

Sand and gravel aquifers (glaciated regions)  
Glacial Surficial Sand and/or Gravel

Polk County, MN

LOCATION.--Lat 47°41'34.7", long 96°20'30.25" referenced to North American Datum of 1983, in NE ¼ NE ¼ SW ¼ sec.30, T.149 N., R.44 W., Polk County, MN, Hydrologic Unit 09020303, 11.7 miles east and 4.7 miles south of Crookston, Minnesota or 9 miles west and 0.6 miles south of Mentor, Minnesota.

### GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 10.42 ft. Upper casing diameter 2.04 in; top of first opening 5.58 ft, bottom of last opening 9.88 ft. The hole for well E03-R was drilled with an 8.25-inch-diameter power auger to a depth of 22.5 feet. The well is constructed of a 4.3-foot-long, 2.04-inch-diameter, schedule-40 PVC, 0.010-inch slotted, flush-threaded screen attached to several lengths of 10.00 feet of 2.04-inch-diameter, schedule-40 PVC casing. This casing stick-up was 2.76 feet (1072.22 ft. NAVD88, +/- 0.07 ft.) above land surface when measured on Aug. 16, 2002. The open interval of the well is between 5.88 and 9.88 feet below land surface and the well is 10.42 feet deep.

DATUM.--Land-surface datum is 1,069.46 ft above North American Vertical Datum of 1988. Measuring point: Well heaves. This MP should not be used to calculate WL,BLS. MP at well is not updated here., 2.76 ft above land-surface datum, Aug. 16, 2002, to present; MP change was prorated during Dec. 2009, 3.30 ft above land-surface datum, Dec. 31, 2009, to Nov. 30, 2010; MP is mark on top of casing, NOT protection post., 3.32 ft above land-surface datum, Feb. 16, 2011, to April 28, 2011; MP is mark on top of casing, NOT protection post., 3.33 ft above land-surface datum, April 28, 2011, to July 13, 2011; MP is mark on top of casing, NOT protection post., 3.42 ft above land-surface datum, July 13, 2011, to present. Water levels are in feet above sea level and depth below land surface. Water levels are accurate to within 0.01 feet below land surface. Water-level elevations are accurate to plus-or-minus 0.07 feet, based on the elevation of the measuring point with a differential GPS survey. Water level differences are accurate to plus-or-minus 0.001 feet.

PERIOD OF RECORD.--Water levels were recorded daily during Oct. 23, 2002 to May 21, 2003. Water levels were recorded hourly during May 21, 2003 at 14:00 CDT to the present, except during the following periods:

<Br>May 26, 2004 at 03:00 CDT - Jun. 02, 2004 at 13:00 CDT: due to station failure.<Br>Jul. 26, 2004 at 20:00 CDT to Jul. 29, 2004 at 15:00 CDT: due to station failure.<Br>Jun. 12, 2005 at 17:00 CDT - Jun. 28, 2005 at 18:00 CDT: due to station failure.

GAGE.--Water level and water temperature were measured with a Design Analysis H-310 submersible pressure transducer accurate to 0.01 feet and 0.1°C respectively. Data were recorded hourly by a Campbell Scientific, Inc. CR500 data logger. The data logger was upgraded to a Campbell Scientific, Inc. CR206 on Apr. 28, 2011. The data logger is housed in a shelter attached to the well casing, is solar powered, and data are telemetered by radio and telephone.

An unheated Texas Electronics, Inc. TR-525I tipping-bucket rain gage was added to the station on Apr. 29, 2003 at 15:00 CDT which measures and records precipitation total hourly. On Apr. 28, 2011, precipitation total began being recorded quarter-hourly.

COOPERATION.--This site is operated by the U.S. Geological Survey as part of a study to understand hydrologic changes resulting from wetland and prairie restoration and climate change. The station is funded in cooperation with the Red Lake Watershed District, the U.S. Fish and Wildlife Service, and The Nature Conservancy.

REMARKS.--Measured groundwater levels are precise to two decimal places, not the 3 decimal places reported. Differences between subsequent groundwater levels are precise to 3 decimal places, however. Three-decimal place precision is useful at this site for hydrologic analyses such as estimation of groundwater recharge and evapotranspiration.

Write about record quality during periods without calibration measurements. Write about heaving problem and implication on accuracy of record without stickup measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level: -0.444 feet below land surface datum (1069.904 feet NAVD88) on Aug. 20, 2010 at 06:00 CDT & Sept. 10, 2010 at 21:00 CDT; lowest water level: 5.654 feet below land surface datum (1064.155 feet NAVD88) on Mar. 01, 2007 at 09:00 CST.

Highest daily-average water level: -0.333 feet below land surface datum (1069.980 feet NAVD88) on Sept. 24, 2010; lowest daily-average water level: 5.650 feet below land surface datum (1063.810 feet NAVD88) on Mar. 01, 2007.

EXTREMES FOR CURRENT YEAR.--Highest water level: -0.343 feet below land surface datum (1069.803 feet NAVD88) on Oct. 27, 2010 at 09:00 CDT; lowest water level: 4.118 feet below land surface datum (1065.342 feet NAVD88) on Sept. 20, 2011 at 12:00 CDT.

Highest daily-average water level: -0.324 feet below land surface datum (1070.072 feet NAVD88) on Oct. 26, 2010; lowest daily-average water level: 4.112 feet below land surface datum (1065.348 feet NAVD88) on Sept. 20, 2011.

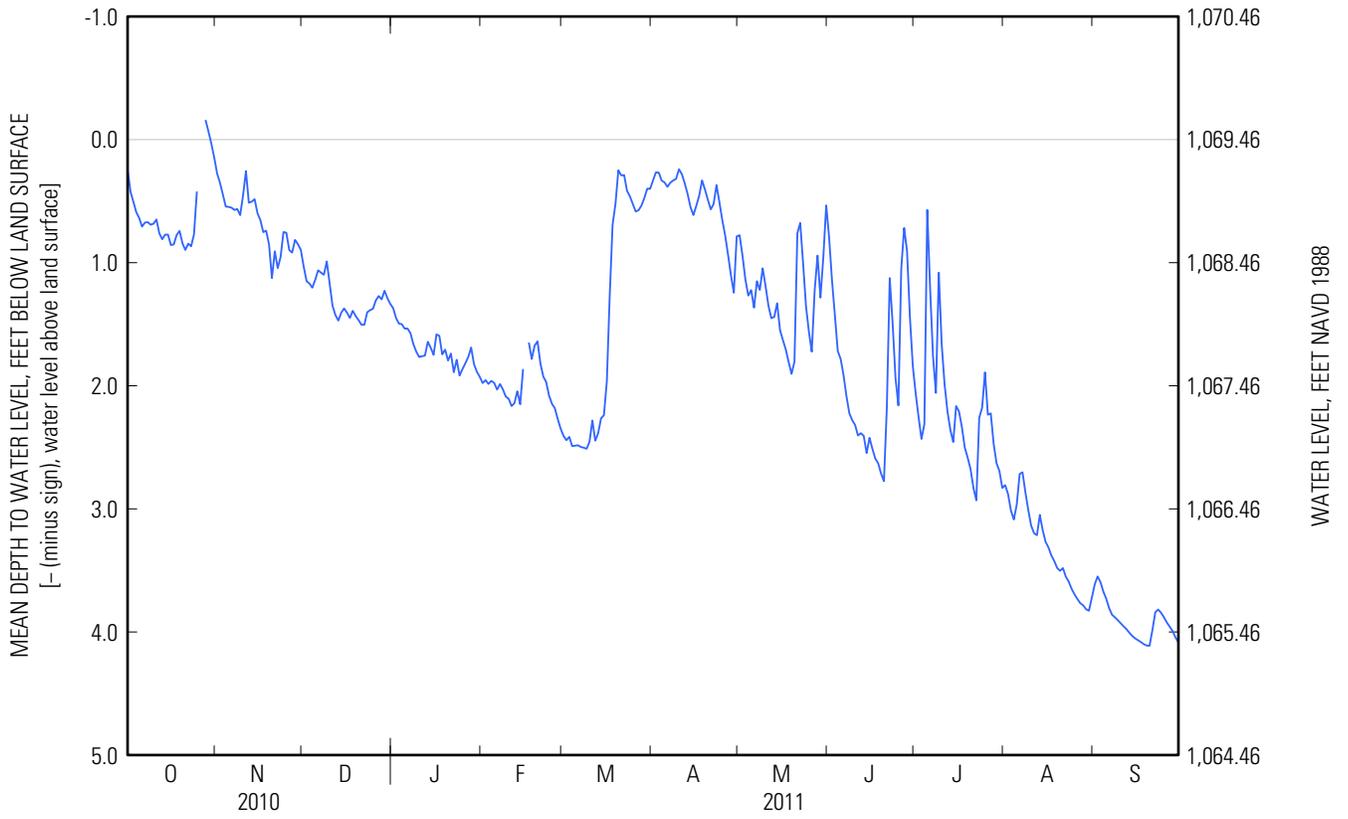
REVISIONS.--Measurements of the well measuring point (stickup) datum shows that the well is being affected by freeze/thaw conditions, which are causing the well to heave up and down in varying amounts throughout the year. This was first documented during a site visit on Jul. 08, 2010, but likely began taking place before this date. These changes in the well measuring point (stickup) datum are now being corrected in the water level record whenever a measurement of the measuring point (stickup) datum is made at the site. These corrections have been made to already published water level data for this site. Please contact the Minnesota Water-Science Center for corrected water level data that had previously been published before Oct. 01, 2006.

EXTREMES FOR CURRENT YEAR.--Highest water level, 1,065.342 ft below land surface datum, Sept. 20; lowest water level, 1,069.803 ft below land surface datum, Oct. 27.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

[- (minus sign), value is water level above land surface; e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.245	0.274	1.031	1.369	1.978	2.407	0.332	0.777	0.794	2.064	2.807	3.615
2	0.422	0.351	1.150	1.450	1.954	2.442	0.267	0.942	1.142	2.255	2.881	3.549
3	0.505	0.446	1.170	1.495	1.985	2.415	0.268	1.135	1.427	2.432	3.015	3.595
4	0.589	0.544	1.203	1.500	1.960	2.490	0.333	1.267	1.718	2.313	3.086	3.672
5	0.636	0.547	1.139	1.536	1.977	2.487	0.348	1.223	1.782	0.571	2.965	3.730
6	0.707	0.553	1.062	1.535	2.031	2.483	0.384	1.365	1.913	1.213	2.717	3.806
7	0.674	0.572	1.081	1.574	1.986	2.497	0.350	1.151	2.083	1.761	2.703	3.860
8	0.671	0.564	1.098	1.662	2.029	2.503	0.332	1.221	2.222	2.058	2.866	3.881
9	0.692	0.614	0.990	1.723	2.088	2.512	0.319	1.046	2.279	1.081	3.010	3.904
10	0.683	0.454	1.170	1.766	2.105	2.455	0.241	1.192	2.318	1.661	3.137	3.929
11	0.649	0.256	1.351	1.760	2.165	2.282	0.281	1.351	2.404	1.987	3.198	3.954
12	0.762	0.513	1.426	1.755	2.141	2.446	0.356	1.451	2.385	2.208	3.214	3.977
13	0.810	0.504	1.470	1.643	2.045	2.386	0.443	1.441	2.407	2.358	3.049	4.006
14	0.772	0.484	1.407	1.691	2.150	2.265	0.550	1.330	2.547	2.457	3.174	4.032
15	0.772	0.598	1.372	1.749	1.864	2.239	0.613	1.548	2.423	2.165	3.268	4.052
16	0.857	0.654	1.406	1.582	---	1.967	0.538	1.629	2.512	2.209	3.314	4.067
17	0.852	0.752	1.449	1.595	1.649	1.273	0.456	1.705	2.591	2.336	3.379	4.082
18	0.775	0.740	1.391	1.745	1.782	0.692	0.332	1.809	2.629	2.502	3.424	4.099
19	0.742	0.853	1.433	1.706	1.674	0.523	0.406	1.903	2.713	2.584	3.480	4.110
20	0.842	1.125	1.466	1.795	1.639	0.249	0.489	1.805	2.775	2.677	3.503	4.112
21	0.897	0.908	1.504	1.738	1.819	0.291	0.567	0.761	2.180	2.830	3.481	3.984
22	0.846	1.044	1.505	1.890	1.925	0.288	0.523	0.677	1.125	2.931	3.551	3.840
23	0.867	0.955	1.403	1.789	1.970	0.416	0.370	1.008	1.488	2.260	3.591	3.818
24	0.771	0.751	1.386	1.917	2.081	0.461	0.508	1.355	1.936	2.179	3.649	3.844
25	0.422	0.757	1.374	1.865	2.146	0.523	0.654	1.561	2.160	1.891	3.694	3.881
26	---	0.897	1.306	1.817	2.183	0.584	0.779	1.723	1.048	2.235	3.732	3.923
27	---	0.918	1.271	1.767	2.270	0.574	0.936	1.224	0.718	2.224	3.766	3.958
28	-0.160	0.815	1.298	1.689	2.348	0.536	e1.102	0.942	0.906	2.471	3.783	3.993
29	-0.067	0.850	1.228	1.825	---	0.475	1.244	1.284	1.443	2.629	3.815	4.045
30	0.031	0.895	1.288	1.886	---	0.399	0.786	0.956	1.839	2.693	3.828	4.085
31	0.144	---	1.335	1.928	---	0.400	---	0.534	---	2.830	3.723	---
<b>Mean</b>	---	0.673	1.296	1.701	---	1.483	0.504	1.268	1.930	2.196	3.316	3.913
<b>Max</b>	---	1.125	1.505	1.928	---	2.512	1.244	1.903	2.775	2.931	3.828	4.112
<b>Min</b>	---	0.256	0.990	1.369	---	0.249	0.241	0.534	0.718	0.571	2.703	3.549
<b>Med</b>	---	0.634	1.335	1.738	---	1.967	0.424	1.267	2.122	2.255	3.314	3.941



**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water temperature were recorded daily during Oct. 23, 2002 to May 21, 2003. Water temperature were recorded hourly during May 21, 2003 at 14:00 CDT to the present, except during the following periods:

May 26, 2004 at 03:00 CDT - Jun. 02, 2004 at 13:00 CDT: due to station failure.

Jul. 26, 2004 at 20:00 CDT to Jul. 29, 2004 at 15:00 CDT: due to station failure.

Jun. 12, 2005 at 17:00 CDT - Jun. 28, 2005 at 18:00 CDT: due to station failure.

INSTRUMENTATION.--Water temperature is measured with a Design Analysis H-310 submersible pressure transducer accurate to 0.1°C. Record is currently uncalibrated while sufficient calibration data is being collected.

COOPERATION.--This site is operated by the U.S. Geological Survey as part of a study to understand hydrologic changes resulting from wetland and prairie restoration and climate change. The station is funded in cooperation with the Red Lake Watershed District, the U.S. Fish and Wildlife Service, and The Nature Conservancy.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily-average, 13.3°C on many hours during Sept., 2006; minimum daily-average, 2.5°C on many days during Apr. & May, 2003.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum daily-average, 13.3°C on many days during Sept., 2006; minimum daily-average, 1.9°C on many days during Apr. & May, 2003.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum hourly, 12.6°C on many hours during Sept., 2011; minimum hourly, 3.4°C on many hours during Apr., 2011.

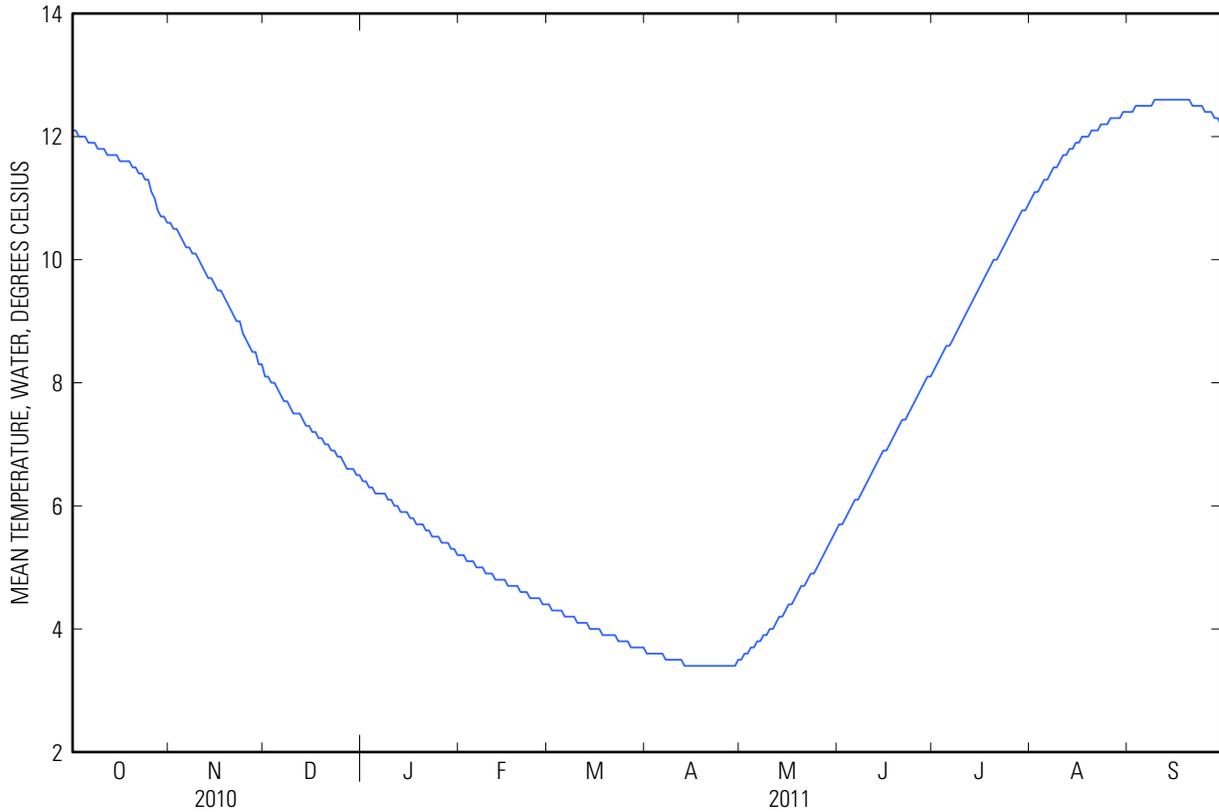
Maximum daily-average, 12.6°C on many days during Sept., 2011; minimum daily-average, 3.4°C on many days during Apr., 2011.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 12.6°C, on several days; minimum, 3.4°C, on several days.

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12.1	10.6	8.1	6.4	5.2	4.4	3.6	3.5	5.7	8.2	11.0	12.4
2	12.1	10.5	8.1	6.4	5.2	4.3	3.6	3.6	5.7	8.3	11.1	12.4
3	12.0	10.5	8.0	6.3	5.1	4.3	3.6	3.6	5.8	8.4	11.1	12.5
4	12.0	10.4	8.0	6.3	5.1	4.3	3.6	3.7	5.9	8.5	11.2	12.5
5	12.0	10.3	7.9	6.2	5.1	4.3	3.6	3.7	6.0	8.6	11.3	12.5
6	11.9	10.2	7.8	6.2	5.0	4.2	3.6	3.8	6.1	8.6	11.3	12.5
7	11.9	10.2	7.7	6.2	5.0	4.2	3.5	3.8	6.1	8.7	11.4	12.5
8	11.9	10.1	7.7	6.2	5.0	4.2	3.5	3.9	6.2	8.8	11.5	12.5
9	11.8	10.1	7.6	6.1	4.9	4.2	3.5	3.9	6.3	8.9	11.5	12.6
10	11.8	10.0	7.5	6.1	4.9	4.1	3.5	4.0	6.4	9.0	11.6	12.6
11	11.8	9.9	7.5	6.0	4.9	4.1	3.5	4.0	6.5	9.1	11.7	12.6
12	11.7	9.8	7.5	6.0	4.8	4.1	3.5	4.1	6.6	9.2	11.7	12.6
13	11.7	9.7	7.4	5.9	4.8	4.1	3.4	4.2	6.7	9.3	11.8	12.6
14	11.7	9.7	7.3	5.9	4.8	4.0	3.4	4.2	6.8	9.4	11.8	12.6
15	11.7	9.6	7.3	5.9	4.8	4.0	3.4	4.3	6.9	9.5	11.9	12.6
16	11.6	9.5	7.2	5.8	4.7	4.0	3.4	4.4	6.9	9.6	11.9	12.6
17	11.6	9.5	7.2	5.8	4.7	4.0	3.4	4.4	7.0	9.7	12.0	12.6
18	11.6	9.4	7.1	5.7	4.7	3.9	3.4	4.5	7.1	9.8	12.0	12.6
19	11.6	9.3	7.1	5.7	4.7	3.9	3.4	4.6	7.2	9.9	12.0	12.6
20	11.5	9.2	7.0	5.7	4.6	3.9	3.4	4.7	7.3	10	12.1	12.6
21	11.5	9.1	7.0	5.6	4.6	3.9	3.4	4.7	7.4	10.0	12.1	12.5
22	11.4	9.0	6.9	5.6	4.6	3.9	3.4	4.8	7.4	10.1	12.1	12.5
23	11.4	9.0	6.9	5.5	4.5	3.8	3.4	4.9	7.5	10.2	12.2	12.5
24	11.3	8.8	6.8	5.5	4.5	3.8	3.4	4.9	7.6	10.3	12.2	12.5
25	11.3	8.7	6.8	5.5	4.5	3.8	3.4	5.0	7.7	10.4	12.2	12.4
26	e11.1	8.6	6.7	5.4	4.5	3.8	3.4	5.1	7.8	10.5	12.3	12.4
27	11.0	8.5	6.6	5.4	4.4	3.7	3.4	5.2	7.9	10.6	12.3	12.4
28	10.8	8.5	6.6	5.4	4.4	3.7	3.4	5.3	8.0	10.7	12.3	12.3
29	10.7	8.3	6.6	5.3	---	3.7	3.4	5.4	8.1	10.8	12.3	12.3
30	10.7	8.3	6.5	5.3	---	3.7	3.5	5.5	8.1	10.8	12.4	12.2
31	10.6	---	6.5	5.2	---	3.7	---	5.6	---	10.9	12.4	---



**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated; U, analyzed for but not detected]

Date	Sample start time	Medium name	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 +/- 30 degrees to incident light, NTU (63675)
07-13-2011	1130	Groundwater	739	23.2	2.96	.1	6.6	834	12.9	E 14
08-25-2011	1430	Groundwater	734	27.0	4.36	.4	6.5	908	15.7	16

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than; E, estimated; U, analyzed for but not detected]

Date	Sample start time	Sample purpose (71999)	Sampler type (84164)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00452)	Hydrogen sulfide, water, unfiltered, mg/L (71875)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
07-13-2011	1130	GW Network	Peristaltic pump	516	628	.1	U	.153	< .02
08-25-2011	1430	GW Network	Peristaltic pump	539	657	.1	U	.138	< .02

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than; E, estimated; U, analyzed for but not detected]

Date	Sample start time	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)
07-13-2011	1130	.003	.026	.019	.71
08-25-2011	1430	.002	.026	.013	.78

**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--Precipitation were recorded hourly during Apr. 29, 2003 at 15:00 CDT - to the present, except during the following periods:

<Br>May 26, 2004 at 03:00 CDT - Jun. 02, 2004 at 13:00 CDT: due to station failure.<Br>Jul. 26, 2004 at 20:00 CDT - Jul. 29, 2004 at 15:00 CDT: due to station failure.<Br>Jun. 12, 2005 at 17:00 CDT - Jun. 28, 2005 at 18:00 CDT: due to station failure.

Precipitation was recorded quarter-hourly from Apr. 28, 2011 at 16:15 CDT to the present.

INSTRUMENTATION.--Precipitation is measured with an unheated Texas Electronics, Inc. 6.1-inch TR-525I tipping-bucket raingage accurate to 0.01 inch, except during freezing periods (about Dec. through early Apr.). The rain gage is unheated and uncovered. The precipitation data during freezing periods result from melting of snow (accumulated in the rain gage) during warm periods and do NOT represent actual precipitation. Precipitation totals during freezing periods may underestimate actual totals because the rain gage funnel may be full of snow (preventing further accumulation) or because snow in the funnel may sublimate instead of melt.

REMARKS.--Beginning on or shortly before Apr. 29, 2010, a dead frog was primarily covering the raingage funnel hole and slowing the rate of precipitation recordings. The dead frog was discovered on Apr. 28, 2011 during a site inspection. The frog was then removed during the routine maintenance and calibration of the raingage. For the most part, between Apr. 29, 2010 and Apr. 28, 2011, the raingage was recording data and rainfall events, though, these precipitation totals are still somewhat suspect until the the dead frog was removed on Apr. 28, 2011.

EXTREMES FOR PERIOD OF RECORD.--

PRECIPITATION: Maximum hourly, 1.50 inches on Jun. 22, 2003 at 19:00 CDT; maximum daily, 3.31 inches on Aug. 12, 2006.

EXTREMES FOR CURRENT YEAR.--

PRECIPITATION: Maximum hourly, 0.57 inches on Jul. 23, 2011 at 05:00 CDT; maximum daily, 1.29 inches on Jul. 04, 2011.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.29 in., July 4; minimum precipitation, 0.00 in., on many days.

**PRECIPITATION, TOTAL, INCHES**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.14	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.10	0.29
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.00	1.29	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.33	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.00
9	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.08	0.00	0.48	0.01	0.00
10	0.00	0.18	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.24	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.05	0.28	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.08	0.01	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
19	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.00	0.14	0.50
21	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.29	0.02	0.00	0.00	0.15
22	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.10	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.68	0.70	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15	0.40	0.00	0.00
25	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
26	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.10	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.34	0.00	0.00	0.00
28	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
29	0.03	0.00	0.00	0.00	---	0.00	0.02	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.01	0.00	---	0.00	0.27	0.41	0.00	0.07	0.24	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.14	---	0.00	0.02	---
<b>Total</b>	---	0.22	0.01	0.00	0.05	0.15	1.81	1.85	2.08	3.61	1.31	0.98

