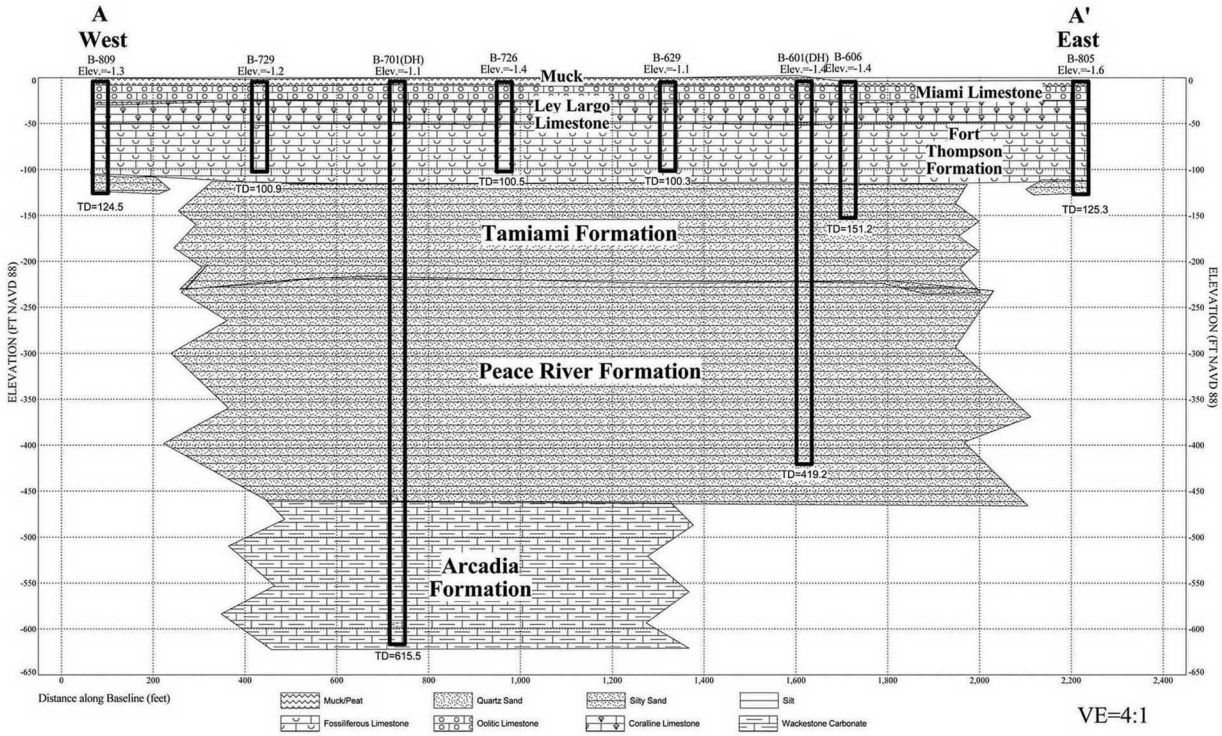
Figure 2.5.1-230 Surficial Deposits Map



Base sources: References 218 and 309
Source of geologic information: References 263 and 264

PTN COL 2.5-1

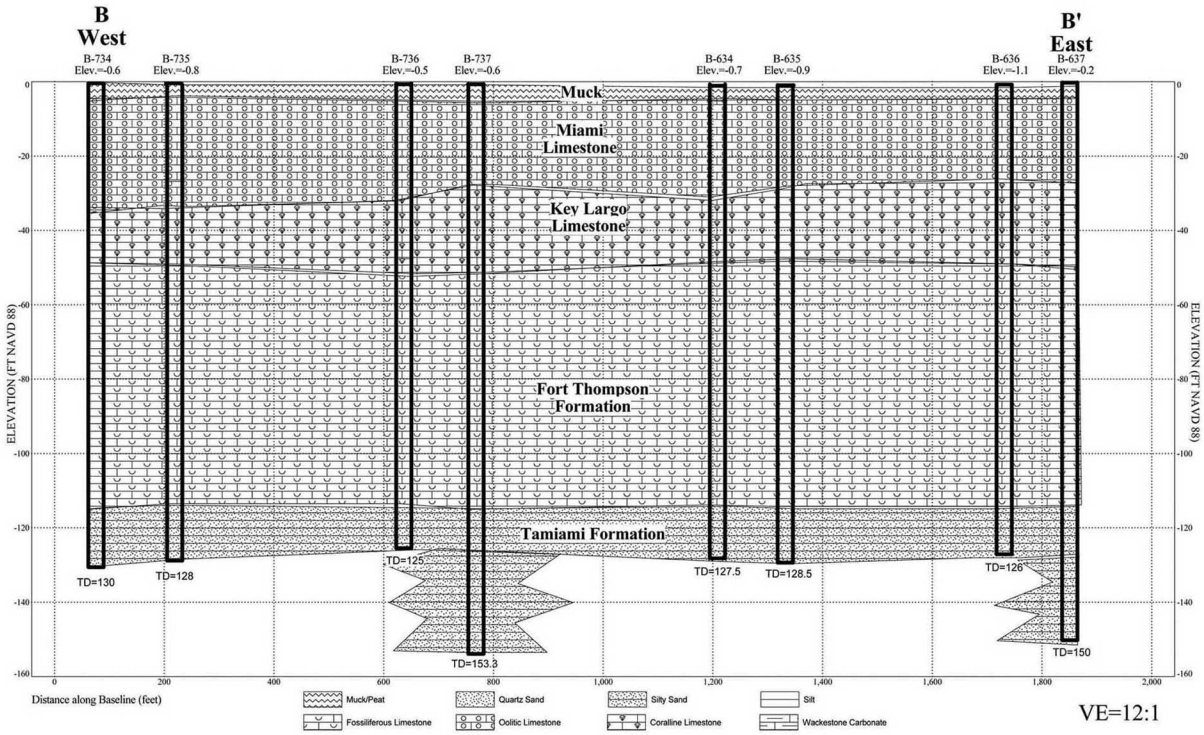
Figure 2.5.1-231 Geologic Cross Section A-A'



Note: The location of this cross-section is shown on Figure 2.5.1-228.

PTN COL 2.5-1

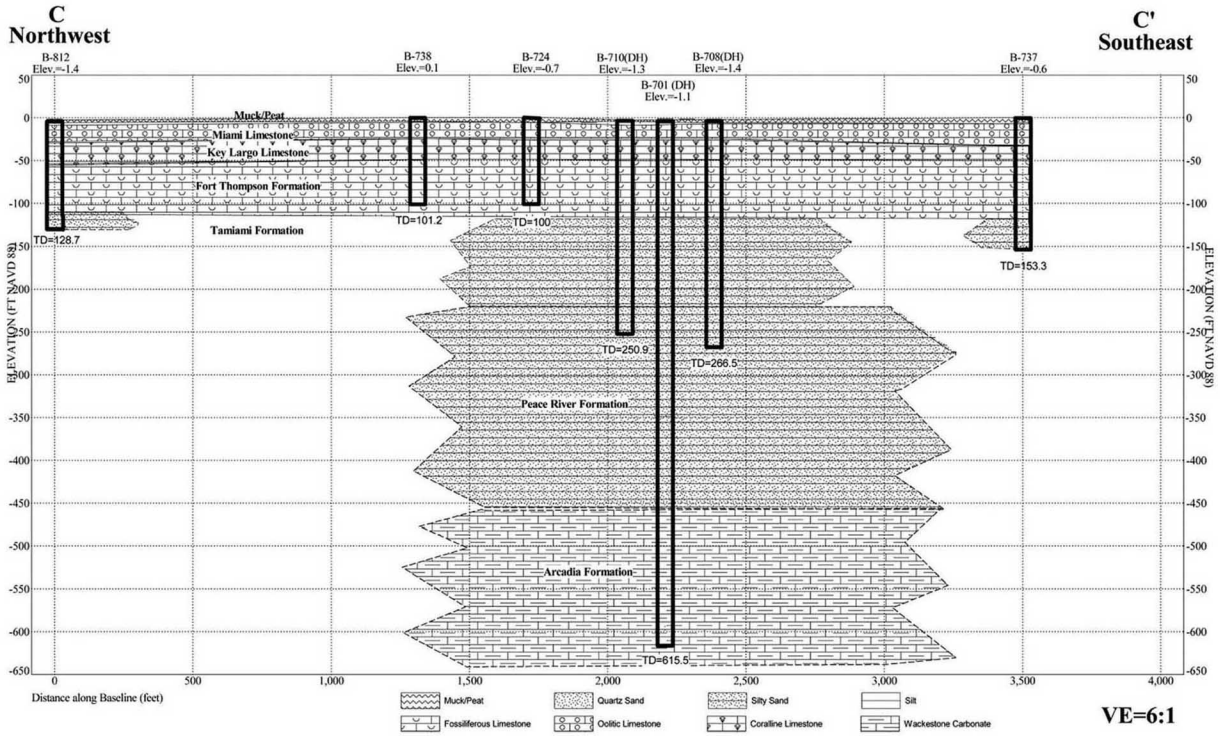
Figure 2.5.1-232 Geologic Cross Section B-B'



Note: The location of this cross-section is shown on Figure 2.5.1-228

PTN COL 2.5-1

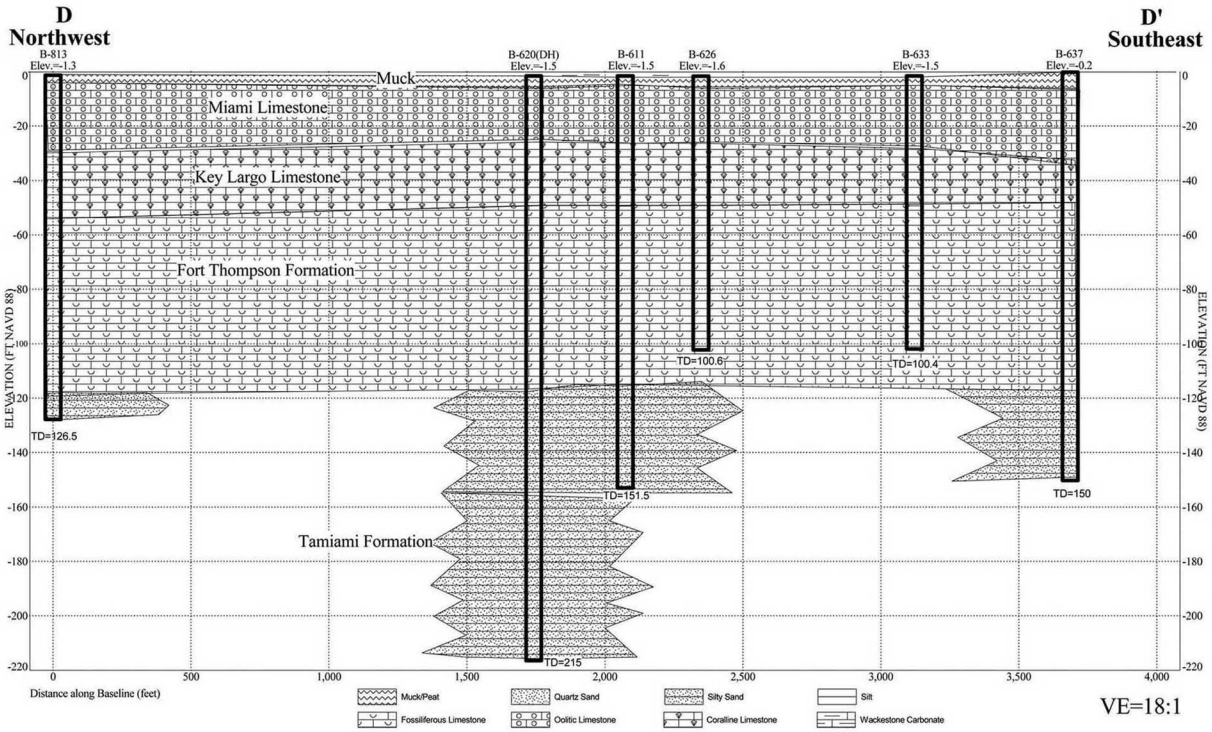
Figure 2.5.1-233 Geologic Cross Section C-C'



Note: The location of this cross-section is shown on Figure 2.5.1-228

PTN COL 2.5-1

Figure 2.5.1-234 Geologic Cross Section D-D'



Note: The location of this cross-section is shown on Figure 2.5.1-228

PTN COL 2.5-1

Figure 2.5.1-235 Isopach of the Site: Key Largo Limestone

PTN COL 2.5-1

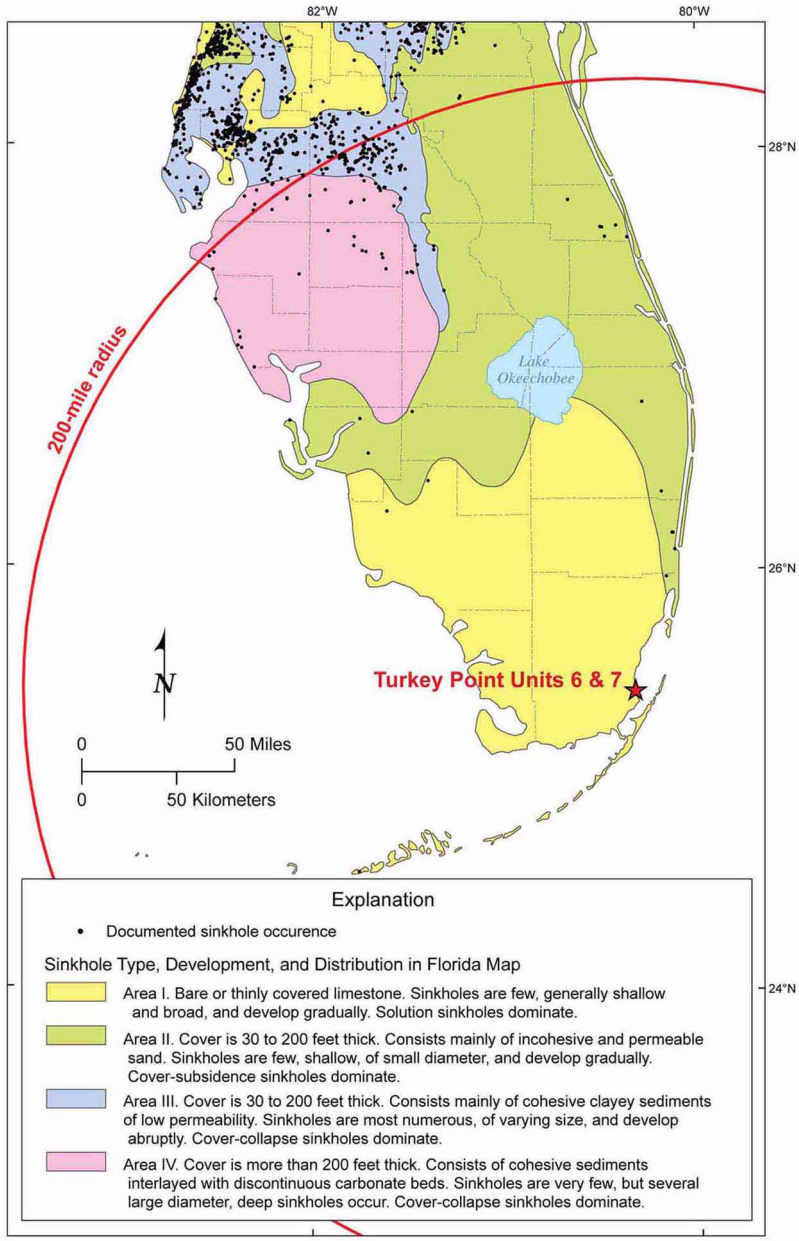
Figure 2.5.1-236 Isopach of the Site: Fort Thompson Formation

PTN COL 2.5-1

Figure 2.5.1-237 Structure Contour Map: Top of Fort Thompson Formation

PTN COL 2.5-1

Figure 2.5.1-238 Sinkhole Type, Development, and Distribution



Note 1: Reference 255
Note 2: Reference 344