

**DOWN
Construction
Preliminary Data
Smokehouse Lake Site
Lake Louisa State Park, Lake County**

**Aquifer System Monitor Wells:
Surficial L-0710
Floridan L-0709**

SJRWMD Program No. 31-58200

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

December 9, 2002

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

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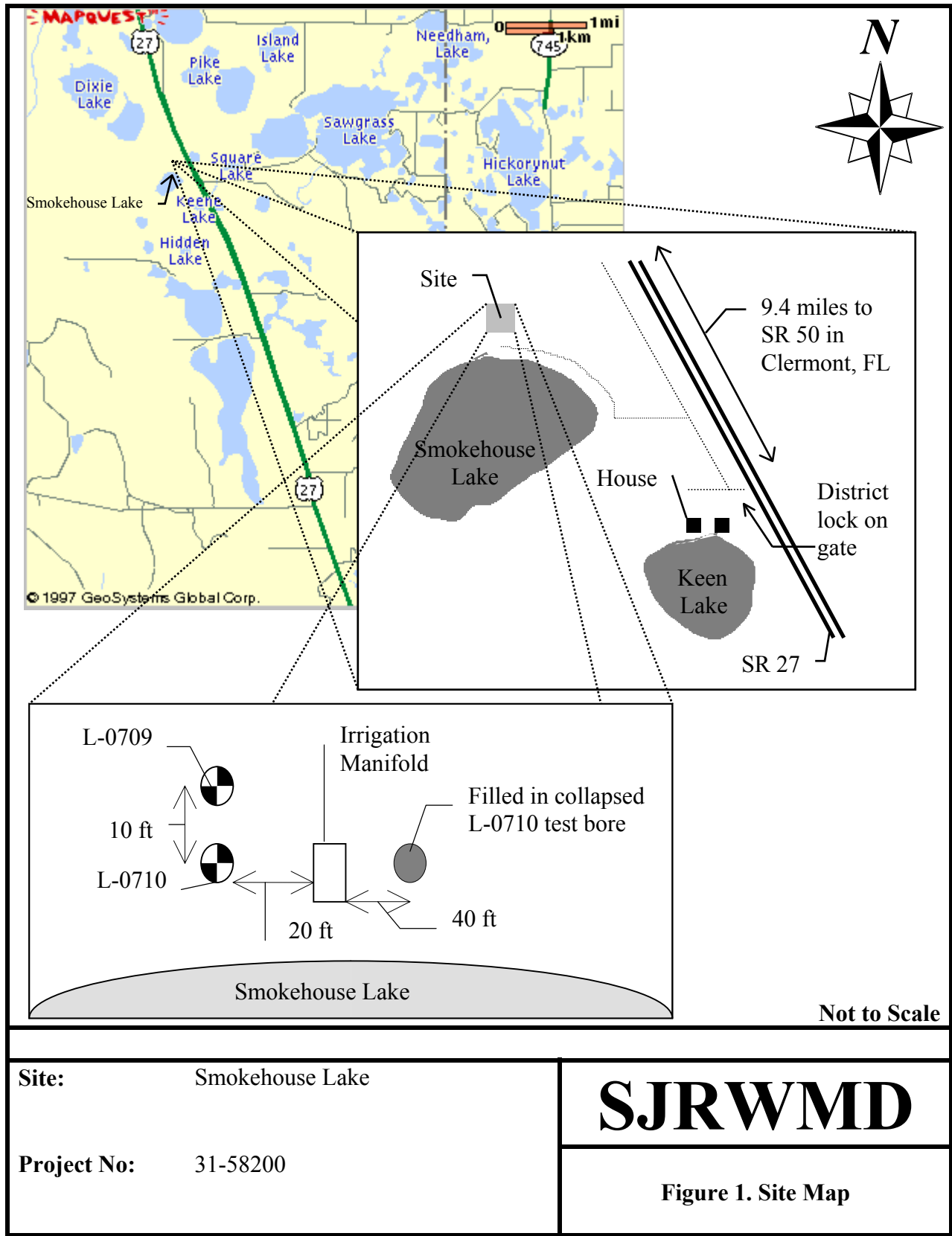
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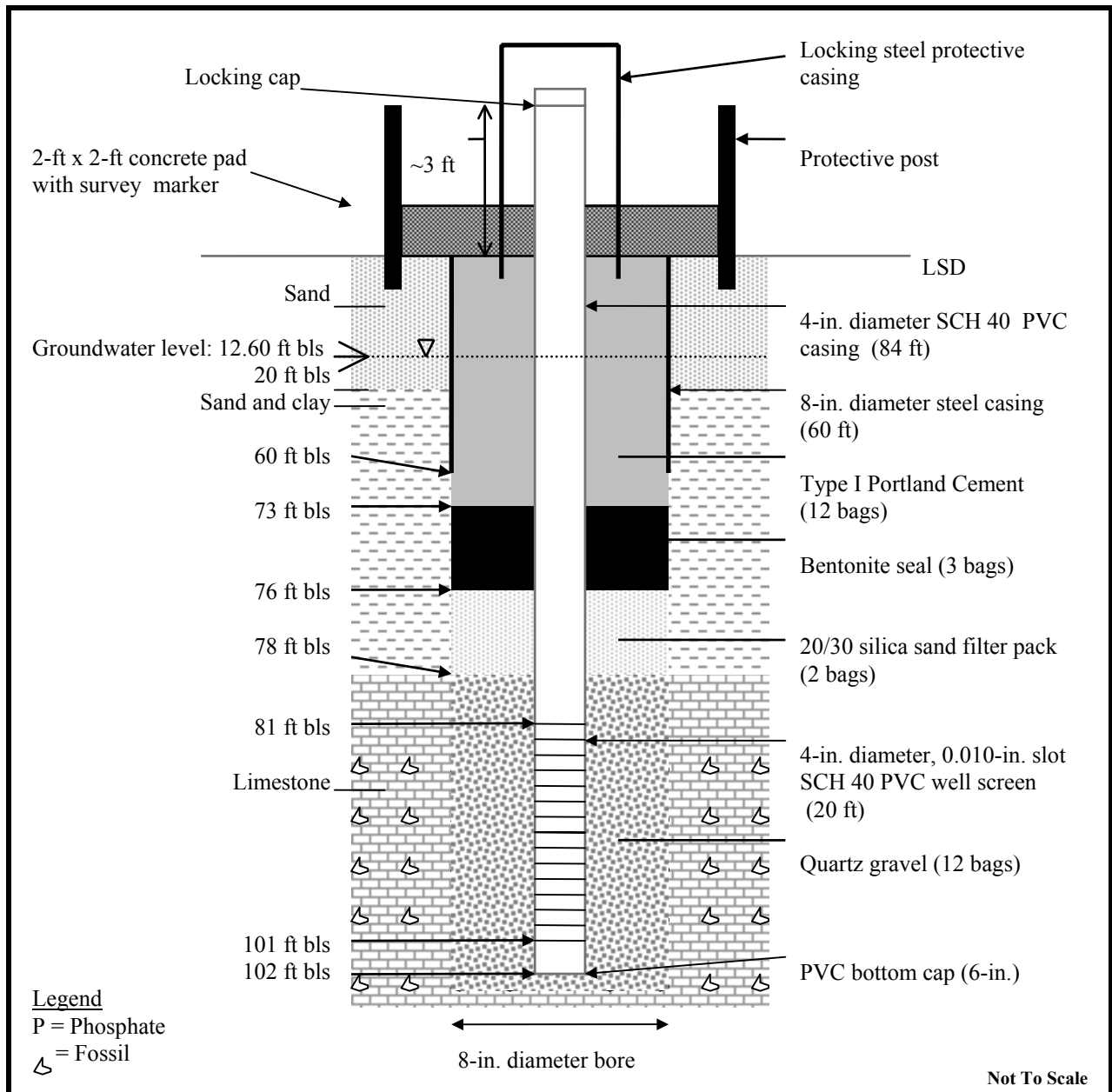
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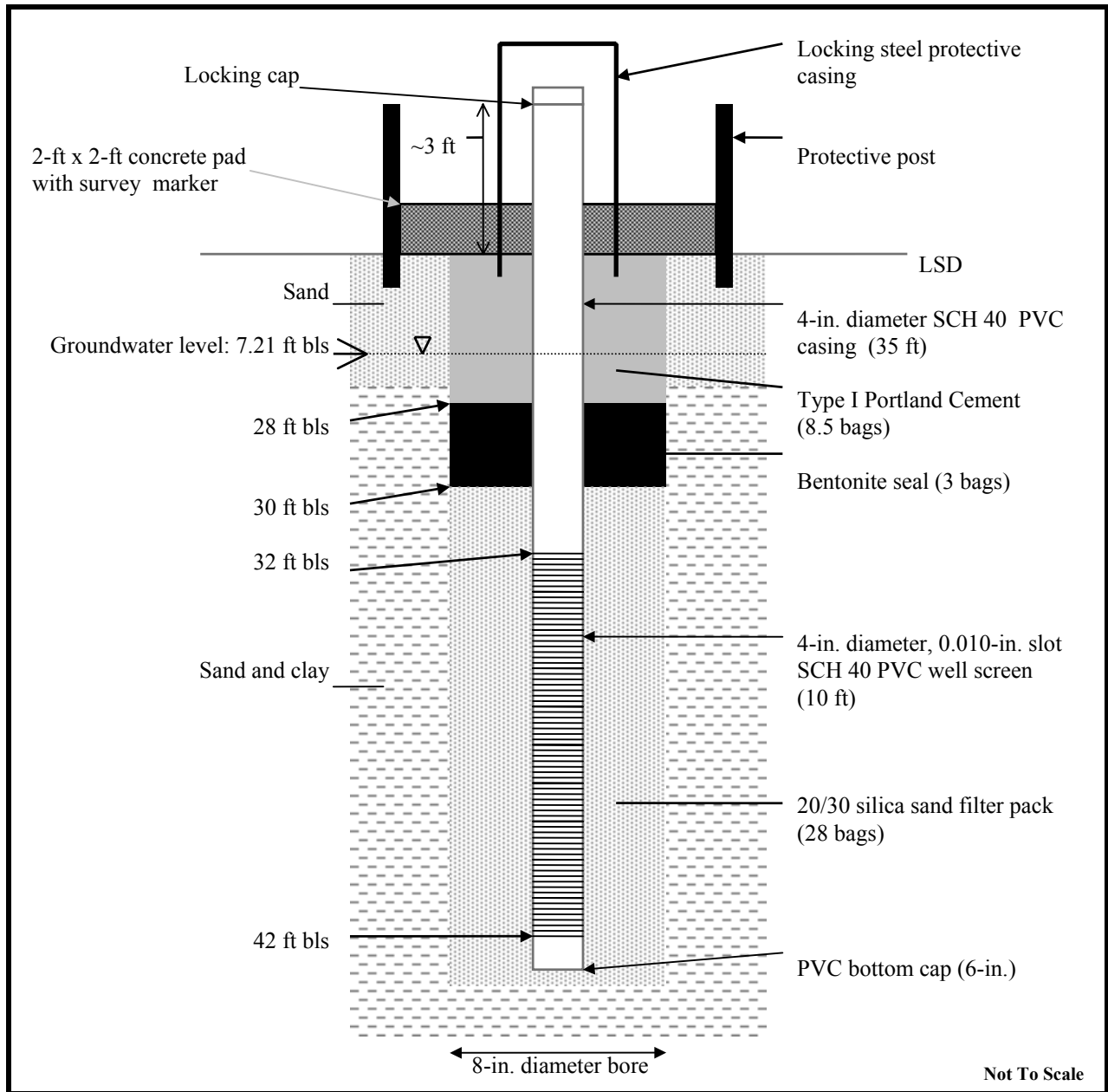


Site: Smokehouse Lake

SJR WMD

Well Completed: January 13, 1998

Figure 2. Monitor Well L-0709



Site: Smokehouse Lake

SJRWMD

Well Completed: December 18, 1997

Figure 3. Monitor Well L-0710

Table 1. Groundwater Quality

Site: Smokehouse Lake

Well Number: L-0709

Hydrologist: J. Sego

Casing Depth: Screened from 81 ft bls to 101 ft bls

LAB ✓	Date/Time (yy:mm:dd/hh:mm)	Sample Depth (ft, bls)	Screened Interval (ft, bls)	Temp (Deg C)	Conductivity (us/cm)
	980113-1125	101	81-101	NR	NR
	980113-1130	101	81-101	21.5	550
	980113-1135	101	81-101	22	460
	980113-1140	101	81-101	23	350
	980113-1145	101	81-101	24	320
	980113-1150	101	81-101	23.5	295
	980113-1155	101	81-101	24	280
	980113-1200	101	81-101	24	270
	980113-1205	101	81-101	24	267
	980113-1210	101	81-101	24	260
	980113-1215	101	81-101	24	260
	980113-1220	101	81-101	24	260
✓	980113-1225	101	81-101	24	255

*Well developed using 4-in. diameter submersible electric pump yielding 10 gpm..

Table 2. Groundwater Quality

Site: Smokehouse Lake

Well Number: L-0710

Hydrologist: J. Sego

Casing Depth: Screened from 32 ft bls to 42 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)
	980112-1050	42	32-42	NR	NR	NR
	980112-1100	42	32-42	NR	NR	NR
	980112-1110	42	32-42	27.6	6.30	NR
	980112-1120	42	32-42	30.6	6.25	NR
	980112-1130	42	32-42	27.7	6.20	NR
	980112-1140	42	32-42	28.2	5.99	NR
	980112-1150	42	32-42	27.9	6.07	NR
	980112-1200	42	32-42	27.1	6.09	NR
	980112-1210	42	32-42	26.8	5.98	NR
	980112-1220	42	32-42	26.0	5.95	NR
✓	980112-1230	42	32-42	26.5	6.00	NR
	980112-1240	42	32-42	26.2	5.97	NR
	980112-1250	42	32-42	25.9	5.91	NR

*Well developed using drill rig Moyno pump and Bariphos dispersant on 12/17/97 yielding 1 gpm. Well developed using drill rig Moyno pump, BK hand pump, and Bariphos dispersant on 12/18/97 yielding 1 gpm. Well developed again on 01/12/98 using 4-in. diameter electric submersible pump yielding 2 gpm.

Table 3. Grout Data

Site: Smokehouse Lake

Well ID: L-0709

DATE	TAG DEPTH (ft)	ANNULUS/BORE (in.)	QUANTITY (yds/bgs)	MATERIAL	COMMENTS
01/12/98	60	10- A	NA	NA	Drive 60 ft of 10-in. diameter SCH 40 casing from to 60 ft bls
01/13/98	101	8- A	14 bgs	Quartz Gravel	Set 20 ft of 4-in. diameter SCH 40 0.010 inch slot screen from 81 ft to 101 ft bls attached to
	78	8- A	2 bgs	20/30 Silica Sand	84 ft of 4-in. diameter SCH 40 casing from +3 ft to 81 ft bls
01/13/98	76	8- A	3 bgs	Bentonite Holeplug	Set bentonite seal from 73 ft to 76 ft bls
01/13/98	73	8- A	12 bgs	Type I Portland	Grout surface casing to LSD
01/13/98	0	NA	2 bgs	Concrete	Set steel protective outer casing in 2-ft by 2-ft
	0	NA	2 bgs	20/30 Silica Sand	concrete pad with (4) 4-in. by 5-ft concrete and sand filled PVC posts set in concrete

Lithologic Description

Site: Smokehouse Lake **Well ID:** L-0710 test borehole

Samples Described By: J. Segó

From (ft)	To (ft)	Lithology
0	5.5	Sand, tan, medium with organic material to 1.5 ft bls; then med-fine sand to 3 ft bls; then coarse to fine to 5.5 ft bls
5.5	15	Sand, med-fine, and clay, red-orange; with some sand, coarse and clay, yellow in discrete beds @ 10 ft bls
15	20	Sand, med-fine, and clay, white-orange/red; with some sand, coarse
20	25	Sand, med-fine, white-orange; with silt and clay
25	30	Sand, coarse-medium, well rounded, quartzitic; with white silt and clay
30	45	Sand, med-fine, white; with silt and trace clay
45	55	Sand, med-fine, tan; with silt and clay
55	60	Sand, fine, tan; with organic silt and clay
60	65	Sand and silt/clay, tan-brown, organic
65	75	Clay, gray-olive; with sand, fine, and some sandstone 65 to 69 ft bls
75	78	Clay and silt, black; with indurated chert/limestone bed (2-5 mm thick)
78	85	Limestone, gray, poorly indurated; with trace phosphate and clay, fossiliferous (<i>lepidocyclina</i>)
85	101	Limestone, light gray, indurated fossiliferous (<i>lepidocyclina</i>), and calcareous sand

Figure 4. Monitor Well L-0709 Geophysical Log

