



Water-Data Report 2007

**283249081053203 Local number Bithlo-3 Well at Bithlo, FL.**

Surficial aquifer system  
 Nonartesian Sand Aquifer  
 Orange County, FL

LOCATION.--Lat 28°32'50", long 81°05'32" referenced to North American Datum of 1927, in NE ¼ NW ¼ SW ¼ sec.26, T.22 S., R.32 E., Orange County, FL, Hydrologic Unit 03080101, on north side of State Highway 50, 0.8 mi west of intersection with State Highway 520, and 1.0 mi east of Bithlo. Owner: U.S. Geological Survey.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 15 ft. Upper casing diameter 6 in, top of first opening 12 ft, bottom of last opening 15 ft. Drilled, observation, nonartesian well, cased to 12 ft.

DATUM.--Land-surface datum is 63.14 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing cap, 3.00 ft above land-surface datum, Oct. 1, 1977, to April 23, 2007; Top of casing, 2.93 ft above land-surface datum, June 25, 2007, to present.

PERIOD OF RECORD.--September 1960 to August 2000 (monthly); October 2000 to September 2002 (bimonthly); October 2002 to July 2007 (monthly); August 2007 to current year.

GAGE.--Water-stage recorder and data-collection platform--60-minute interval.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 64.21 ft above NGVD of 1929, Aug. 28, 1964; lowest measured, 54.08 ft above NGVD of 1929, May 23, 2005.

**WATER SURFACE ELEVATION IN FEET NGVD 1929  
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[Measurement method: T, electric tape; S, steel tape. Water-level status: - - , static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Oct 27	59.71	T	--	May 21	58.94	S	--
Nov 28	59.37	T	--	Jun 25	59.35	T	--
Dec 21	59.88	T	--	Jul 24	61.93	T	--
Jan 29	60.69	T	--	Aug 21	60.61	T	--
Feb 27	61.20	T	--	28	60.12	T	--
Mar 27	59.91	T	--	Sep 5	59.62	T	--
Apr 23	59.41	T	--	6	59.57	T	--
May 9	59.53	S	--	17	59.24	S	--

Water year 2007; lowest: 58.94 May 21, 2007 highest: 61.93 Jul 24, 2007

## 283249081053203 Local number Bithlo-3 Well at Bithlo, FL.—Continued

**ELEVATION ABOVE NGVD 1929, FEET**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	---	59.46
2	---	---	---	---	---	---	---	---	---	---	---	59.52
3	---	---	---	---	---	---	---	---	---	---	---	59.58
4	---	---	---	---	---	---	---	---	---	---	---	59.64
5	---	---	---	---	---	---	---	---	---	---	---	59.62
6	---	---	---	---	---	---	---	---	---	---	---	59.64
7	---	---	---	---	---	---	---	---	---	---	---	59.61
8	---	---	---	---	---	---	---	---	---	---	---	59.54
9	---	---	---	---	---	---	---	---	---	---	---	59.29
10	---	---	---	---	---	---	---	---	---	---	---	59.04
11	---	---	---	---	---	---	---	---	---	---	---	58.97
12	---	---	---	---	---	---	---	---	---	---	---	58.93
13	---	---	---	---	---	---	---	---	---	---	---	58.97
14	---	---	---	---	---	---	---	---	---	---	---	59.03
15	---	---	---	---	---	---	---	---	---	---	---	59.25
16	---	---	---	---	---	---	---	---	---	---	---	59.31
17	---	---	---	---	---	---	---	---	---	---	---	59.33
18	---	---	---	---	---	---	---	---	---	---	---	58.86
19	---	---	---	---	---	---	---	---	---	---	---	61.81
20	---	---	---	---	---	---	---	---	---	---	---	62.06
21	---	---	---	---	---	---	---	---	---	---	---	61.96
22	---	---	---	---	---	---	---	---	---	---	60.75	61.73
23	---	---	---	---	---	---	---	---	---	---	60.52	63.12
24	---	---	---	---	---	---	---	---	---	---	60.47	63.41
25	---	---	---	---	---	---	---	---	---	---	60.55	63.56
26	---	---	---	---	---	---	---	---	---	---	60.39	63.47
27	---	---	---	---	---	---	---	---	---	---	60.24	63.28
28	---	---	---	---	---	---	---	---	---	---	60.21	62.83
29	---	---	---	---	---	---	---	---	---	---	59.86	62.37
30	---	---	---	---	---	---	---	---	---	---	59.65	62.19
31	---	---	---	---	---	---	---	---	---	---	59.51	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	63.56
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	58.86



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## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-65, 1967-68, 1970-72, 1999, 2005 to current year.

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 2

[Remark codes: E, estimated.]

Date	Time	Elevation, feet above NGVD (72020)	pH, water, unfltrd field, std units (00400)	Specific conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)
May 09...	1100	59.53	6.1	342	22.0	130	44.7	4.70	.32	12.5	63	13.0	E.06

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 2

[Remark codes: E, estimated.]

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Stront- ium, water, fltrd, µg/L (01080)
May 09...	3.2	70.0	207	126