

APPENDIXES

Appendix 1. Ground-water sites with water-quality and water-level data

[Site identifiers in boldface are the 18 wells added as part of this study. USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; ICU, intermediate confining unit; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; c, continuous data; p, periodic; --, no data. Site number refers to figure 8]

Site identifier	Site number	Site name	Collecting agency	Aquifer	Site type	Altitude (feet above NGVD 29)	Casing length (feet)	Depth of well (feet below land surface)	Water-quality data	Water-level data
02234600	1	Wekiva Springs	USGS	UF	spring	--	--	--	yes	
02234610	2	Rock Springs	USGS	UF	spring	--	--	--	yes	
282051081183401	3	Boggy Creek UF well	USGS	UF	well	74.20	199	400	yes	c
282051081183402	4	Boggy Creek surf well	USGS	SAS	well	74.57	5	10	yes	p
282127081053901	5	Cocoa 44 near Bithlo	USGS	UF	well	--	296	418	yes	
282141081241701	6	Tely relay	USGS	UF	well	86.17	317	418	no	p
282145081053801	7	Cocoa 43 near Bithlo	USGS	UF	well	--	320	420	yes	
282201081353703	8	Tree Farm well 14-4	USGS	SAS	well	--	--	42	yes	
282202081384601	9	Lake Oliver UF well	USGS	UF	well	117.12	103	318	no	c
282202081384602	10	Lake Oliver surf well	USGS	SAS	well	117.06	13	38	yes	c
282208081053801	11	Cocoa 42 near Bithlo	USGS	UF	well	--	320	420	yes	
282210081352601	12	Disney surficial well	USGS	SAS	well	99.44	18	18	no	c
282219081242501	13	Well at 441 & 417 near Kissimmee	USGS	UF	well	86	--	--	yes	
282238081053801	14	Cocoa 41 near Bithlo	USGS	UF	well	--	320	420	yes	
282241081112801	15	Moss Park UF well	USGS	UF	well	68.69	240	480	yes	p
282241081112802	16	Moss Park surf well	USGS	SAS	well	69.05	26	29	yes	p
282249081365601	17	RIBs 2 shallow well	USGS	SAS	well	124.72	32	35	yes	p
282250081053801	18	Cocoa 40 near Bithlo	USGS	UF	well	--	310	440	yes	
282300081092401	19	Cocoa 25 near Bithlo	USGS	UF	well	--	300	600	yes	
282304081053901	20	Cocoa 39 near Bithlo	USGS	UF	well	--	310	422	yes	
282315081053801	21	Cocoa 38 near Bithlo	USGS	UF	well	--	320	426	yes	
282315081093601	22	Cocoa 24 near Bithlo	USGS	UF	well	--	310	600	yes	
282331081093801	23	Cocoa 23 near Bithlo	USGS	UF	well	--	300	600	yes	
282331081370801	24	Hartzog Road UF well	USGS	UF	well	109.34	92	117	yes	p
282331081371101	25	Hartzog surf well	USGS	SAS	well	108.63	--	--	no	p
282339081010201	26	OR0669 (Cocoa 13T)	SJRWMD	UF	well	66.58	70	315	no	p
282341081040101	27	Cocoa A	USGS	UF	well	75.06	301	516	no	c
282344081054201	28	Cocoa 11	USGS	UF	well	75	323	580	yes	
282348080564301	29	OR0715 (Palmetto surf)	USGS	SAS	well	40.28	20	30	yes	p
282348080564701	30	Palmetto well	USGS	UF	well	40.62	244	390	yes	p
282352081224401	31	S. Orange Park surf well	USGS	SAS	well	83	19	29	yes	p
282354081313001	32	RCID obs well 1	USGS	UF	well	110.15	145	281	no	p
282356081091901	33	Cocoa 22 well	USGS	UF	well	--	--	--	yes	
282358081371708	34	Basin 50 35 ft. well RCID RIBs	USGS	SAS	well	140.62	33	35	yes	

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Site identifier	Site number	Site name	Collecting agency	Aquifer	Site type	Altitude (feet above NGVD 29)	Casing length (feet)	Depth of well (feet below land surface)	Water-quality data	Water-level data
282358081372201	35	Well 27 Basin 50	USGS	SAS	well	127.78	33	35	yes	
282400081150201	36	OR0230	SJRWMD	UF	well	--	100	135	yes	
282404081050501	37	Cocoa 12B near Bithlo	USGS	UF	well	74	--	519	yes	
282405081053002	38	Cocoa 4A1 near Bithlo	USGS	UF	well	73	266	527	yes	
282406081093601	39	Cocoa 21	USGS	UF	well	--	--	603	yes	
282406081093602	40	Cocoa R well	USGS	LF	well	68.20	1,098	1,205	yes	p
282411081211301	41	Well near Taft	USGS	LF	well	85	1,098	1,424	yes	
282412081044701	42	Cocoa 12A near Bithlo	USGS	UF	well	75	275	600	yes	
282416081054101	43	Cocoa 4 near Bithlo	USGS	UF	well	72	251	524	yes	
282424081093601	44	Cocoa 20	USGS	UF	well	--	--	602	yes	
282434081283102	45	Sea World Replacement	USGS	UF	well	103.16	158	239	no	c
282451081054501	46	Cocoa 5	USGS	UF	well	70	251	516	yes	
282510081054501	47	Cocoa 1	USGS	UF	well	70.33	316	710	no	p
282510081054502	48	Cocoa M	USGS	SAS	well	70.81	10	10	no	p
282512081153001	49	OR0636	SJRWMD	LF	well	80	1,087	2,440	yes	
282528081340901	50	Bay Lake	USGS	UF	well	97.10	104	223	no	c
282529081073201	51	Cocoa 7A near Bithlo	USGS	UF	well	66	237	710	yes	
282530081054201	52	Cocoa 7	USGS	UF	well	72	285	490	yes	
282530081065601	53	OR0614	USGS	LF	well	66.40	1,170	1,250	yes	p
282530081065602	54	OR0615	USGS	UF	well	66.64	900	1,050	no	p
282530081065603	55	OR0613 well (Cocoa S)	USGS	LF	well	66.58	1,428	1,500	yes	p
282530081085401	56	Cocoa 15 near Bithlo	USGS	UF	well	66	262	702	yes	
282530081091701	57	Cocoa 16 near Bithlo	USGS	UF	well	68	255	600	yes	
282530081094001	58	Cocoa 17 near Bithlo	USGS	UF	well	70	252	600	yes	
282531081054301	59	Cocoa O	USGS	ICU	well	68.60	70	90	no	p
282531081075601	60	Cocoa 13	USGS	UF	well	64	244	509	yes	
282531081075602	61	Cocoa 13R	USGS	LF	well	--	--	1,205	yes	
282531081082201	62	Cocoa 14 near Bithlo	USGS	UF	well	65	252	761	yes	
282531081095701	63	Cocoa D	USGS	UF	well	75.91	226	300	yes	p
282533081082202	64	Cocoa C (Zone 1)	USGS	LF	well	63.71	1,351	1,357	yes	p
282533081082204	65	Cocoa C (Zone 3)	USGS	LF	well	63.77	1,218	1,224	no	p
282533081082205	66	Cocoa C (Zone 4)	USGS	LF	well	63.74	1,044	1,050	no	p
282533081082206	67	Cocoa C (Zone 5)	USGS	LF	well	63.72	248	1,004	no	p
282543081385801	68	82513801	USGS	UF	well	106	--	--	no	p

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Site identifier	Site number	Site name	Collecting agency	Aquifer	Site type	Altitude (feet above NGVD 29)	Casing length (feet)	Depth of well (feet below land surface)	Water-quality data	Water-level data
282548081054201	69	Cocoa 3 near Bithlo	USGS	UF	well	72	266	496	yes	
282556081094001	70	Cocoa 18	USGS	UF	well	71	--	600	yes	
282612081054201	71	Cocoa 2 near Bithlo	USGS	UF	well	68	271	617	yes	
282623081153801	72	Cocoa P	USGS	UF	well	91.48	245	439	yes	c
282624081090401	73	Cocoa 19 near Bithlo	USGS	UF	well	71	--	600	yes	
282631081323301	74	Tibet-Butler surf well	USGS	SAS	well	104	14	24	yes	p
282632081054501	75	Cocoa 8 near Bithlo	USGS	UF	well	67	255	640	yes	
282640080565901	180	Tosohatchee UF well	USGS	UF	well	22	--	203	yes	
282650081054201	76	Cocoa 9 near Bithlo	USGS	UF	well	68	230	525	yes	
282657081230401	77	Sky Lake near Pine Castle	USGS	LF	well	99	960	1,390	yes	
282716081054501	78	Cocoa 10 near Bithlo	USGS	UF	well	63	229	506	yes	
282718081215101	79	Pinecastle Post Office	USGS	UF	well	96.58	--	--	no	p
282722081371701	80	Conserv II well SP5	USGS	SAS	well	143.03	--	53	yes	
282738081341401	81	Lake Sawyer UF well	USGS	UF	well	115	103	178	yes	c
282739081054501	82	Cocoa F	USGS	UF	well	67.29	200	375	yes	p
282739081054502	83	ORO714 (Cocoa F)	USGS	SAS	well	66.68	14	30	yes	p
282739081054503	84	ORO727 (Cocoa F)	USGS	SAS	well	66.67	20	30	yes	p
282745081283501	85	No. 36 SW No. 3	USGS	LF	well	145	1,003	1,455	yes	
282835081305201	86	Palm Lake well	USGS	UF	well	152	161	235	no	c
282838080572401	87	Turkey Camp UF well	USGS	UF	well	21.66	80	120	yes	p
282838080572402	88	OR0713 (Turkey Camp surf)	USGS	SAS	well	21.60	8	17	yes	c
282838080572403	89	OR0726 (Turkey Camp surf)	USGS	SAS	well	21.65	7	17	no	p
282847081013701	90	Cocoa H	USGS	UF	well	60	252	495	yes	p
282847081013702	91	Cocoa K	USGS	SAS	well	60	8	8	no	p
282848080544501	92	Duck Pond UF well	USGS	UF	well	14.60	152	335	yes	p
282856080544101	93	Duck Pond surf well	USGS	SAS	well	14	4	9	yes	p
282910081181301	94	Conway No. 3	USGS	UF	well	97.72	148	700	no	p
282912081181201	95	OR0722 in Pine Castle	USGS	SAS	well	97.82	18	30	yes	p
282923081282801	96	82912802	USGS	UF	well	124	168	337	no	p
282924081290401	97	Orange Co. Hidden Springs	USGS	UF	well	152	185	492	yes	
282931081285901	98	Orange Co. Hidden Springs	USGS	LF	well	145	800	1,400	yes	
282936081340201	99	Ross well	USGS	UF	well	111.92	180	280	no	p
283003081283801	100	Turkey Lake surf well in Orlando	USGS	SAS	well	125	44	54	yes	c
283003081283901	101	Turkey Lake UF well	USGS	UF	well	125	--	305	no	c

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283006081274101	102	33 Kirkman No. 3	USGS	LF	well	94	100	1,400	yes	
283007081122705	103	OR0678	USGS	UF	well	81.26	130	470	no	p
283007081122801	104	OR0668	SJRWMD	LF	well	81.26	130	470	yes	p
283011081152301	105	E. Regional UFMW	USGS	UF	well	84	210	560	yes	
283011081152401	106	E. Regional LFMW	USGS	LF	well	80	1,100	1,385	yes	
283017081391301	107	Davenport Rd 4" well	USGS	UF	well	108	--	--	yes	
283033081290301	108	Turkey Lake surf well	USGS	SAS	well	110	19	29	yes	p
283048081194801	109	No. 24 Conway No. 3	USGS	LF	well	109.71	1,063	1,350	yes	
283126081064501	110	OR0617 near Bithlo	USGS	UF	well	58.72	210	550	yes	p
283126081064502	111	OR0618 near Bithlo	USGS	LF	well	58.82	1,140	1,280	yes	
283136081064501	112	OR0648	SJRWMD	UF	well	--	10	70	yes	
283136081064502	113	OR0649	SJRWMD	SAS	well	--	10	20	yes	
283144081254201	114	Lake Mann drain well	USGS	UF	well	94.68	137	400	no	p
283157081180401	115	OR0653	USGS	UF	well	96.12	128	466	no	p
283203080582601	116	OR0519	SJRWMD	UF	well	--	--	--	yes	
283210081180401	117	OR0718 (Englewood Park)	USGS	SAS	well	95.79	25	35	yes	p
283214080583501	118	Dot E Highway 50	USGS	UF	well	14.16	--	200	yes	
283216080593701	119	OR0109	SJRWMD	UF	well	28	--	--	yes	
283228081213501	120	ORO721 (Langford Park)	USGS	SAS	well	76.16	15	25	yes	p
283236081290901	121	Oak Meadows No. 4	USGS	LF	well	111	707	1,260	yes	
283249081053201	122	Bithlo 1 well at Bithlo	USGS	UF	well	63.58	151	492	yes	c
283249081053202	123	Bithlo 2	USGS	ICU	well	63.49	65	75	no	p
283249081053203	124	Bithlo 3 well at Bithlo	USGS	SAS	well	63.14	12	15	yes	p
283251081283501	125	OR0716 (Orange-47 surf well)	USGS	SAS	well	81.46	35	45	yes	p
283253081283401	126	OR-47 at Orlo Vista	USGS	UF	well	81.71	328	350	yes	c
283307081300801	127	OR0101	SJRWMD	UF	well	87.06	118	450	yes	p
283325081374001	128	22S27E20	USGS	UF	well	123.18	148	370	yes	
283327081223201	129	Well No. 7	USGS	LF	well	--	943	1,415	yes	
283333081233501	130	Lake Adair LF well	USGS	LF	well	80.40	601	1,281	no	p
283333081233502	131	Lake Adair UF well	USGS	UF	well	80.40	105	400	no	p
283338081010201	132	OR0675	SJRWMD	UF	well	--	620	840	yes	
283338081204101	133	OR0634	SJRWMD	UF	well	110	524	630	yes	
283340081222803	134	OR0468	USGS	UF	well	80.20	189	450	no	p
283345081225701	135	OR0720 (Ivanhoe Park surf well)	USGS	SAS	well	80	22	32	yes	p

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283353081185801	136	22S30E21	USGS	LF	well	95	1,080	1,371	yes	
283353081222401	137	No. 2	USGS	LF	well	81.31	945	1,445	yes	
283355081194501	138	OR0667	SJRWMD	UF	well	105	152	251	yes	
283357081272201	139	22S29E19	USGS	LF	well	105.63	1,000	1,414	yes	
283402080584101	140	OR0524	SJRWMD	UF	well	10	--	--	yes	
283517081121501	141	CFRP West well near Union Park	USGS	SAS	well	75	10	15	yes	p
283524081344701	142	OR0443	SJRWMD	SAS	well	77	7	12	yes	
283548081181401	143	22S30E10	USGS	LF	well	91	700	1,354	yes	
283555081245101	144	OR0719 (Fairview Park)	USGS	SAS	well	93	21	31	yes	p
283555081300801	145	Ocoee Forest Oaks No. 3	USGS	LF	well	130	1,192	1,450	yes	
283623081230501	146	22S29E02	USGS	LF	well	97.71	1,163	1,450	yes	
283646081195401	147	Bradner well at W.P.	USGS	UF	well	91	119	150	yes	
283809081324801	148	Magnolia Park 8 in. deep	USGS	UF	well	96	105	117	yes	
283813081292601	149	Surf well at W. Regional	USGS	SAS	well	120.96	--	60	yes	c
283816081225501	150	Lake Charity well	USGS	UF	well	73.38	325	374	yes	
283818081291202	151	West Regional UF obs well	USGS	UF	well	128.13	116	419	no	p
283819081292601	152	Orange Co. West Regional No. 1	USGS	LF	well	125	1,032	1,450	yes	
283828081333201	153	OR0424	SJRWMD	SAS	well	72	20	22	yes	
283914081331702	154	OR0089	SJRWMD	SAS	well	66	7	17	yes	
283915081352001	155	OR0428	SJRWMD	SAS	well	73	43	45	yes	
283959081303301	156	OR0610	USGS	UF	well	140	--	636	no	p
284051081380701	157	OR0434	SJRWMD	SAS	well	72	7	12	yes	
284056081303801	158	OR0657	SJRWMD	UF	well	130	230	235	yes	
284120081331701	159	21S28E06	USGS	UF	well	123	192	565	yes	
284230081345301	160	OR0106 UF well	USGS	UF	well	146.25	100	395	yes	p
284230081345302	161	OR0107 surf well	USGS	SAS	well	146	40	40	yes	p
284238081275803	162	OR-0548	USGS	UF	well	67.45	38	155	yes	p
284330081360501	163	World Foliage Resources Inc.	USGS	UF	well	83	127	403	yes	
284340081305101	164	Owens deep	USGS	UF	well	91		150	yes	
284407081321601	165	Apopka NW No.1 at Apopka	USGS	LF	well	130	859	1,303	yes	
284429081272001	166	OR0035	USGS	UF	well	22	--	--	yes	
284441081375901	167	OR0608	SJRWMD	UF	well	--	--	--	yes	
284453081284401	168	20S28E14	USGS	UF	well	27.93	--	40	yes	
284528081301101	169	Rock Springs surf well	USGS	ICU	well	72.28	42	60	yes	p

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284529081301001	170	Rock Springs UF well	USGS	UF	well	71.90	143	365	yes	p
284541081265201	171	20S29E07	USGS	UF	well	27	--	95	yes	
284604081330301	172	OR0717 (Haas Road surf well)	USGS	SAS	well	135	54	75	yes	p
284612081303401	173	Sulphur Springs Pool	USGS	UF	spring	28	--	--	yes	
284634081262001	174	OR0650	USGS	SAS	well	34.03	5	15	no	c
284634081262002	175	OR0651	USGS	ICU	well	33.84	63	73	no	c
284634081262003	176	OR0652	SJRWMD	UF	well	33.69	450	506	yes	c
284634081262004	177	OR-0662 Rock Springs	USGS	UF	well	34.07	150	180	yes	c
284635081280601	178	84612801	USGS	UF	well	28	--	96	yes	
284636081261801	179	OR0060	SJRWMD	UF	well	33	75	120	yes	

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems

[USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; °C, degrees Celsius; μS/cm, microsiemens per centimeter; mg/L, milligrams per liter; CaCO₃, calcium carbonate; SO₄, sulfate; --, no data. Site number refers to figure 9]

Site identifier	Site number	Site name	Collecting agency	Date of sample	Altitude (feet above NGVD 29)	Depth of well (feet below land surface)	Casing length (feet)	Aquifer	Depth to water (feet below land surface)	Water level (feet above NGVD 29)	Water temperature (°C)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
02234600	1	Wekiva Springs	USGS	5/22/2001	13	--	--	UF	--	--	23.6	327	<0.1
02234610	2	Rock Spring	USGS	5/22/2001	30	--	--	UF	--	--	23.8	257	.1
282051081183401	3	Boggy Creek UF well	USGS	7/28/1999	74.7	400	199	UF	29.29	45.61	24.6	420	< .1
282051081183402	4	Boggy Creek surf well	USGS	7/27/1999	74.7	10	5	SAS	3.64	71.06	28.5	206	3.5
282127081053901	5	Cocoa 44 near Bithlo	USGS	8/26/1999	--	418	296	UF	--	--	24.8	954	--
282145081053801	7	Cocoa 43 near Bithlo	USGS	4/28/1999	--	420	320	UF	--	30.94	25.5	1,340	--
282201081353703	8	Tree Farm well 14-4	USGS	9/17/1991	--	42	--	SAS	--	--	24.0	90	--
282202081384602	10	Lake Oliver surf well	USGS	3/6/2001	117	38	33	SAS	10.39	106.7	23.9	233	< .1
282208081053801	11	Cocoa 42 near Bithlo	USGS	4/28/1999	--	420	320	UF	--	29.11	24.5	853	--
282219081242501	13	Well at 441 & 417 near Kissimmee	USGS	3/2/2000	86	--	--	UF	46.38	39.62	24.1	460	< .1
282238081053801	14	Cocoa 41 near Bithlo	USGS	8/24/1999	--	420	320	UF	--	--	24.8	769	--
282241081112801	15	Moss Park UF well	USGS	8/10/1999	68.69	480	240	UF	27.33	41.36	24.5	670	< .1
282241081112802	16	Moss Park surf well	USGS	8/10/1999	69.05	29	26	SAS	9.4	59.65	24.5	220	< .1
282249081365601	17	RIBs 2 shallow well	USGS	6/9/1999	124.72	35	32	SAS	27.19	97.53	25.3	202	--
282250081053801	18	Cocoa 40 near Bithlo	USGS	4/28/1999	--	440	310	UF	--	21.26	25.0	915	--
282300081092401	19	Cocoa 25 near Bithlo	USGS	4/26/1999	--	600	300	UF	--	25.93	25.5	589	--
282304081053901	20	Cocoa 39 near Bithlo	USGS	4/28/1999	--	422	310	UF	--	--	25.0	1,240	--
282315081053801	21	Cocoa 38 near Bithlo	USGS	4/28/1999	--	426	320	UF	--	--	25.0	1,190	--
282315081093601	22	Cocoa 24 near Bithlo	USGS	4/26/1999	--	600	310	UF	--	--	29.8	598	--
282331081093801	23	Cocoa 23 near Bithlo	USGS	4/26/1999	--	600	300	UF	--	26.23	26.0	783	--
282331081370801	24	Hartzog Road UF well	USGS	7/12/1999	109.34	117	92	UF	10.48	98.86	25.4	629	< .1
282338081010201	26	OR0669 (Cocoa 13T)	SJRWMD	6/9/1998	--	315	295	UF	--	--	27.0	681	--
282341081040101	27	Cocoa A	USGS	8/24/1999	75	516	301	UF	--	34.18	23.3	672	--
282344081054201	28	Cocoa 11	USGS	8/24/1999	75	580	323	UF	--	--	24.5	1,600	--
282348080564301	29	ORO715 (Palmetto surf)	USGS	8/25/1999	40	30	20	SAS	5.1	34.9	24.6	487	< .1
282348080564701	30	Palmetto well	USGS	7/26/1999	40.62	390	244	UF	7.1	33.52	23.8	1,420	< .1
282352081224401	31	S. Orange Park surf well	USGS	11/30/1999	83	29	19	SAS	7.04	75.96	25.0	108	1.5
282356081091901	33	Cocoa 22 well	USGS	4/27/1999	--	602	--	UF	--	22.03	25.5	598	--
282358081371708	34	Basin 50 35 ft. well RCID RIBs	USGS	3/10/1992	140	35	33	SAS	--	--	--	582	--

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems

Site identifier	Site number	pH (standard units)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Chloride (mg/L)	Sulfate (mg/L as SO ₄)	Fluoride (mg/L)	Bromide (mg/L)	Silica (mg/L)	Total dissolved solids (mg/L)
02234600	1	8.3	125	152	40	11	9.0	1.5	14	18	.16	.05	9.8	183
02234610	2	8.2	96	117	32	9.1	4.9	1.3	7.8	17	.15	< .05	9.7	146
282051081183401	3	7.7	196	239	59	6.6	21	1.7	22	.40	.18	.08	20	243
282051081183402	4	4.3	1.0	1.0	1.2	6.7	18	.05	31	28	< .10	.20	4.3	96
282127081053901	5	7.8	264	321	110	12	75	2.6	120	55	.22	.40	22	557
282145081053801	7	7.5	252	307	130	19	120	4.1	220	110	.25	--	24	780
282201081353703	8	--	--	--	--	--	--	--	20	--	--	--	--	23
282202081384602	10	6.1	7.0	9.0	13	8.9	1.9	14	8.1	61	< .10	.29	5.7	138
282208081053801	11	7.6	277	337	110	9.5	56	1.8	82	47	.24	--	26	500
282219081242501	13	7.5	226	275	76	5.7	14	1.4	14	< .20	.13	< .05	23	255
282238081053801	14	7.7	201	245	67	22	56	1.9	100	37	.57	.30	33	439
282241081112801	15	7.4	259	315	96	9.5	32	1.8	38	46	.20	.10	22	411
282241081112802	16	5.9	41	50	10	1.8	21	.60	38	< .20	< .10	.08	10	105
282249081365601	17	6.8	13	16	17	5.3	2.1	11	8.7	35	< .10	< .05	8.1	120
282250081053801	18	7.7	196	239	79	23	67	2.4	140	65	.59	--	33	529
282300081092401	19	7.5	236	287	91	8.8	24	1.8	34	23	.17	--	22	347
282304081053901	20	7.6	216	263	110	19	100	3.5	210	100	.28	--	24	698
282315081053801	21	7.7	213	259	110	19	96	3.5	190	99	.32	--	22	670
282315081093601	22	7.5	241	293	91	9.5	24	1.9	34	25	.16	--	22	353
282331081093801	23	7.4	227	276	110	14	33	2.2	52	110	.16	--	22	481
282331081370801	24	7.7	141	172	63	6.3	53	5.7	90	41	< .10	.10	6.2	346
282338081010201	26	--	465	566	270	61	65	5.6	135	23	1.5	--	25	394
282341081040101	27	7.6	308	375	110	6.1	34	1.2	39	2.9	.30	.10	27	407
282344081054201	28	7.6	203	247	140	25	160	4.9	300	180	.20	1.0	20	957
282348080564301	29	7.1	253	308	93	1.4	11	1.1	9.2	2.8	< .10	< .05	9.6	277
282348080564701	30	7.7	170	207	85	26	130	3.0	330	40	.84	1.1	27	740
282352081224401	31	5.8	20	24	3.1	1.9	14	.50	20	2.2	< .10	.08	14	70
282356081091901	33	7.5	231	281	85	9.0	26	1.8	35	31	.16	--	22	349
282358081371708	34	7.1	75	91	27	6.1	62	16	100	21	< .10	--	.7	278

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; °C, degrees Celsius; μS/cm, microsiemens per centimeter; mg/L, milligrams per liter; CaCO₃, calcium carbonate; SO₄, sulfate; --, no data. Site number refers to figure 9]

Site identifier	Site number	Site name	Collecting agency	Date of sample	Altitude (feet above NGVD 29)	Depth of well (feet below land surface)	Casing length (feet)	Aquifer	Depth to water (feet below land surface)	Water level (feet above NGVD 29)	Water temperature (°C)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
282358081372201	35	Well 27 Basin 50	USGS	3/24/1992	128	35	33	SAS	--	--	--	371	--
282400081150201	36	OR0230	SJRWMD	10/29/1998	--	135	100	UF	--	--	24.0	804	--
282404081050501	37	Cocoa 12B near Bithlo	USGS	9/7/1999	74	519	--	UF	--	--	23.9	989	--
282405081053002	38	Cocoa 4A1 near Bithlo	USGS	4/29/1999	73	527	266	UF	--	25.58	25.4	1,650	--
282406081093601	39	Cocoa 21	USGS	4/26/1999	--	603	--	UF	--	23.3	25.5	966	--
282406081093602	40	Cocoa R well	USGS	8/23/1999	--	1,200	--	LF	--	31.82	26.0	2,030	--
282411081211301	41	Well near Taft	USGS	4/6/1999	85	1,424	1,098	LF	44.4	40.63	27.6	413	< .1
282412081044701	42	Cocoa 12A near Bithlo	USGS	4/30/1998	75	600	275	UF	--	--	25.5	1,620	--
282416081054101	43	Cocoa 4 near Bithlo	USGS	8/23/1999	72	524	251	UF	--	--	25.7	1,260	--
282424081093601	44	Cocoa 20	USGS	4/27/1999	--	602	--	UF	--	18.93	25.5	906	--
282451081054501	46	Cocoa 5	USGS	4/28/1999	70	516	251	UF	--	--	25.0	940	--
282510081054501	47	Cocoa 1	USGS	4/29/1999	70	710	316	UF	--	--	24.5	857	--
282512081153001	49	OR0636	SJRWMD	8/23/1996	--	2,440	1,087	LF	--	--	28.0	15,190	--
282529081073201	51	Cocoa 7A near Bithlo	USGS	4/29/1998	66	710	237	UF	--	--	24.5	1,120	--
282530081054201	52	Cocoa 7	USGS	8/24/1999	72	490	285	UF	--	--	24.2	1,260	--
282530081065601	53	OR0614	USGS	4/7/1999	66.8	1,250	1,170	LF	32.53	33.27	28.8	2,210	< .1
282530081065603	55	ORO613 well (Cocoa S)	USGS	8/23/1999	67	1,500	1,428	LF	--	23.42	28.5	21,300	--
282530081085401	56	Cocoa 15 near Bithlo	USGS	8/23/1999	66	702	262	UF	--	--		1,080	--
282530081091701	57	Cocoa 16 near Bithlo	USGS	4/27/1999	68	600	255	UF	--	--	25.0	939	--
282530081094001	58	Cocoa 17 near Bithlo	USGS	8/23/1999	70	600	252	UF	--	--	24.6	628	--
282531081075602	61	Cocoa 13R	USGS	6/30/1999	--	1,200	--	LF	--	--	24.3	950	--
282531081082201	62	Cocoa 14 near Bithlo	USGS	8/23/1999	65	761	252	UF	--	--	25.0	1,220	--
282531081095701	63	Cocoa D	USGS	8/25/1999	76	300	226	UF	--	33.8	23.7	620	--
282533081082202	64	Cocoa C (Zone 1)	USGS	8/24/1999	64	1,360	1,350	LF	--	29.03	24.0	11,200	--
282548081054201	69	Cocoa 3 near Bithlo	USGS	8/26/1999	72	496	266	UF	--	--	24.6	1,310	--
282556081094001	70	Cocoa 18	USGS	4/29/1999	71	600	--	UF	--	--	23.5	559	--
282612081054201	71	Cocoa 2 near Bithlo	USGS	8/31/1998	68	617	271	UF	--	--	25.5	2,050	--
282623081153801	72	Cocoa P	USGS	8/18/1999	91.48	439	245	UF	52.52	40.86	24.7	455	< .1
282624081090401	73	Cocoa 19 near Bithlo	USGS	4/27/1999	71	600	--	UF	--	26.18	25.0	833	--
282631081323301	74	Tibet-Butler surf well	USGS	12/2/1999	104	24	14	SAS	5.38	98.62	24.4	224	.6

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	pH (standard units)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Chloride (mg/L)	Sulfate (mg/L as SO ₄)	Fluoride (mg/L)	Bromide (mg/L)	Silica (mg/L)	Total dissolved solids (mg/L)
282358081372201	35	4.3	<1.0	<1.0	22	14	5.9	11	14	57	.10	--	8.5	199
282400081150201	36	--	130	158	76	25	74	2.8	156	75	.51	--	10	471
282404081050501	37	7.8	292	355	130	11	66	2.3	110	58	.17	.40	22	579
282405081053002	38	7.5	200	243	130	25	150	4.5	300	180	.20	--	19	938
282406081093601	39	7.5	205	249	140	19	51	2.3	83	180	.16	--	21	621
282406081093602	40	7.5	40	49	170	58	200	7.3	370	540	.16	1.2	24	1,400
282411081211301	41	7.7	119	145	53	12	9.1	1.3	15	63	.20	< .05	14	229
282412081044701	42	7.6	214	260	140	30	160	4.9	290	180	.25	--	21	960
282416081054101	43	7.6	209	254	120	20	120	3.7	210	140	.21	.70	20	766
282424081093601	44	7.5	195	237	120	17	44	2.0	71	170	.16	--	20	562
282451081054501	46	7.7	272	331	120	12	63	2.1	100	60	.27	--	25	548
282510081054501	47	7.5	234	285	110	12	51	2.1	84	88	.17	--	22	511
282512081153001	49	--	138	168	--	--	--	--	3,790	3,710	3.6	--	--	9,485
282529081073201	51	7.5	266	324	140	14	83	2.5	150	110	.16	--	24	686
282530081054201	52	7.7	288	350	140	11	110	2.5	190	78	.19	.60	24	730
282530081065601	53	7.4	153	186	180	48	200	7.5	390	440	.16	1.0	17	1,390
282530081065603	55	7.6	108	131	470	427	3,900	140	6,800	1,600	.26	22	12	13,500
282530081085401	56	7.7	196	239	110	19	95	3.0	160	130	.17	.50	19	656
282530081091701	57	7.6	185	225	98	16	65	2.4	120	100	.17	--	20	534
282530081094001	58	7.6	176	214	77	13	32	1.8	50	68	.19	.20	19	368
282531081075602	61	7.7	264	321	120	10	73	1.9	110	78	.14	--	25	577
282531081082201	62	7.5	213	259	130	18	100	3.2	170	150	.15	.60	21	723
282531081095701	63	7.8	329	400	110	3.4	21	.80	11	.20	.20	< .05	31	376
282533081082202	64	7.6	50	61	370	234	1,800	62	3,200	1,200	.20	10	1.3	6,920
282548081054201	69	7.8	247	301	150	15	120	3.0	220	120	.17	.70	22	804
282556081094001	70	7.7	283	344	100	4.2	17	.80	15	2.9	.13	--	28	339
282612081054201	71	7.5	207	252	180	30	210	5.6	400	250	.21	--	21	1,240
282623081153801	72	7.6	220	268	69	9.0	15	1.5	17	2.0	.46	.05	28	273
282624081090401	73	7.5	195	237	110	16	44	2.0	73	130	.16	--	21	515
282631081323301	74	3.9	1.0	1.0	4.8	7.1	7.9	2.3	6.3	73	< .10	< .05	11	107

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; °C, degrees Celsius; μS/cm, microsiemens per centimeter; mg/L, milligrams per liter; CaCO₃, calcium carbonate; SO₄, sulfate; --, no data. Site number refers to figure 9]

Site identifier	Site number	Site name	Collecting agency	Date of sample	Altitude (feet above NGVD 29)	Depth of well (feet below land surface)	Casing length (feet)	Aquifer	Depth to water (feet below land surface)	Water level (feet above NGVD 29)	Water temperature (°C)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
282632081054501	75	Cocoa 8 near Bithlo	USGS	8/25/1999	67	640	255	UF	--	--	25.2	2,410	--
282640086565901	180	Tosohatchee UF well	USGS	3/13/2001	22	203	--	UF	--	--	23.1	3,040	< .1
282650081054201	76	Cocoa 9 near Bithlo	USGS	8/23/1999	68	525	230	UF	--	--	24.3	1,160	--
282657081230401	77	Sky Lake near Pine Castle	USGS	4/12/1999	99	1,390	960	LF	--	--	26.5	292	< .1
282716081054501	78	Cocoa 10 near Bithlo	USGS	8/23/1999	63	506	229	UF	--	--	24.2	875	--
282722081371701	80	Conserv II well SP5	USGS	6/23/1999	143.03	53	48	SAS	44.8	98.23	26.2	410	6.7
282738081341401	81	Lake Sawyer UF well	USGS	7/13/1999	116.04	178	103	UF	37.62	75.42	23.9	251	< .1
282739081054501	82	Cocoa F	USGS	7/22/1999	67	375	200	UF	--	--	24.7	1,250	< .1
282739081054502	83	ORO714 (Cocoa F)	USGS	8/25/1999	66	30	15	SAS	1.7	64.3	24.9	561	.7
282739081054503	84	ORO727 (Cocoa F)	USGS	12/16/1999	66.67	30	20	SAS	2.7	68.3	24.8	575	< .1
282745081283501	85	No. 36 SW No. 3	USGS	3/28/2000	145	1,460	1,000	LF	--	--	24.1	221	--
282838080572401	87	Turkey Camp UF well	USGS	7/19/1999	22	120	80	UF	-9.9	31.9	23.6	2,640	< .1
282838080572402	88	OR0713 (Turkey Camp surf)	USGS	2/17/2000	22	17	8	SAS	1.75	20.25	21.2	1,150	< .1
282838080572403	89	ORO726 (Turkey Camp surf)	USGS	2/17/2000	21.65	17	7	SAS	2.1	--	20.5	1,140	< .1
282847081013701	90	Cocoa H	USGS	7/29/1999	60	495	252	UF	26.9	33.1	24.4	828	< .1
282848080544501	92	Duck Pond UF well	USGS	8/4/1999	14.6	335	152	UF	-15.8	30.4	24.5	4,080	< .1
282856080544101	93	Duck Pond surf well	USGS	8/4/1999	14	9	4	SAS	--	--	25.7	3,860	< .1
282912081181201	95	OR0722 in Pine Castle	USGS	2/15/2000	95	29	19	SAS	8.19	86.81	23.9	161	< .1
282924081290401	97	Orange Co. Hidden Springs	USGS	4/29/1999	152	492	185	UF	--	--	23.9	316	< .1
282931081285901	98	Orange Co. Hidden Springs	USGS	4/29/1999	145	1,401	1,250	LF	--	--	27.1	265	< .1
283003081283801	100	Turkey Lake surf well in Orlando	USGS	2/16/2000	125	54	44	SAS	25.2	99.8	25.1	126	.7
283006081274101	102	33 Kirkman No. 3	USGS	3/28/2000	94	1,400	983	LF	--	--	25.5	258	--
283007081122801	104	OR0668	SJRWMD	7/9/1998	--	1,395	602	UF	--	--	25.0	46,000	--
283011081152301	105	Orange Co. East Regional well	USGS	4/29/1999	84	560	210	UF	--	--	25.0	307	< .1
283011081152401	106	Orange Co. East Regional well	USGS	5/27/1999	80	1,385	1,100	LF	--	38	25.5	286	< .1
283017081391301	107	Davenport Rd 4" well	USGS	9/21/1999	108	--	--	UF	--	77.51	24.1	202	< .1
283033081290301	108	Turkey Lake surf well	USGS	11/30/1999	110	29	19	SAS	7.73	102.27	24.0	201	< .1
283048081194801	109	No. 24 Conway No. 3	USGS	3/28/2000	110	1,350	1,060	LF	--	--	24.9	332	--
283126081064501	110	OR0617 near Bithlo	USGS	4/14/1999	58.72	550	210	UF	27.04	31.68	25.2	461	< .1
283126081064502	111	OR0618 near Bithlo	USGS	4/14/1999	58.82	1,280	1,140	LF	28.98	29.84	28.1	5,000	< .1

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	pH (standard units)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Chloride (mg/L)	Sulfate (mg/L as SO ₄)	Fluoride (mg/L)	Bromide (mg/L)	Silica (mg/L)	Total dissolved solids (mg/L)
282632081054501	75	7.8	235	286	180	38	270	7.8	510	300	.19	1.6	20	1,480
282640086565901	180	7.4	150	183	120	49	410	9.6	750	150	.59	17	16	1,600
282650081054201	76	7.6	262	319	130	13	100	2.7	170	92	.27	.50	23	690
282657081230401	77	7.7	121	147	39	8.1	7.3	1.0	11	15	.19	< .05	12	159
282716081054501	78	7.7	274	333	110	8.6	65	1.7	96	44	.43	.30	29	520
282722081371701	80	4.2	1.0	1.0	27	15	2.4	26	7.6	150	.20	< .05	6.8	224
282738081341401	81	7.8	127	155	35	7.3	6.7	1.5	5.9	2.0	.21	< .05	18	150
282739081054501	82	7.5	189	230	110	25	120	4.2	200	160	.20	.70	21	752
282739081054502	83	7.2	291	354	94	3.9	21	.80	12	1.2	.12	.06	11	316
282739081054503	84	6.9	289	352	110	2.5	9.1	.40	8.0	< .20	.12	.05	11	358
282745081283501	85	7.9	82	100	27	7.4	4.7	.60	8.1	16	.17	< .05	9.3	123
282838080572401	87	7.5	166	202	120	50	360	11	640	180	.45	2.4	19	1,490
282838080572402	88	7.3	289	352	120	6.6	98	.90	180	27	.27	.60	17	629
282838080572403	89	7.0	239	291	130	5.1	95	.60	180	54	.19	.60	12	621
282847081013701	90	7.6	196	239	68	29	59	2.5	1,10	81	.60	.30	26	495
282848080544501	92	7.7	155	189	130	67	610	18	1,100	250	.34	3.6	15	2,290
282856080544101	93	7.3	374	455	170	60	540	6.6	1,100	96	.26	3.2	28	2,230
282912081181201	95	5.2	5.0	6.0	6.1	4.7	8.4	5.7	14	39	< .10	< .05	4.6	90
282924081290401	97	7.6	127	155	43	6.8	6.4	1.9	13	14	.13	< .05	9.5	168
282931081285901	98	7.8	110	134	33	8.4	5.1	.80	8.5	14	.15	< .05	11	137
283003081283801	100	6.4	38	46	5.6	.70	18	1.0	7.0	9.4	< .10	< .05	11	76
283006081274101	102	7.8	109	133	35	8.1	5.2	.90	8.3	9.7	.17	< .05	11	144
283007081122801	104	--	118	144	678	1,053	9,294	345	22,290	2,811	.11	--	3.9	28,790
283011081152301	105	7.7	127	155	40	8.2	7.9	.90	11	13	.18	< .05	12	167
283011081152401	106	7.9	125	152	40	8.3	8.2	.90	11	11	.19	< .05	12	150
283017081391301	107	7.9	--	--	--	--	--	--	--	--	--	--	--	94
283033081290301	108	5.9	23	28	14	7.0	11	3.5	19	37	< .10	.10	5.4	112
283048081194801	109	7.6	150	183	45	9.3	8.4	1.1	11	5.5	.14	< .05	11	182
283126081064501	110	7.7	152	185	53	12	21	1.7	35	32	.22	.10	17	249
283126081064502	111	7.3	130	158	210	100	640	23	1,200	590	.14	3.7	14	2,850

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; °C, degrees Celsius; μS/cm, microsiemens per centimeter; mg/L, milligrams per liter; CaCO₃, calcium carbonate; SO₄, sulfate; --, no data. Site number refers to figure 9]

Site identifier	Site number	Site name	Collecting agency	Date of sample	Altitude (feet above NGVD 29)	Depth of well (feet below land surface)	Casing length (feet)	Aquifer	Depth to water (feet below land surface)	Water level (feet above NGVD 29)	Water temperature (°C)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
283136081064501	112	OR0648	SJRWMD	11/21/1996	--	70	10	UF	--	--	23.5	750	--
283136081064502	113	OR0649	SJRWMD	11/20/1996	--	20	10	SAS	--	--	23.5	53	--
283203080582601	116	OR0519	SJRWMD	2/10/1992	--	--	--	UF	--	--	--	--	--
283210081180401	117	ORO718 (Englewood Park)	USGS	10/26/1999	95	35	25	SAS	4.36	90.64	24.6	129	< .1
283214080583501	118	Dot E Highway 50	USGS	6/30/1999	14.16	200	--	UF	-11.4	25.56	23.1	2,460	< .1
283216080593701	119	OR0109	SJRWMD	2/10/1992	--	--	--	UF	--	--	--	--	--
283228081213501	120	ORO721 (Langford Park)	USGS	10/26/1999	75	25	15	SAS	3.8	71.2	23.4	193	< .1
283236081290901	121	Oak Meadows No. 4	USGS	4/3/2000	111	1,260	707	LF	--	--	24.6	217	--
283249081053201	122	Bithlo 1 well at Bithlo	USGS	8/16/1999	63.58	492	151	UF	30.5	33.18	24.0	570	< .1
283249081053203	124	Bithlo 3 well at Bithlo	USGS	8/16/1999	63.5	15	12	SAS	3.42	60.08	24.8	166	.3
283251081283501	125	OR0716 (Orange-47 surf well)	USGS	8/26/1999	80	45	35	SAS	37.94	42.06	25.9	334	.5
283253081283401	126	OR-47 at Orlo Vista	USGS	7/7/1999	84.84	350	328	UF	28.23	56.61	24.5	224	< .1
283307081300801	127	OR0101	SJRWMD	2/6/1990	--	450	118	UF	--	--	22.9	125	--
283325081374001	128	22S27E20	USGS	6/29/1999	123	370	148	UF	--	--	23.9	368	< .1
283327081223201	129	Well No. 7	USGS	3/28/2000	--	1,420	943	LF	--	--	--	278	--
283338081010201	132	OR0675	SJRWMD	8/3/1998	--	840	620	UF	--	--	27.5	2,034	--
283338081204101	133	OR0634	SJRWMD	9/4/1996	--	630	524	UF	--	--	--	--	--
283345081225701	135	OR0720 (Ivanhoe Park surf well)	USGS	10/28/1999	80	32	22	SAS	3.73	76.27	25.2	104	< .1
283353081185801	136	22S30E21	USGS	3/28/2000	95	1,370	1,080	LF	--	--	24.3	282	--
283353081222401	137	No. 2	USGS	4/12/1999	81.31	1,445	945	LF	41.1	40.3	25.4	260	< .1
283355081194501	138	OR0667	SJRWMD	4/15/1998	--	251	152	UF	--	--	--	--	--
283357081272201	139	22S29E19	USGS	3/28/2000	106	1,410	1,000	LF	--	--	24.9	222	--
283402080584101	140	OR0524	SJRWMD	9/17/1998	--	--	--	UF	--	--	--	--	--
283517081121501	141	CFRP West well near Union Park	USGS	6/24/1999	75	15	10	SAS	7.12	67.88	26.4	53	< .1
283524081344701	142	OR0443	SJRWMD	4/4/1990	--	12	7	SAS	--	--	20.0	552	--
283548081181401	143	22S30E10	USGS	4/3/2000	91	1,350	700	LF	--	--	24.9	267	--
283555081245101	144	ORO719 (Fairview Park)	USGS	10/28/1999	93	31	21	SAS	3.45	89.55	25.1	50	< .1
283555081300801	145	Ocoee Forest Oaks No. 3	USGS	4/3/2000	130	1,450	1,190	LF	--	--	24.8	207	--
283623081230501	146	22S29E02	USGS	4/3/2000	98	1,280	1,160	LF	--	--	24.3	248	--
283646081195401	147	Bradner well at W.P.	USGS	9/1/1999	91	150	120	UF	48.35	42.65	24.2	292	< .1

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	pH (standard units)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Chloride (mg/L)	Sulfate (mg/L as SO ₄)	Fluoride (mg/L)	Bromide (mg/L)	Silica (mg/L)	Total dissolved solids (mg/L)
283136081064501	112	7.2	307	374	110	3.4	15	1.2	17	14	.16	--	10	437
283136081064502	113	5.0	6.0	7.0	1.0	.80	5.0	.30	10	4.0	< .10	--	2.0	--
283203080582601	116	--	--	--	--	--	--	--	444	150	--	--	--	--
283210081180401	117	5.7	17	21	11	2.2	7.0	1.3	18	1.5	.41	< .05	10	63
283214080583501	118	7.4	188	229	130	44	310	9.8	560	230	.27	1.8	18	1,420
283216080593701	119	--	--	--	--	--	--	--	196	133	--	--	--	--
283228081213501	120	5.5	7.2	9.0	7.4	5.3	16	2.0	36	21	< .10	.05	5.1	98
283236081290901	121	7.9	98	119	26	8.8	4.3	1.1	7.2	4.0	.14	< .05	9.7	120
283249081053201	122	7.6	160	195	59	13	37	2.0	56	44	.31	.20	17	320
283249081053203	124	6.4	51	62	20	1.2	6.9	.20	12	6.4	1.0	.05	3.5	88
283251081283501	125	5.9	46	56	40	7.2	6.5	2.7	8.4	60	.10	.10	4.9	189
283253081283401	126	8.3	104	127	24	9.5	3.8	.60	6.1	.40	< .10	< .05	1.5	109
283307081300801	127	5.1	6	7.0	6.0	4.6	4.0	4.9	9.0	25	.10	--	11	45
283325081374001	128	7.8	137	167	47	11	8.5	1.5	16	28	.16	.06	13	204
283327081223201	129	7.9	118	144	35	8.2	8.2	1.0	12	5.5	.31	.05	10	151
283338081010201	132	--	147	179	161	51	238	5.1	550	157	.46	--	8.3	1,242
283338081204101	133	--	--	--	--	--	--	--	10	18	--	--	--	--
283345081225701	135	5.6	7.3	9.0	6.1	1.5	8.8	.90	22	.80	< .10	< .05	10	59
283353081185801	136	7.9	123	150	38	8.3	6.8	.80	9.7	6.6	.13	< .05	9.5	154
283353081222401	137	7.8	117	142	34	8.1	6.2	.90	9.4	5.0	.14	< .05	11	130
283355081194501	138	--	--	--	--	--	--	--	13	9.6	--	--	--	--
283357081272201	139	8.0	100	122	29	7.6	4.5	.70	7.2	3.8	.10	< .05	9.8	123
283402080584101	140	--	--	--	--	--	--	--	214	53	--	--	--	--
283517081121501	141	5.7	9.7	12	6.7	.20	2.4	.50	5.7	3.2	< .10	< .05	3.4	26
283524081344701	142	7.2	--	--	62	13	38	3.0	34		--	--	--	313
283548081181401	143	7.9	120	146	37	7.8	6.5	.90	9.5	5.4	.15	.06	10	149
283555081245101	144	5.4	7.1	9.0	.90	.40	6.8	.70	5.9	4.9	< .10	.05	10	34
283555081300801	145	8.1	98	119	28	6.8	3.8	.70	6.0	1.7	< .10	< .05	11	117
283623081230501	146	8.0	106	129	33	7.9	5.9	.90	9.7	8.2	.13	.10	9.0	138
283646081195401	147	7.6	119	145	38	6.8	6.9	1.0	11	5.5	.13	< .05	8.2	146

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[USGS, U.S. Geological Survey; SJRWMD, St. Johns River Water Management District; LF, Lower Floridan aquifer; SAS, surficial aquifer system; UF, Upper Floridan aquifer; °C, degrees Celsius; μS/cm, microsiemens per centimeter; mg/L, milligrams per liter; CaCO₃, calcium carbonate; SO₄, sulfate; --, no data. Site number refers to figure 9]

Site identifier	Site number	Site name	Collecting agency	Date of sample	Altitude (feet above NGVD 29)	Depth of well (feet below land surface)	Casing length (feet)	Aquifer	Depth to water (feet below land surface)	Water level (feet above NGVD 29)	Water temperature (°C)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
283809081324801	148	Magnolia Park 8 in. deep	USGS	9/20/1999	96	117	105	UF	--	--	22.9	365	--
283813081292601	149	Surf well at W. Regional	USGS	2/16/2000	123	60	--	SAS	18.6	104.4	25.0	151	.4
283816081225501	150	Lake Charity well	USGS	8/12/1999	73.38	374	325	UF	30.48	42.9	24.3	319	< .1
283819081292601	152	Orange Co. West Regional No. 1	USGS	5/4/1999	125	1,448	1,033	LF	--	--	24.5	240	< .1
283828081333201	153	OR0424	SJRWMD	6/25/1990	--	22	20	SAS	--	--	24.1	963	--
283914081331702	154	OR0089	SJRWMD	6/7/1993	--	17	7	SAS	--	--	24.2	348	--
283915081352001	155	OR0428	SJRWMD	6/25/1990	--	45	43	SAS	--	--	24.4	684	--
284051081380701	157	OR0434	SJRWMD	6/10/1993	--	12	7	SAS	--	--	22.2	772	--
284056081303801	158	OR0657	SJRWMD	8/20/1997	--	235	230	UF	--	--	--	--	--
284120081331701	159	21S28E06	USGS	9/28/1999	123	565	192	UF	--	--	23.3	580	--
284230081345301	160	OR0106 UF well	USGS	8/11/1999	146.25	395	100	UF	95.23	51.02	25.6	256	.2
284230081345302	161	OR0107 surf well	USGS	6/2/1999	146	40	20	SAS	23.59	122.41	24.2	101	1.3
284238081275803	162	OR-0548	USGS	8/23/1999	67.45	155	100	UF	47.25	--	--	276	--
284330081360501	163	World Foliage Resources Inc.	USGS	9/28/1999	83	403	127	UF	--	--	24.0	242	--
284340081305101	164	Owens deep	USGS	2/4/1997	91	150	--	UF	--	--	24.1	254	--
284340081305101	164	Owens deep	USGS	8/16/1999	91	150	--	UF	--	44.52	24.2	255	.1
284407081321601	165	Apopka NW No.1 at Apopka	USGS	3/30/2000	130	1,300	859	LF	--	--	25.6	439	--
284429081272001	166	OR0035	USGS	5/16/1995	22	--	--	UF	--	28.7	22.4	414	--
284441081375901	167	OR0608	SJRWMD	3/24/1994	--	--	--	UF	--	--	--	--	--
284453081284401	168	20S28E14	USGS	5/16/1995	28	40	--	UF	--	--	22.3	376	--
284528081301101	169	Rock Springs surf well	USGS	7/21/1999	71.9	60	42	ICU	43.88	28.02	25.7	290	--
284529081301001	170	Rock Springs UF well	USGS	7/21/1999	71.9	365	143	UF	38	34	25.3	216	< .1
284541081265201	171	20S29E07	USGS	1/15/1997	27	95	--	UF	--	--	23.0	1,180	--
284604081330301	172	OR0717 (Haas Road surf well)	USGS	5/16/2000	135	74	54	SAS	--	--	24.7	209	--
284612081303401	173	Sulphur Springs Pool	USGS	1/14/1997	28	--	--	--	--	--	24.7	437	--
284612081303401	173	Sulphur Springs Pool	USGS	8/16/1999	28	--	--	--	--	--	24.8	446	< .1
284634081262003	176	OR0652	SJRWMD	8/26/1998	--	506	450	UF	--	--	25.4	2,832	--
284634081262004	177	OR-0662 Rock Springs	USGS	12/2/1998	34	180	150	UF	--	29.9	24.8	1,110	--
284635081280601	178	84612801	USGS	5/16/1995	28	96	--	UF	--	33.9	24.1	617	--
284636081261801	179	OR0060	SJRWMD	1/10/1995	--	120	75	UF	--	--	23.7	1,207	--

Appendix 2. Site information, field measurements, and major ions concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	pH (standard units)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Chloride (mg/L)	Sulfate (mg/L as SO ₄)	Fluoride (mg/L)	Bromide (mg/L)	Silica (mg/L)	Total dissolved solids (mg/L)
283809081324801	148	7.6	--	--	--	--	--	--	--	--	--	--	--	196
283813081292601	149	9.9	47	57	24	.20	4.2	1.1	6.5	13	.16	< .05	12	102
283816081225501	150	7.7	118	144	43	6.0	9.3	2.8	18	17	.16	< .05	4.8	167
283819081292601	152	8.0	108	131	29	8.8	5.7	.80	7.1	7.8	.11	< .05	9.2	129
283828081333201	153	6.7	--	--	97	57	20	4.5	36	8.1	.85	--	--	570
283914081331702	154	6.3	--	--	44	10	7.1	11	5.0	27	.40	--	14	185
283915081352001	155	6.5	--	--	76	23	17	11	42	7.3	.38	--	--	395
284051081380701	157	6.6	--	--	110	29	14	13	23	7.7	.40	--	39	451
284056081303801	158	--	--	--	--	--	--	--	17	3.1	--	--	--	--
284120081331701	159	6.9	--	--	--	--	--	--	--	--	--	--	--	330
284230081345301	160	8.0	101	123	31	8.2	6.0	1.2	8.6	16	.21	< .05	11	141
284230081345302	161	5.3	3.9	5.0	4.1	2.4	5.1	2.9	5.3	21	< .10	.06	3.7	51
284238081275803	162	7.9	124	151	37	10	6.7	1.3	9.8	14	.17	< .05	10	159
284330081360501	163	7.7	--	--	--	--	--	--	--	--	--	--	--	119
284340081305101	164	8.0	110	134	31	12	5.0	.80	7.7	10	.20	--	12	145
284340081305101	164	7.9	--	--	--	--	--	--	--	--	--	--	--	127
284407081321601	165	7.8	110	134	56	17	6.0	1.0	8.8	100	.20	< .05	11	267
284429081272001	166	8.1	99	120	45	11	23	1.2	41	43	.30	--	11	236
284441081375901	167	--	--	--	--	--	--	--	11	10	--	--	--	--
284453081284401	168	--	--	--	--	--	--	--	6.7	79	--	--	--	203
284528081301101	169	8.0	122	148	36	12	5.1	.90	8.3	22	.15	< .05	9.2	163
284529081301001	170	8.1	91	111	26	8.6	4.9	.70	7.3	12	.14	< .05	10	119
284541081265201	171	7.7	99	120	78	25	110	3.0	220	150	.30	--	11	658
284604081330301	172	5.3	3.0	4.0	--	--	--	--	--	--	--	--	--	98
284612081303401	173	7.8	100	122	61	16	5.2	.80	7.7	110	.30	--	11	273
284612081303401	173	8.0	--	--	--	--	--	--	--	--	--	--	--	246
284634081262003	176	7.6	104	127	132	46	330	6.88	647	291	.24	--	5.4	1,741
284634081262004	177	8.1	69	84	84	22	110	4.0	200	180	.35	--	10	654
284635081280601	178	7.9	101	123	80	19	21	1.4	34	160	.10	--	12	390
284636081261801	179	7.3	106	129	84	26	106	2.8	203	181	.26	--	5.0	723

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems

[mg/L, milligrams per liter; N, nitrogen; P, phosphorus; µg/L, micrograms per liter; pCi/L, picoCuries per liter; --, no data. Site number refers to figure 9]

Site identifier	Site number	Nitrite plus nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ammonia plus organic nitrogen, dissolved (mg/L as N)	Ammonia plus organic nitrogen (mg/L as N)	Phosphorus, whole water (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Phosphate, dissolved (mg/L as P)	Total organic carbon (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)
02234600	1	0.98	<0.01	0.03	<0.20	--	0.11	0.11	0.10	2.0	<3.0	<2.0	9.0	1	30
02234610	2	1.3	<.01	<.01	<.20	--	.08	.08	.08	--	<3.0	<2.0	9.0	1	20
282051081183401	3	<.02	<.01	.30	.49	--	--	.06	.05	3.9	<3.0	2.2	10	<.50	27
282051081183402	4	<.02	<.01	.06	.49	--	--	<.02	<.01	11	628	2.7	23	<.50	53
282127081053901	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282145081053801	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282202081384602	10	4.6	<.01	.16	.35	--	--	<.02	<.01	--	--	<2.0	--	--	--
282208081053801	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282219081242501	13	<.02	<.01	.19	<.20	--	--	.13	.02	2.8	<3.0	<2.0	12	<.50	37
282238081053801	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282241081112801	15	.02	<.01	.80	<.20	--	--	.27	.24	11	<3.0	2.6	13	<.50	48
282241081112802	16	<.02	<.01	.70	.82	--	--	<.02	.02	18	297	<2.0	20	<.50	23
282249081365601	17	6.3	<.01	<.01	<.20	--	--	.05	.06	.40	5.5	<2.0	37	<.50	25
282250081053801	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282300081092401	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282304081053901	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282315081053801	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282315081093601	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282331081093801	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282331081370801	24	<.02	<.01	.10	<.20	--	--	.05	.04	1.2	<3.0	<2.0	28	<.50	120
282341081040101	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282344081054201	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282348080564301	29	<.02	<.01	.30	.43	--	--	.09	.09	6.1	13	<2.0	53	<.50	16
282348080564701	30	<.02	<.01	.80	.77	--	--	<.02	<.01	3.6	<3.0	2.1	26	<.50	35
282352081224401	31	<.02	<.01	.11	.31	--	--	<.02	<.01	3.2	32	<2.0	12	<.50	24
282356081091901	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282358081371708	34	3.4	.01	--	--	.89	.09	--	--	4.3	--	--	--	--	--

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems

Site identifier	Site number	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Iron, whole water (µg/L)	Iron, dissolved (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Strontium (µg/L)	Vanadium (µg/L)	Radon (pCi/L)
02234600	1	<.50	<1.0	<1.0	1,000	26	<2.0	1.0	3.9	<2.0	140	2.0	--
02234610	2	<.50	<1.0	<1.0	--	<2.0	<2.0	1.0	<1.0	<2.0	170	2.0	--
282051081183401	3	<.50	--	<1.0	--	92	<2.0	3.9	2.3	2.2	210	<1.0	1,022
282051081183402	4	<.50	--	<1.0	--	6,500	<2.0	<.50	5.0	<2.0	36	2.0	511
282127081053901	5	--	--	--	174	125	--	--	--	--	1,300	--	--
282145081053801	7	--	--	--	139	21	--	--	--	--	1,500	--	--
282202081384602	10	--	--	--	--	405	--	--	160	--	--	--	--
282208081053801	11	--	--	--	54	33	--	--	--	--	850	--	--
282219081242501	13	<.50	<1.0	<1.0	--	850	<2.0	4.7	13	<2.0	300	<1.0	175
282238081053801	14	--	--	--	63	16	--	--	--	--	720	--	--
282241081112801	15	<.50	--	<1.0	--	151	<2.0	3.5	12	6.2	550	<1.0	--
282241081112802	16	<.50	--	1.2	--	26,091	<2.0	1.9	160	2.1	27	3.0	434
282249081365601	17	<.50	--	<1.0	--	7.0	<2.0	<.50	36	<2.0	72	<1.0	--
282250081053801	18	--	--	--	70	57	--	--	--	--	1,300	--	--
282300081092401	19	--	--	--	286	46	--	--	--	--	640	--	--
282304081053901	20	--	--	--	24	9.0	--	--	--	--	1,700	--	--
282315081053801	21	--	--	--	140	26	--	--	--	--	2,000	--	--
282315081093601	22	--	--	--	228	46	--	--	--	--	670	--	--
282331081093801	23	--	--	--	36	19	--	--	--	--	1,100	--	--
282331081370801	24	<.50	--	<1.0	--	36	<2.0	2.3	13	2.2	90	<1.0	295
282341081040101	27	--	--	--	910	812	--	--	--	--	610	--	--
282344081054201	28	--	--	--	51	13	--	--	--	--	3,800	--	--
282348080564301	29	<.50	--	<1.0	--	317	<2.0	2.1	26	3.1	470	3.0	810
282348080564701	30	<.50	--	<1.0	--	71	<2.0	10	5.2	<2.0	1,200	<1.0	1,311
282352081224401	31	<.50	1.2	<1.0	--	2,100	<2.0	<.50	64	2.1	23	3.0	1,519
282356081091901	33	--	--	--	17	50	--	--	--	--	660	--	--
282358081371708	34	--	--	--	340	--	--	--	--	--	--	--	--

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[mg/L, milligrams per liter; N, nitrogen; P, phosphorus; µg/L, micrograms per liter; pCi/L, picoCuries per liter; --, no data. Site number refers to figure 9]

Site identifier	Site number	Nitrite plus nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ammonia plus organic nitrogen, dissolved (mg/L as N)	Ammonia plus organic nitrogen (mg/L as N)	Phosphorus, whole water (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Phosphate, dissolved (mg/L as P)	Total organic carbon (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)
282358081372201	35	20	.01	--	--	.48	.14	--	--	2.0	--	--	--	--	--
282404081050501	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282405081053002	38	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282406081093601	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282406081093602	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282411081211301	41	< .02	< .01	.20	.27	--	--	.04	.03	1.8	8.1	<2.0	53	< .50	34
282412081044701	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282416081054101	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282424081093601	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282451081054501	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282510081054501	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282529081073201	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282530081054201	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282530081065601	53	< .02	< .01	.50	.61	--	--	.05	.04	2.7	8.7	<2.0	99	< .50	100
282530081065603	55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282530081085401	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282530081091701	57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282530081094001	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282531081075602	61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282531081082201	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282531081095701	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282533081082202	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282548081054201	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282556081094001	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282612081054201	71	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282623081153801	72	< .02	< .01	.40	.67	--	--	< .02	< .01	9.1	--	<2.0	6.0	< .50	26
282624081090401	73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282631081323301	74	< .02	< .01	.44	.54	--	--	.07	.06	12	1,300	<2.0	18	< .50	15

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Iron, whole water (µg/L)	Iron, dissolved (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Strontium (µg/L)	Vanadium (µg/L)	Radon (pCi/L)
282358081372201	35	--	--	--	2,800	--	--	--	--	--	--	--	--
282404081050501	37	--	--	--	622	704	--	--	--	--	2,900	--	--
282405081053002	38	--	--	--	7,900	90	--	--	--	--	9,100	--	--
282406081093601	39	--	--	--	17	8.0	--	--	--	--	1,500	--	--
282406081093602	40	--	--	--	7,500	1,500	--	--	--	--	1,200	--	--
282411081211301	41	< .50	<1.0	<1.0	--	20	<2.0	2.2	1.4	<2.0	1,900	<1.0	64
282412081044701	42	--	--	--	51	--	--	--	--	--	5,400	--	--
282416081054101	43	--	--	--	39	18	--	--	--	--	5,800	--	--
282424081093601	44	--	--	--	39	13	--	--	--	--	1,400	--	--
282451081054501	46	--	--	--	30	5.0	--	--	--	--	2,300	--	--
282510081054501	47	--	--	--	15	4.0	--	--	--	--	1,200	--	--
282529081073201	51	--	--	--	97	--	--	--	--	--	2,400	--	--
282530081054201	52	--	--	--	45	45	--	--	--	--	1,200	--	--
282530081065601	53	< .50	<1.0	<1.0	--	8.0	<2.0	8.7	<1.0	2.6	12,362	<1.0	152
282530081065603	55	--	--	--	1,600	1,300	--	--	--	--	13,762	--	--
282530081085401	56	--	--	--	168	85	--	--	--	--	1,800	--	--
282530081091701	57	--	--	--	5.0	5.0	--	--	--	--	1,300	--	--
282530081094001	58	--	--	--	23	20	--	--	--	--	1,100	--	--
282531081075602	61	--	--	--	--	--	--	--	--	--	860	--	--
282531081082201	62	--	--	--	21	11	--	--	--	--	2,300	--	--
282531081095701	63	--	--	--	351	162	--	--	--	--	470	--	--
282533081082202	64	--	--	--	166	5.0	--	--	--	--	10,580	--	--
282548081054201	69	--	--	--	98	19	--	--	--	--	5,000	--	--
282556081094001	70	--	--	--	1,300	724	--	--	--	--	530	--	--
282612081054201	71	--	--	--	105	--	--	--	--	--	19,092	--	--
282623081153801	72	< .50	--	<1.0	--	2,000	<2.0	7.0	19	2.3	300	<1.0	752
282624081090401	73	--	--	--	17	38	--	--	--	--	1,400	--	--
282631081323301	74	< .50	1.9	<1.0	--	1,400	<2.0	1.4	7.6	<2.0	76	<1.0	224

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[mg/L, milligrams per liter; N, nitrogen; P, phosphorus; µg/L, micrograms per liter; pCi/L, picoCuries per liter; --, no data. Site number refers to figure 9]

Site identifier	Site number	Nitrite plus nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ammonia plus organic nitrogen, dissolved (mg/L as N)	Ammonia plus organic nitrogen (mg/L as N)	Phosphorus, whole water (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Phosphate, dissolved (mg/L as P)	Total organic carbon (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)
282632081054501	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282640080565901	180	< .02	< .01	.57	.74	--	--	< .02	< .01	3.5	<3.0	2.6	55	<1.0	90
282650081054201	76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282657081230401	77	< .02	< .01	.30	< .20	--	--	.05	.04	1.7	--	<2.0	32	< .50	--
282716081054501	78	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282722081371701	80	3.9	< .01	< .01	< .20	--	--	< .02	< .01	2.1	1,800	<2.0	20	< .50	40
282738081341401	81	.02	< .01	.10	< .20	--	--	.09	.08	.60	<3.0	<2.0	27	< .50	15
282739081054501	82	< .02	< .01	.50	.57	--	--	.04	.02	--	<3.0	<2.0	43	< .50	56
282739081054502	83	< .02	< .01	.30	.48	--	--	< .02	.02	12	19	2.1	33	< .50	24
282739081054503	84	< .02	< .01	.28	.38	--	--	.34	< .10	11	7.1	<2.0	34	< .50	22
282745081283501	85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
282838080572401	87	< .02	< .01	.50	.65	--	--	< .02	< .01	3.8	<3.0	<2.0	83	< .50	110
282838080572402	88	< .02	< .01	.59	1.0	--	--	.08	.07	18	10	4.6	47	< .50	45
282847081013701	90	< .02	< .01	.50	.54	--	--	< .02	< .01	3.1	<3.0	<2.0	46	< .50	40
282848080544501	92	< .02	< .01	.60	.64	--	--	< .02	.01	2.3	<3.0	<2.0	120	< .50	170
282856080544101	93	< .02	< .01	.70	1.1	--	--	.02	.02	7.5	<3.0	<2.0	410	< .50	95
282912081181201	95	< .02	.01	.18	< .20	--	--	.06	.04	2.2	135	<2.0	47	< .50	30
282924081290401	97	< .02	.01	.40	.26	--	--	.15	.16	1.7	--	<2.0	15	< .50	--
282931081285901	98	< .02	.01	.20	< .20	--	--	.05	.05	1.1	--	<2.0	16	< .50	--
283003081283801	100	< .02	< .01	.14	.24	--	--	.04	.03	11	145	6.5	19	< .50	16
283006081274101	102	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283011081152301	105	< .02	.01	.30	.26	--	--	.04	.05	1.6	--	<2.0	21	< .50	--
283011081152401	106	< .02	< .01	.30	.33	--	--	.05	.04	1.4	7.6	<2.0	26	< .50	34
283017081391301	107	< .02	< .01	.20	--	< .20	.03	.02	.04	--	--	--	--	--	--
283033081290301	108	< .02	< .01	.30	1.2	--	--	.08	.07	26	568	<2.0	2.0	< .50	30
283048081194801	109	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283126081064501	110	< .02	< .01	.30	.27	--	--	.04	.03	2.0	--	<2.0	28	< .50	--
283126081064502	111	< .02	< .01	.40	.28	--	--	.06	.05	2.0	--	<2.0	56	< .50	--

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Iron, whole water (µg/L)	Iron, dissolved (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Strontium (µg/L)	Vanadium (µg/L)	Radon (pCi/L)
282632081054501	75	--	--	--	3,600	146	--	--	--	--	10,217	--	--
282640080565901	180	< .50	<1.0	<1.0	--	26	<2.0	<3.0	<2.0	5.4	4,200	<1.0	--
282650081054201	76	--	--	--	102	56	--	--	--	--	1,400	--	--
282657081230401	77	< .50	--	<1.0	--	16	<2.0	--	<1.0	<2.0	920	<1.0	99
282716081054501	78	--	--	--	28	23	--	--	--	--	790	--	--
282722081371701	80	1.2	--	<1.0	--	8.0	4.9	.70	270	<2.0	51	<1.0	--
282738081341401	81	< .50	--	<1.0	--	32	<2.0	2.4	9.5	<2.0	100	<1.0	794
282739081054501	82	< .50	--	<1.0	--	185	<2.0	5.2	43	<2.0	3,400	<1.0	56
282739081054502	83	< .50	--	<1.0	--	5,100	<2.0	2.2	87	6.8	500	3.0	519
282739081054503	84	< .50	<1.0	<1.0	--	11,410	<1.0	2.9	16	<2.0	490	2.0	--
282745081283501	85	--	--	--	--	4.0	--	--	<1.0	--	620	--	--
282838080572401	87	< .50	--	<1.0	--	40	<2.0	11	1.6	<2.0	4,800	<1.0	1,597
282838080572402	88	< .50	<1.0	<1.0	--	3,400	<2.0	9.5	48	8.0	950	4.0	1,015
282847081013701	90	< .50	--	<1.0	--	144	<2.0	8.4	3.9	<2.0	2,400	<1.0	202
282848080544501	92	< .50	--	<1.0	--	154	<2.0	14	21	<2.0	6,500	<1.0	142
282856080544101	93	< .50	--	<1.0	--	399	<2.0	12	34	<2.0	5,200	<1.0	1,157
282912081181201	95	< .50	<1.0	<1.0	--	3,500	<2.0	1.0	10	2.9	58	<1.0	14,743
282924081290401	97	< .50	--	<1.0	--	16	<2.0	--	6.6	<2.0	84	2.0	1,119
282931081285901	98	< .50	--	<1.0	--	9.0	<2.0	--	1.9	<2.0	620	<1.0	102
283003081283801	100	< .50	1.6	<1.0	--	310	<2.0	< .50	170	<2.0	31	4.0	632
283006081274101	102	--	--	--	--	7.0	--	--	1.1	--	650	--	--
283011081152301	105	< .50	--	<1.0	--	2.0	<2.0	--	.9	<2.0	750	<1.0	145
283011081152401	106	< .50	--	<1.0	--	29	<2.0	1.4	6.1	3.1	830	<1.0	59
283017081391301	107	--	--	--	--	--	--	--	--	--	--	--	--
283033081290301	108	< .50	4.0	<1.0	--	320	<2.0	< .50	58	<2.0	80	2.0	71
283048081194801	109	--	--	--	--	25	--	--	2.8	--	320	--	--
283126081064501	110	< .50	--	<1.0	--	25	<2.0	--	2.7	<2.0	1,300	<1.0	100
283126081064502	111	< .50	--	<1.0	--	4.0	<2.0	--	<1.0	<2.0	6,500	<1.0	174

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

[mg/L, milligrams per liter; N, nitrogen; P, phosphorus; µg/L, micrograms per liter; pCi/L, picoCuries per liter; --, no data. Site number refers to figure 9]

Site identifier	Site number	Nitrite plus nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ammonia plus organic nitrogen, dissolved (mg/L as N)	Ammonia plus organic nitrogen (mg/L as N)	Phosphorus, whole water (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Phosphate, dissolved (mg/L as P)	Total organic carbon (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)
283210081180401	117	< .02	< .01	.20	.24	--	--	1.4	1.4	2.6	60	<2.0	7.0	< .50	14
283214080583501	118	< .02	< .01	.60	.63	--	--	.03	< .01	3.3	<3.0	<2.0	63	< .50	100
283228081213501	120	< .02	< .01	.70	.58	--	--	.17	.19	.60	21	<2.0	12	< .50	47
283236081290901	121	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283249081053201	122	< .02	< .01	.30	.70	--	--	.03	.03	2.7	<3.0	<2.0	29	< .50	29
283249081053203	124	.02	.01	.20	.46	--	--	.05	.05	3.3	70	2.0	6.0	.50	16
283251081283501	125	8.2	.02	.02	.21	--	--	.02	.01	3.0	67	2.0	35	.50	57
283253081283401	126	< .02	< .01	.10	< .20	--	--	< .02	< .01	.60	<3.0	<2.0	8.0	< .50	13
283307081300801	127	2.04	--	--	--	--	--	--	.02	1.5	--	--	--	--	--
283325081374001	128	.14	< .01	.10	.20	--	--	.05	.04	1.0	<3.0	<2.0	15	.80	19
283327081223201	129	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283345081225701	135	1.4	.02	.02	< .20	--	--	.04	.03	< .10	23	<2.0	11	< .50	17
283353081185801	136	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283353081222401	137	< .02	< .01	.40	.33	--	--	.07	.05	1.9	--	<2.0	13	< .50	--
283357081272201	139	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283517081121501	141	< .02	< .01	.20	.80	--	--	.03	.04	11	232	<2.0	2.0	< .50	9.3
283524081344701	142	7.76	--	.01	.18	.12	.76	.68	.72	--	--	--	--	--	--
283548081181401	143	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283555081245101	144	< .02	< .01	.10	.26	--	--	.04	.03	2.5	40	<2.0	6.0	< .50	25
283555081300801	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283623081230501	146	--	--	--	--	--	--	--	--	--	--	--	--	--	--
283646081195401	147	< .02	< .01	.50	.58	--	--	.09	.10	2.6	8.3	<2.0	6.0	< .50	21
283809081324801	148	< .02	< .01	.20	--	.22	.04	.06	.08	--	--	--	--	--	--
283813081292601	149	2.8	.02	.04	< .20	--	--	< .02	.02	1.2	473	<2.0	7.0	< .50	12
283816081225501	150	< .02	< .01	.40	.97	--	--	.17	.03	1.4	10	4.1	6.0	< .50	24
283819081292601	152	< .02	< .01	.10	< .20	--	--	.04	.05	.60	--	2.4	9.0	< .50	--
283828081333201	153	.02	--	1.27	--	--	--	--	.21	13	--	--	--	--	--
283914081331702	154	5.5	--	.20	1.7	--	--	.55	--	--	--	--	--	--	--

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Iron, whole water (µg/L)	Iron, dissolved (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Strontium (µg/L)	Vanadium (µg/L)	Radon (pCi/L)
283210081180401	117	< .50	<1.0	<1.0	--	1,100	<2.0	.70	15	<2.0	35	1.0	6,457
283214080583501	118	< .50	--	<1.0	--	20	<2.0	8.8	2.4	2.3	5,100	<1.0	815
283228081213501	120	< .50	<1.0	<1.0	--	181	<2.0	< .50	3.6	<2.0	20	<1.0	1,324
283236081290901	121	--	--	--	--	8.0	--	--	<1.0	--	64	--	--
283249081053201	122	< .50	--	<1.0	--	73	<2.0	3.2	5.6	2.2	1,200	<1.0	96
283249081053203	124	.50	--	1.0	--	7,500	<2.0	1.5	51	2.0	33	1.0	2,279
283251081283501	125	.50	--	1.0	--	16	<2.0	1.2	33	6.3	76	1.0	251
283253081283401	126	< .50	--	<1.0	--	35	<2.0	< .50	31	<2.0	34	<1.0	140
283307081300801	127	--	--	--	--	--	--	--	--	--	--	--	--
283325081374001	128	< .50	--	<1.0	--	19	<2.0	1.1	3.4	<2.0	78	<1.0	211
283327081223201	129	--	--	--	--	4.0	--	--	<1.0	--	230	--	--
283345081225701	135	< .50	<1.0	<1.0	--	206	<2.0	1.2	8.8	<2.0	20	2.0	5,101
283353081185801	136	--	--	--	--	7.0	--	--	<1.0	--	200	--	--
283353081222401	137	< .50	--	<1.0	--	33	<2.0	--	1.0	<2.0	210	<1.0	125
283357081272201	139	--	--	--	--	9.0	--	--	<1.0	--	84	--	--
283517081121501	141	< .50	--	<1.0	--	95	<2.0	< .50	1.4	<2.0	13	<1.0	153
283524081344701	142	--	--	--	--	--	--	--	--	--	--	--	--
283548081181401	143	--	--	--	--	7.0	--	--	<1.0	--	180	--	--
283555081245101	144	< .50	<1.0	<1.0	--	944	<2.0	< .50	5.8	<2.0	8.0	1.0	4,443
283555081300801	145	--	--	--	--	7.0	--	--	<1.0	--	57	--	--
283623081230501	146	--	--	--	--	13	--	--	1.8	--	91	--	--
283646081195401	147	< .50	--	<1.0	--	130	<2.0	1.0	4.9	<2.0	110	<1.0	832
283809081324801	148	--	--	--	--	--	--	--	--	--	--	--	--
283813081292601	149	< .50	<1.0	<1.0	--	3.0	<2.0	< .50	<1.0	<2.0	140	4.0	561
283816081225501	150	< .50	--	<1.0	--	1,300	<2.0	< .50	44	<2.0	54	<1.0	1,092
283819081292601	152	< .50	--	<1.0	--	11	<2.0	--	1.3	<2.0	73	<1.0	111
283828081333201	153	--	--	--	--	--	--	--	--	--	--	--	--
283914081331702	154	--	--	--	--	--	--	--	--	--	--	--	--

Appendix 3. Nutrient, total organic carbon, and selected trace elements concentrations for water samples from the surficial and Floridan aquifer systems (Continued)

Site identifier	Site number	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Iron, whole water (µg/L)	Iron, dissolved (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Strontium (µg/L)	Vanadium (µg/L)	Radon (pCi/L)
283915081352001	155	--	--	--	--	--	--	--	--	--	--	--	--
284051081380701	157	--	--	--	--	--	--	--	--	--	--	--	--
284120081331701	159	--	--	--	--	--	--	--	--	--	--	--	--
284230081345301	160	< .50	--	<1.0	--	57	<2.0	1.1	7.5	<2.0	76	<1.0	1,067
284230081345302	161	< .50	--	<1.0	--	4.0	<2.0	< .50	13	<2.0	14	<1.0	756
284238081275803	162	< .50	--	<1.0	--	27	<2.0	1.7	4.7	2.5	180	<1.0	352
284330081360501	163	--	--	--	--	--	--	--	--	--	--	--	--
284340081305101	164	--	--	--	--	--	--	--	--	--	100	--	--
284407081321601	165	--	--	--	--	8.0	--	--	1.1	--	890	--	--
284429081272001	166	--	--	--	--	24	--	--	--	--	770	--	--
284528081301101	169	< .50	--	<1.0	--	8.0	<2.0	1.0	5.7	<2.0	190	<1.0	5,130
284529081301001	170	< .50	--	<1.0	--	105	<2.0	.90	3.5	<2.0	140	<1.0	335
284541081265201	171	--	--	--	--	--	--	--	--	--	1,700	--	--
284612081303401	173	--	--	--	--	--	--	--	--	--	1,100	--	--
284612081303401	173	--	--	--	--	--	--	--	--	--	--	--	--
284634081262004	177	--	--	--	--	--	--	--	--	--	2,100	--	--
284635081280601	178	--	--	--	--	3.0	--	--	--	--	1,600	--	--
284636081261801	179	--	--	--	--	--	--	--	--	--	--	--	--

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems

[<, less than; E, estimated value; µg/L, micrograms per liter; --, no data; all analyses were on filtered samples. Site number refers to figure 9]

Site identifier	Site number	Site name	Date	2,6-Diethylaniline (µg/L)	Acetochlor (µg/L)	Alachlor (µg/L)	Atrazine (µg/L)	Benfluralin (µg/L)	Butylate (µg/L)	Carbaryl (µg/L)
282051081183401	3	Boggy Creek UF well	07-28-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282051081183402	4	Boggy Creek surf well	07-28-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282219081242501	13	Well at 441 & 417 near Kissimmee	03-02-00	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282331081370801	24	Hartzog Road UF well	07-12-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282348080564301	29	ORO715 (Palmetto surf)	08-25-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282348080564701	30	Palmetto well	07-26-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282352081224401	31	S. Orange Park surf well	11-30-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282411081211301	41	Well near Taft	04-06-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282530081065601	53	OR0614	04-07-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282623081153801	72	Cocoa P	08-18-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282631081323301	74	Tibet-Butler surf well	12-02-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282657081230401	77	Sky Lake near Pine Castle	04-12-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282722081371701	80	Conserv II well SP5	06-23-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282738081341401	81	Lake Sawyer UF well	07-13-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282838080572402	88	OR0713 (Turkey Camp surf)	02-17-00	<.003	<.002	<.002	<.001	<.002	<.002	<.003
282912081181201	95	OR0722 in Pine Castle	02-15-00	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283033081290301	108	Turkey Lake surf well	11-30-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283126081064501	110	OR0617 near Bithlo	04-14-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283210081180401	117	ORO718 (Englewood Park)	10-26-99	<.003	<.002	<.002	<.001	E.001	<.002	<.003
283214080583501	118	Dot E Highway 50	06-30-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283228081213501	120	ORO721 (Langford Park)	10-26-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283249081053201	122	Bithlo 1 well at Bithlo	08-16-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283249081053203	124	Bithlo 3 well at Bithlo	08-16-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283251081283501	125	OR0716 (Orange-47 surf well)	08-26-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283253081283401	126	OR-47 at Orlo Vista	07-15-99	<.003	<.002	<.002	.005	<.002	<.002	<.003
283325081374001	128	22S27E20	06-29-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283345081225701	135	ORO720 (Ivanhoe Park surf well)	10-28-99	<.003	<.002	<.002	E.003	<.002	<.002	<.003
283353081222401	137	No. 2	04-12-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283517081121501	141	CFRP West well near Union Park	06-24-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283646081195401	147	Bradner well at W. P.	09-01-99	<.003	<.002	<.002	.029	<.002	<.002	<.003
283813081292601	149	Surf well at W. Regional	02-16-00	<.003	<.002	<.002	<.001	<.002	<.002	<.003
283816081225501	150	Lake Charity well	08-12-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
284230081345301	160	OR0106 UF well	08-11-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003
284230081345302	161	OR0107 surf well	06-02-99	<.003	<.002	<.002	<.001	<.002	<.002	<.003

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems--Continued

Site identifier	Site number	Date	Carbofuran (µg/L)	Chlorpyrifos (µg/L)	Cyanazine (µg/L)	DCPA (µg/L)	DDE, <i>p,p'</i> - (µg/L)	Deethylatrazine (µg/L)	Diazinon (µg/L)	Dieldrin (µg/L)	Disulfoton (µg/L)
282051081183401	3	07-28-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282051081183402	4	07-28-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282219081242501	13	03-02-00	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282331081370801	24	07-12-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282348080564301	29	08-25-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282348080564701	30	07-26-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282352081224401	31	11-30-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282411081211301	41	04-06-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282530081065601	53	04-07-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282623081153801	72	08-18-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282631081323301	74	12-02-99	<.003	.005	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282657081230401	77	04-12-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282722081371701	80	06-23-99	<.003	<.004	<.004	<.002	<.006	E.003	<.002	<.001	<.017
282738081341401	81	07-13-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282838080572402	88	02-17-00	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
282912081181201	95	02-15-00	<.003	<.004	<.004	<.002	E.003	<.002	<.002	<.001	<.017
283033081290301	108	11-30-99	<.003	<.004	<.004	.008	<.006	<.002	<.002	<.001	<.017
283126081064501	110	04-14-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283210081180401	117	10-26-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283214080583501	118	06-30-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283228081213501	120	10-26-99	<.003	<.004	<.004	<.002	E.001	<.002	<.002	<.001	<.017
283249081053201	122	08-16-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283249081053203	124	08-16-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283251081283501	125	08-26-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283253081283401	126	07-15-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283325081374001	128	06-29-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283345081225701	135	10-28-99	<.015	<.004	<.004	<.002	<.006	E.003	<.002	<.001	<.017
283353081222401	137	04-12-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283517081121501	141	06-24-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283646081195401	147	09-01-99	<.003	<.004	<.004	<.002	<.006	E.003	.005	<.001	<.017
283813081292601	149	02-16-00	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
283816081225501	150	08-12-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
284230081345301	160	08-11-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017
284230081345302	161	06-02-99	<.003	<.004	<.004	<.002	<.006	<.002	<.002	<.001	<.017

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems--Continued

[<, less than, E, estimated value; µg/L, micrograms per liter; --, no data; all analyses were on filtered samples. Site number refers to figure 9]

Site identifier	Site number	Site name	Date	EPTC (µg/L)	Ethalfuralin (µg/L)	Ethoprop (µg/L)	Fonofos (µg/L)	Lindane (µg/L)	Linuron (µg/L)	Malathion (µg/L)
282051081183401	3	Boggy Creek UF well	07-28-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282051081183402	4	Boggy Creek surf well	07-28-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282219081242501	13	Well at 441 & 417 near Kissimmee	03-02-00	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282331081370801	24	Hartzog Road UF well	07-12-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282348080564301	29	ORO715 (Palmetto surf)	08-25-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282348080564701	30	Palmetto well	07-26-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282352081224401	31	S. Orange Park surf well	11-30-99	<.02	<.004	<.003	<.003	<.004	<.002	<.005
282411081211301	41	Well near Taft	04-06-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282530081065601	53	OR0614	04-07-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282623081153801	72	Cocoa P	08-18-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282631081323301	74	Tibet-Butler surf well	12-02-99	<.002	<.004	<.003	<.003	<.004	<.002	<.02
282657081230401	77	Sky Lake near Pine Castle	04-12-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282722081371701	80	Conserv II well SP5	06-23-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282738081341401	81	Lake Sawyer UF well	07-13-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282838080572402	88	OR0713 (Turkey Camp surf)	02-17-00	<.002	<.004	<.003	<.003	<.004	<.002	<.005
282912081181201	95	OR0722 in Pine Castle	02-15-00	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283033081290301	108	Turkey Lake surf well	11-30-99	<.02	<.004	<.003	<.003	<.004	<.002	<.005
283126081064501	110	OR0617 near Bithlo	04-14-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283210081180401	117	ORO718 (Englewood Park)	10-26-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283214080583501	118	Dot E Highway 50	06-30-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283228081213501	120	ORO721 (Langford Park)	10-26-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283249081053201	122	Bithlo 1 well at Bithlo	08-16-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283249081053203	124	Bithlo 3 well at Bithlo	08-16-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283251081283501	125	OR0716 (Orange-47 surf well)	08-26-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283253081283401	126	OR-47 at Orlo Vista	07-15-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283325081374001	128	22S27E20	06-29-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283345081225701	135	ORO720 (Ivanhoe Park surf well)	10-28-99	<.002	<.004	<.003	<.003	<.004	--	--
283353081222401	137	No. 2	04-12-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283517081121501	141	CFRP West well near Union Park	06-24-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283646081195401	147	Bradner well at W. P.	09-01-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283813081292601	149	Surf well at W. Regional	02-16-00	<.002	<.004	<.003	<.003	<.004	<.002	<.005
283816081225501	150	Lake Charity well	08-12-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
284230081345301	160	OR0106 UF well	08-11-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005
284230081345302	161	OR0107 surf well	06-02-99	<.002	<.004	<.003	<.003	<.004	<.002	<.005

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems--Continued

Site identifier	Site number	Date	Methyl azinphos (µg/L)	Methyl parathion (µg/L)	Metolachlor (µg/L)	Metribuzin (µg/L)	Molinate (µg/L)	Napropamide (µg/L)	Parathion (µg/L)	Pebulate (µg/L)	Pendimethalin (µg/L)
282051081183401	3	07-28-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282051081183402	4	07-28-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282219081242501	13	03-02-00	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282331081370801	24	07-12-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282348080564301	29	08-25-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282348080564701	30	07-26-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282352081224401	31	11-30-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282411081211301	41	04-06-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282530081065601	53	04-07-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282623081153801	72	08-18-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282631081323301	74	12-02-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282657081230401	77	04-12-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282722081371701	80	06-23-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282738081341401	81	07-13-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282838080572402	88	02-17-00	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
282912081181201	95	02-15-00	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283033081290301	108	11-30-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283126081064501	110	04-14-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283210081180401	117	10-26-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283214080583501	118	06-30-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283228081213501	120	10-26-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283249081053201	122	08-16-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283249081053203	124	08-16-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283251081283501	125	08-26-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283253081283401	126	07-15-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283325081374001	128	06-29-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283345081225701	135	10-28-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283353081222401	137	04-12-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283517081121501	141	06-24-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283646081195401	147	09-01-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283813081292601	149	02-16-00	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
283816081225501	150	08-12-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
284230081345301	160	08-11-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004
284230081345302	161	06-02-99	<.001	<.006	<.002	<.004	<.004	<.003	<.004	<.004	<.004

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems--Continued

[<, less than, E, estimated value; µg/L, micrograms per liter; --, no data; all analyses were on filtered samples. Site number refers to figure 9]

Site identifier	Site number	Site name	Date	Permethrin, <i>cis</i> - (µg/L)	Phorate (µg/L)	Prometon (µg/L)	Pronamide (µg/L)	Propachlor (µg/L)	Propanil (µg/L)	Propargite (µg/L)
282051081183401	3	Boggy Creek UF well	07-28-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282051081183402	4	Boggy Creek surf well	07-28-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282219081242501	13	Well at 441 & 417 near Kissimmee	03-02-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282331081370801	24	Hartzog Road UF well	07-12-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282348080564301	29	ORO715 (Palmetto surf)	08-25-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282348080564701	30	Palmetto well	07-26-99	<.005	<.002	<.018	<.003	<.007	<.004	--
282352081224401	31	S. Orange Park surf well	11-30-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282411081211301	41	Well near Taft	04-06-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282530081065601	53	OR0614	04-07-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282623081153801	72	Cocoa P	08-18-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282631081323301	74	Tibet-Butler surf well	12-02-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282657081230401	77	Sky Lake near Pine Castle	04-12-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282722081371701	80	Conserv II well SP5	06-23-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282738081341401	81	Lake Sawyer UF well	07-13-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282838080572402	88	OR0713 (Turkey Camp surf)	02-17-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013
282912081181201	95	OR0722 in Pine Castle	02-15-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283033081290301	108	Turkey Lake surf well	11-30-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283126081064501	110	OR0617 near Bithlo	04-14-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283210081180401	117	ORO718 (Englewood Park)	10-26-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283214080583501	118	Dot E Highway 50	06-30-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283228081213501	120	ORO721 (Langford Park)	10-26-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283249081053201	122	Bithlo 1 well at Bithlo	08-16-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283249081053203	124	Bithlo 3 well at Bithlo	08-16-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283251081283501	125	OR0716 (Orange-47 surf well)	08-26-99	<.005	<.002	.028	<.003	<.007	<.004	<.013
283253081283401	126	OR-47 at Orlo Vista	07-15-99	<.005	<.002	.025	<.003	<.007	<.004	<.013
283325081374001	128	22S27E20	06-29-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283345081225701	135	ORO720 (Ivanhoe Park surf well)	10-28-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283353081222401	137	No. 2	04-12-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283517081121501	141	CFRP West well near Union Park	06-24-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283646081195401	147	Bradner well at W. P.	09-01-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283813081292601	149	Surf well at W. Regional	02-16-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013
283816081225501	150	Lake Charity well	08-12-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
284230081345301	160	OR0106 UF well	08-11-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013
284230081345302	161	OR0107 surf well	06-02-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013

Appendix 4. Site information and pesticide concentrations in water samples from the surficial and the Floridan aquifer systems--Continued

Site identifier	Site number	Date	Simazine (µg/L)	Tebuthiuron (µg/L)	Terbacil (µg/L)	Terbufos (µg/L)	Thiobencarb (µg/L)	Triallate (µg/L)	Trifluralin (µg/L)
282051081183401	3	07-28-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282051081183402	4	07-28-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282219081242501	13	03-02-00	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282331081370801	24	07-12-99	<.005	<.02	<.007	<.013	<.002	<.001	<.002
282348080564301	29	08-25-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282348080564701	30	07-26-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282352081224401	31	11-30-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282411081211301	41	04-06-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282530081065601	53	04-07-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282623081153801	72	08-18-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282631081323301	74	12-02-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282657081230401	77	04-12-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282722081371701	80	06-23-99	.417	<.01	<.007	<.013	<.002	<.001	<.002
282738081341401	81	07-13-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282838080572402	88	02-17-00	<.005	<.01	<.007	<.013	<.002	<.001	<.002
282912081181201	95	02-15-00	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283033081290301	108	11-30-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283126081064501	110	04-14-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283210081180401	117	10-26-99	<.005	<.01	<.007	<.013	<.002	<.001	E.001
283214080583501	118	06-30-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283228081213501	120	10-26-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283249081053201	122	08-16-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283249081053203	124	08-16-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283251081283501	125	08-26-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283253081283401	126	07-15-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283325081374001	128	06-29-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283345081225701	135	10-28-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283353081222401	137	04-12-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283517081121501	141	06-24-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283646081195401	147	09-01-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283813081292601	149	02-16-00	<.005	<.01	<.007	<.013	<.002	<.001	<.002
283816081225501	150	08-12-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
284230081345301	160	08-11-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002
284230081345302	161	06-02-99	<.005	<.01	<.007	<.013	<.002	<.001	<.002