



Water-Data Report 2009

422035096281903 Local number 27N 8E 1ACCC3 (H3)

Alluvial aquifers
Sand and Gravel Deposits
Dakota County, NE

LOCATION.--Lat 42°20'35", long 96°28'19" referenced to North American Datum of 1983, in SW ¼ SW ¼ NE ¼ sec.1, T.27 N., R.8 E., Dakota County, NE, Hydrologic Unit 10230001.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 53 ft. Upper casing diameter 4 in; top of first opening 43 ft, bottom of last opening 53 ft.

DATUM.--Land-surface datum is 1,092 ft above National Geodetic Vertical Datum of 1929. Measuring point is 1.80 ft above land-surface datum, Mar. 26, 1999, to present.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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

Date	Water level	Measurement method	Water- level status
Aug 26	22.34	S	--

Period of record highest: 19.36, Feb 21, 2001; lowest: 24.25, Oct 25, 2006

Record available from Apr 21, 1999, to Aug 26, 2009; 37 entries

422035096281903 Local number 27N 8E 1ACCC3 (H3)—Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Depth to water level below LSD, meters (30210)	Depth to water level, feet below LSD (72019)	Dis- solved oxygen, of sat- uration mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	Flow rate, instan- taneous gal/min (00059)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unfl lab, μS/cm @ 25 degC (90095)	Specif- ic conduc- tance, wat unfl lab, μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)
Aug 26...	1200	735	19.9	6.81	22.34	M	.0	8.0	7.0	7.1	1,110	1,110	11.7

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Alti- tude of land surface feet (72000)	Depth of well, feet below LSD (72008)	Pump or flow period prior to sam- pling, minutes (72004)	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Dis- solved solids, water, tons/ acre-ft (70303)	Hard- ness, water, mg/L as CaCO3 (00900)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium frac- tion of cation percent (00932)
Aug 26...	61	1,092	53.00	20	E563	E.77	600	260	173	40.2	5.92	.3	5

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfl fixed end pt, lab, mg/L as CaCO3 (90410)	Alka- linity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt infl pt titr., field, mg/L (00453)	Carbon dioxide water, unfltrd mg/L (00405)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Hydro- gen ion, water, unfltrd calcd, mg/L (00191)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)
Aug 26...	15.2	561	342	416	99	5.57	.36	.00009	32.3	73.0	.17	.129	<.04

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

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Date	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, µg/L (01046)	Mangan- ese, water, fltrd, µg/L (01056)	Tri- zine screen, wat flt ELISA, µg/L as atrazin (34756)
Aug 26...	E.004	E.001	.298	.097	10,500	959	<.10