



Water-Data Report 2010

404432074225301 Local number 270001 Recreation Fld Obs NJ Permit Number 25-14164

Sand and gravel aquifers (glaciated regions)
Stratified Drift
Morris County, NJ

LOCATION.--Lat 40°44'32", long 74°22'52" referenced to North American Datum of 1927, Chatham Borough, Morris County, NJ, Hydrologic Unit 02030103, at Chatham Recreation Field, about 35 ft east of the intersection of Center Place and North Passaic St.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 150 ft. Upper casing diameter 6 in; top of first opening 140 ft, bottom of last opening 150 ft. Drilled observation well.

DATUM.--Land-surface datum is 218.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf, 3.2 ft above land-surface datum, Mar 1, 1967, to present.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--None: periodic measurements with chalked steel tape. Water-level recorder, March 1967 to August 1970.

REMARKS.--Water level is affected by nearby pumping.

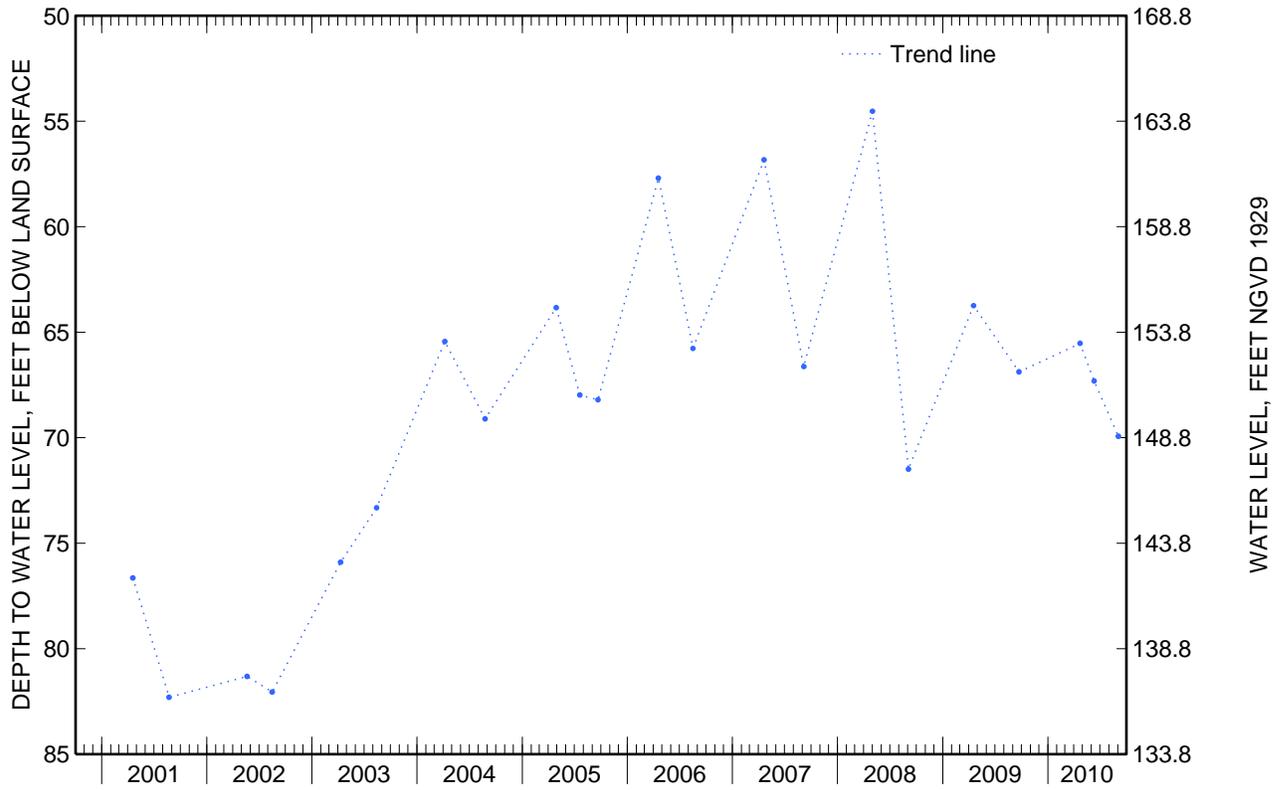
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 54.53 ft below land surface, May 1, 2008; lowest, 94.55 ft below land surface, Aug 16, 1970.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Water level	Date	Water level
Apr 22	65.53	Sep 2	69.93
Jun 10	67.31		

Water year 2010 highest: 65.53, Apr 22, 2010; lowest: 69.93, Sep 2, 2010

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, laboratory, μS/cm at 25 °C (90095)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
06-10-2010	1130	8.0	503	500	13.5	315	64.7	18.0	.94

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Iron, water, filtered, μg/L (01046)	Manganese, water, filtered, μg/L (01056)	Strontium, water, filtered, μg/L (01080)
06-10-2010	11.8	160	.05	33.7	E .07	23.0	43.1	< 6	3.0	178

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO
SEPTEMBER 2010

Part 3 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Arsenic, water, filtered, μg/L (01000)	Boron, water, filtered, μg/L (01020)
06-10-2010	.98	60