

**DOWN
Construction
Preliminary Data
Merritt Island National Wildlife Refuge Forest, Volusia County**

**Aquifer System Monitor Wells:
Intermediate V-0841
Floridan V-0840**

SJRWMD Program No. 31-58200

**Division of Ground Water Programs,
Department of Resource Management
St. Johns River Water Management District
Palatka, Florida**

February 11, 1999

*All data, figures, tables and information are provisional and generated for the Division
of Ground Water Program's use.*

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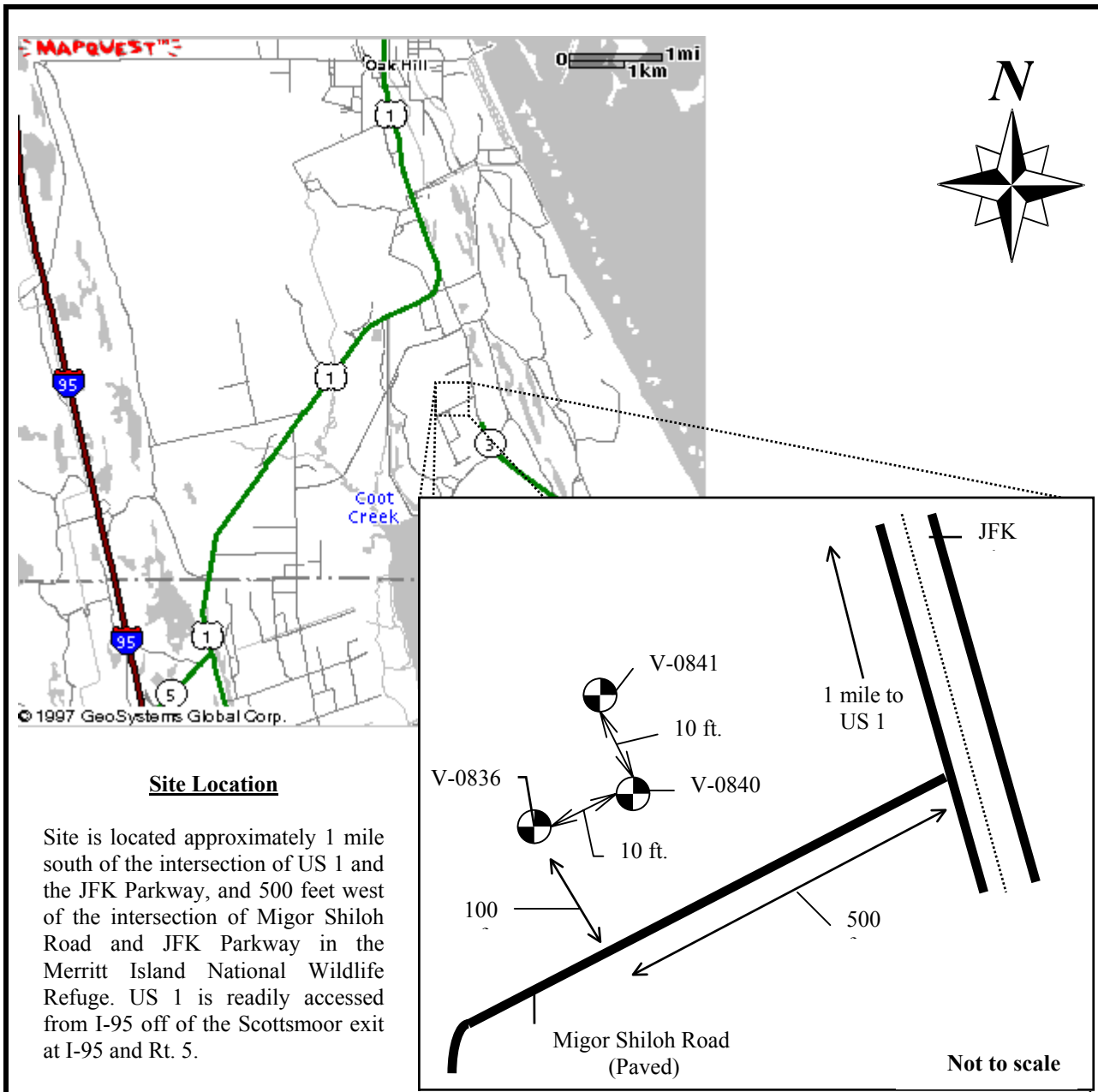
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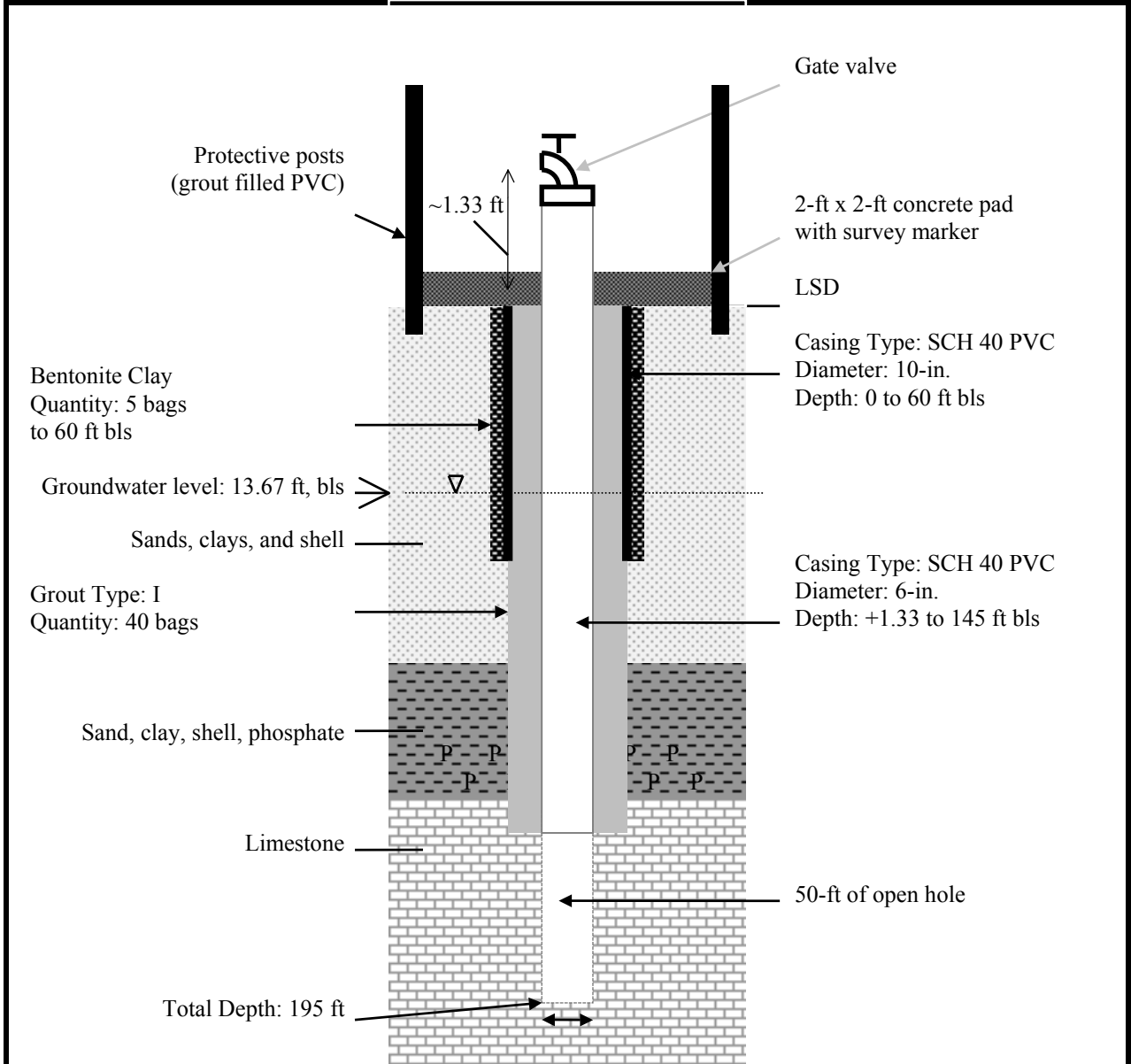


Site: Merritt Island National Wildlife Refuge

Project No: 31-58200

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Figure 1. Site Map



LEGEND
P = Phosphate

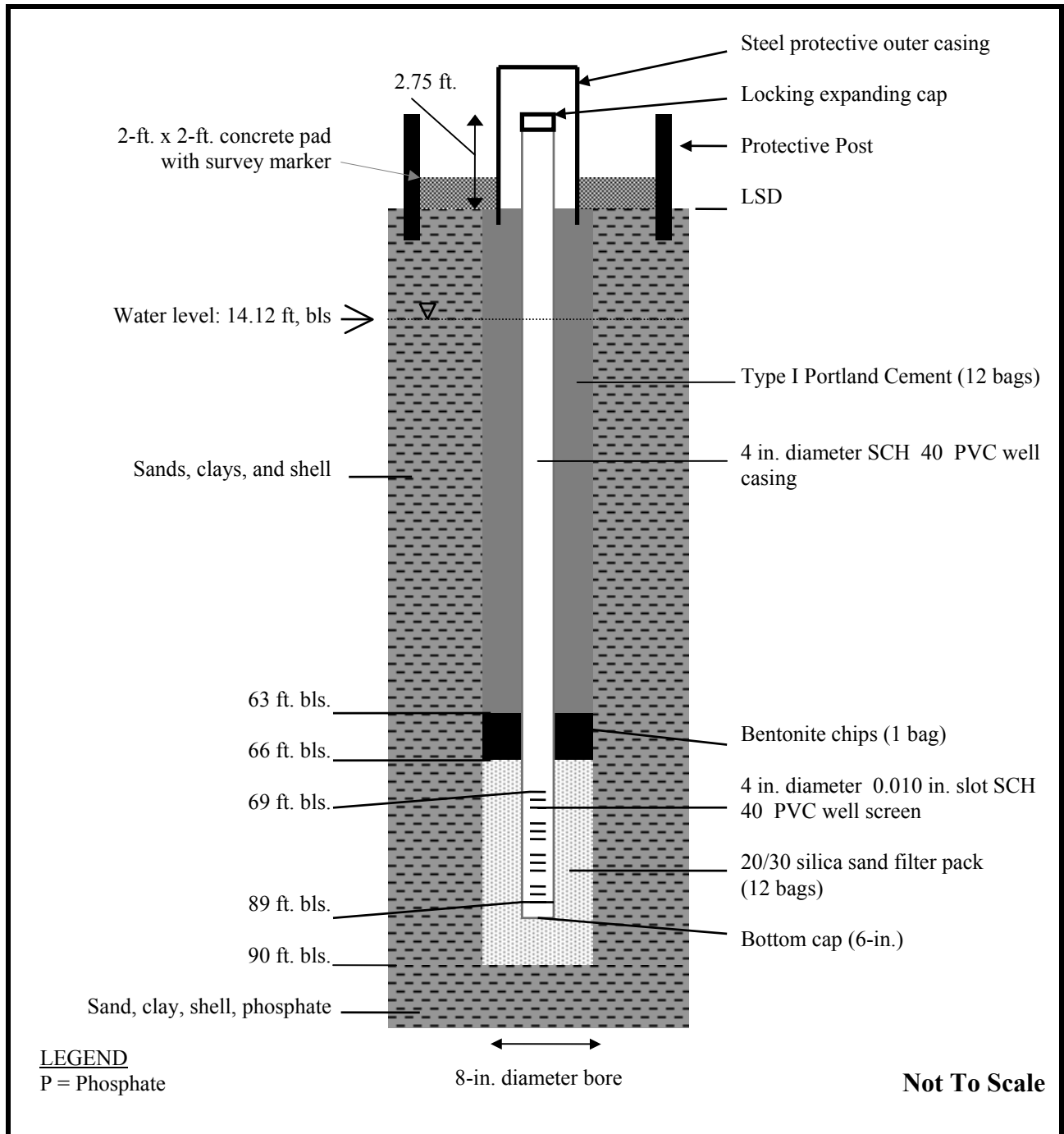
Not To Scale

Site: Meritt Island National Wildlife Refuge

Well Completed: June 26, 1998

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Figure 2. Monitor Well V-0840



Site: Meritt Island National Wildlife Refuge

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Well Completed: June 26, 1998

Figure 3. Monitor Well V-0841

Table 1. Groundwater Quality

Site: Merrit Is. Nat'l Wildlife Refuge Well Number: V-0840

Hydrologist: J. Sego Casing Depth: 145 ft bls

LAB ✓	Date/Time (yy:mm:dd/hh:mm)	Sample Depth (ft, bls)	Open Borehole (ft, bls)	Temp (Deg C)	Chlorides (mg/L)	Conductivity (us/cm)
	980625-1317	195	145-195	NR	NR	60000
	980625-420	195	145-195	NR	NR	70000
	980625-430	195	145-195	NR	20000	NR
	980625-1515	195	145-195	NR	NR	NR
✓	980626-1522	195	145-195	NR	NR	NR

Table 2. Groundwater Quality

Site: Merrit Is. Nat'l Wildlife Refuge Well Number: V-0841

Hydrologist: J. Sego Casing Depth: Screened 69 ft to 89 ft bls

LAB ✓	Date/Time (yy:mm:dd/hh:mm)	Sample Depth (ft, bls)	Screened Interval (ft, bls)	Temp (Deg C)	Chlorides (mg/L)	Conductivity (us/cm)
	980626-1320	89	69-89	NR	4600	7830
	980626-1352	89	69-89	NR	NR	9890
✓	980626-1420	89	69-89	26.7	6120	14000

Table 3. Grout Data

Site: Merrit Is. Nat'l Wildlife Refuge Well ID: V-0840

DATE	TAG DEPTH (ft)	ANNULUS/ BORE (in.)	QUANTITY (yds/bgs)	MATERIAL	COMMENTS
06/23/98	60	14- A	5 bgs	Bentonite	Set 10-in. casing to 60 ft. bls.
06/24/98	145	10- A	40 bgs	Type I Portland	Set 6-in. casing from 145 ft bls to +3-ft

Lithologic Description

Site: Merrit Is. Nat'l Wildlife Refuge

Well Number: V-0840

Hydrologist: J. Sego

From (ft)	To (ft)	Hammer Blow Counts	Lithology
0	58	NA	No samples collected
58-60	60	Shelby Tube	Sand and clay, gray
64-66	66	1/3/3/3	Clay, sandy, gray-green, with shell to 65 ft. bls, shell bed with clay to 66 ft. bls.
69-71	71	2/4/6/7	Clay, sandy, gray-green to 70 ft. bls., sand, medium fine, and shell, with some clay to 71 ft. bls.
74-76	76	2/4/5/7	Sand, fine, gray-green, with silt and some shell
79-81	81	3/6/9/5	Sand, fine, gray-green, with shell fragments
84-86	86	2/4/5/7	Sand, fine, gray-green, with shell fragments to 85 ft. bls., shell bed (lost mud circulation)
89-91	91	2/2/2/2	Sand, fine, gray-green, with some clay
94-96	96	2/2/2/1	Sand, fine, gray-green, with some clay
99-101	101	2/5/5/3	Shell, and clay, green to 100 ft. bls., gray clay and phosphatic shell to 101 ft. bls.
104-106	106	6/5/7/20	Shell fragments (> 0.5 in. thick) with sand medium fine, gray, calcareous, with some silt, phosphate, and lenses of green clay and sand (lost mud circulation)
109-111	111	1/1/3/9	Sand and clay, olive green, phosphatic, with shell
113-119	119	Core Barrel Sample (3 ft. of return)	Silt, light green, well indurated, distinct bedding, phosphatic, with chert to 114 ft. bls., phosphatic green clay and poorly indurated silt to 115.5 ft. bls, sand and clay, dark green, phosphatic, with phosphate intraclasts (1 in. dia.), and indurated green silt, fracture noted from 115.5 to 116 ft. bls.
119-120	120	Core Barrel Sample (1 ft. of return)	Sand, fine and clay, light green, well indurated, phosphatic
120-132	132	NA	Sand, fine and clay, light green, well indurated, phosphatic
132-135	135		Indurated, dolomitized brown, phosphatic limestone to 135 ft. bls.
135 -195	195	NA	Limestone, creme colored, fossiliferous (<i>numulites</i> , <i>lepidocyclina</i>), dolomitic @ 170 ft. bls, trace clay, white at 185 ft. bls., voids noted from 179-195 ft. bls.