



Water-Data Report 2007

425433091285002 Local number 94-05-31 CAC

Cambrian-Ordovician aquifer system
Galena Formation
Clayton County, IA

LOCATION.--Lat 42°54'33", long 91°28'50" referenced to North American Datum of 1927, in SW ¼ NW ¼ SW ¼ sec.31, T.94 N., R.5 W., Clayton County, IA, Hydrologic Unit 07060004, located at entrance to Big Spring Fish Hatchery, 4.5 mi west and 1.25 mi south of the Town of St. Olaf.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 85 ft. Upper casing diameter 4 in, top of first opening 61 ft, bottom of last opening 85 ft. Drilled observation artesian water well, open hole 61-85 ft.

DATUM.--Land-surface datum is 855 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.23 ft above land-surface datum, May 3, 1994 to present. Land-surface datum from topographic map.

PERIOD OF RECORD.--December 1988 to September 30, 2004; August 2006 to September 2006; September 2007.

GAGE.--Measurement with chalked tape by USGS personnel.

REMARKS.--Well BS1-B. Historical water-level data published in OFR 91-63 and OFR 92-67.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.62 ft above land-surface datum, August 20, 1993; lowest measured, 13.37 ft below land-surface datum, February 15, 2000.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

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

| Date | Water level | Measurement method | Water level status |
|-------|-------------|--------------------|--------------------|
| Sep 4 | 0.46 | S | -- |