

Data for Selected Gaging Stations in the Upper Red River of the North Basin in Minnesota, September 2001 through September 2003

Open-File Report 2005-1150

U.S. Department of the Interior U.S. Geological Survey

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By William C. Damschen and Rochelle A. Nustad

In cooperation with the Minnesota Pollution Control Agency

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U.S. Department of the Interior U.S. Geological Survey

U.S. Department of the Interior

Gale A. Norton, Secretary

U.S. Geological Survey

Charles G. Groat, Director

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Data for Selected Gaging Stations in the Upper Red River of the North Basin in Minnesota, September 2001 through September 2003

By William C. Damschen and Rochelle A. Nustad

Abstract

Surface-water and water-quality data were collected to use in development of upper Red River of the North Basin Total Maximum Daily Loads (TMDLs). This report presents the data that were collected.

During September 2001 through September 2003, data were collected at 13 selected gaging stations in the upper Red River of the North Basin. Continuous streamflow data were collected at three of the gaging stations. Water-quality samples were collected at all 13 gaging stations; and, simultaneous with sample collection, in-stream specific conductance, pH, water temperature, dissolved oxygen, and turbidity were measured. Samples were analyzed for selected nutrients, selected bacteria, chlorophyll *a*, and suspended sediment.

Continuous in-stream water-quality monitors were installed at two gaging stations to measure specific conductance, pH, water temperature, dissolved oxygen, and turbidity.

Introduction

Water-quality standards and the associated Total Maximum Daily Load (TMDL) program were established by the Clean Water Act, section 303(d). A TMDL is "a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources" (Environmental Protection Agency, 2004). Water bodies that exceed a given water-quality standard are listed as impaired and the Environmental Protection Agency requires that the state complete a TMDL for impaired water bodies. Several tributaries in the upper Red River of the North Basin are listed as impaired on the 303(d) TMDL list (Minnesota Pollution Control Agency, 2004). Some of the impaired reaches of the upper Red River of the North Basin are the Mustinka River for turbidity impairment from the Grant and Traverse County line to Fivemile Creek and from Unnamed Creek to Lake Traverse; the Rabbit River for biota, ammonia, and turbidity impairment from the Wilkin County line to the Bois de Sioux River; the Otter Tail River for fecal coliform and turbidity impairment from Breckenridge Lake to the Bois de Sioux River and for biota and turbidity impairment from Judicial Ditch No. 2 to Brekenridge Lake; and Whiskey Creek for turbidity impairment from the headwaters to the Red River of the North. Additional information is needed in order to complete a TMDL for these impaired water bodies.

In 2001, the U. S. Geological Survey, in cooperation with the Minnesota Pollution Control Agency began to collect data needed to develop several TMDLs. This report presents the surface-water and water-quality data that were collected to use in the development of the upper Red River of the North Basin TMDLs.

Data Collection

During September 2001 through September 2003, a combination of surface-water and water-quality data were collected at 13 selected gaging stations in the upper Red River of the North Basin (fig. 1; table 1). Instantaneous streamflow was measured coincident with water-quality sample collection at all gaging stations except for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station (05046000) and the Mustinka River above Wheaton, Minn., gaging station (05049000). Continuous streamflow data were collected at the Otter Tail River below Fergus Falls, Minn., gaging station (05045900); at the Otter Tail River at 11th Street in Breckenridge, Minn., gaging station (05046502); and at the Whiskey Creek at Kent, Minn., gaging station (05051521).

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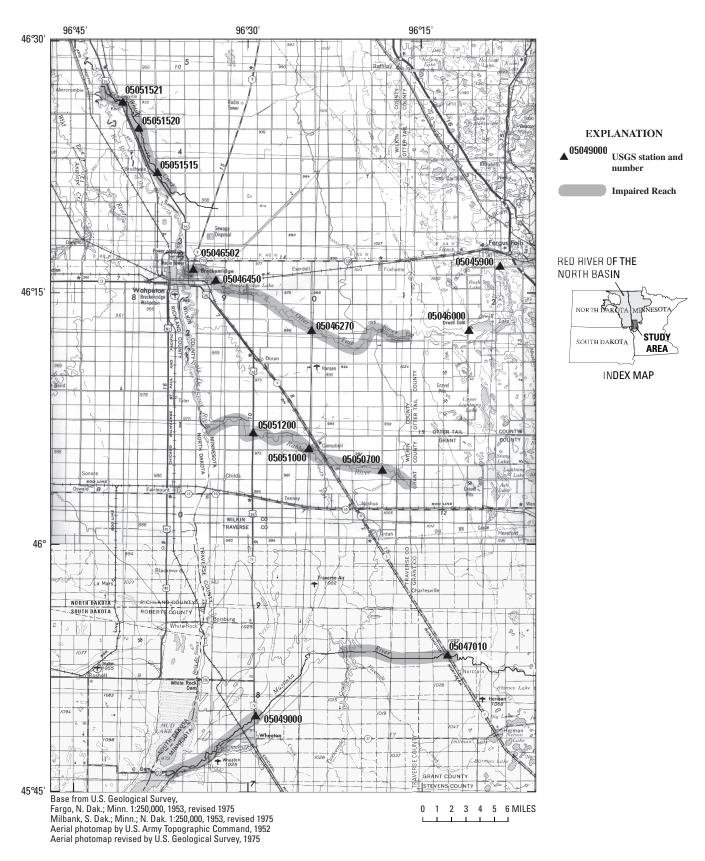


Figure 1. Location of sampling sites and 2004 impaired reaches in the upper Red River of the North Basin, Minnesota.

Gaging station number	Gaging station name	Type of data collected
05045900	Otter Tail River below Fergus Falls, MN	Surface water and water quality
05046000	Otter Tail River below Orwell Dam near Fergus Falls, MN	Water quality
05046270	Otter Tail River near Everdell, MN	Water quality
05046450	Otter Tail River above Breckenridge, MN	Water quality
05046502	Otter Tail River at 11th Street in Breckenridge, MN	Surface water and water quality
05047010	Mustinka River below Norcross, MN	Water quality
05049000	Mustinka River above Wheaton, MN	Water quality
05050700	Rabbit River near Nashua, MN	Water quality
05051000	Rabbit River at Campbell, MN	Water quality
05051200	Rabbit River near Campbell, MN	Water quality
05051515	Whiskey Creek below Brushvale, MN	Water quality
05051520	Whiskey Creek near Kent, MN	Water quality
05051521	Whiskey Creek at Kent, MN	Surface water and water quality

Table 1. Selected gaging stations in the upper Red River of the North Basin, Minnesota.

Water-quality samples were collected at all 13 gaging stations; and, simultaneous with sample collection, in-stream specific conductance, pH, water temperature, dissolved oxygen, and turbidity were measured. Water-quality samples were collected once a month during October through May and twice a month during June through September. Samples were not collected when streamflow was estimated to be less than 0.01 cubic foot per second. Samples were collected according to U.S. Geological Survey protocols (U.S. Geological Survey, variously dated). Samples were analyzed for selected nutrients, selected bacteria, chlorophyll *a*, and suspended sediment by several different sources (table 2). Supplementary bacteria samples were collected and analyzed according to U.S. Geological Survey protocols by Wilkin County Soil and Water Conservation District personnel.

Continuous in-stream water-quality monitors were installed on December 12, 2001, at the Mustinka River above Wheaton, Minn., gaging station (05049000) and on April 15, 2002, at the Whiskey Creek at Kent, Minn., gaging station (05051521). The monitors measured specific conductance, pH, water temperature, dissolved oxygen, and turbidity. Both monitors were removed in September 2003.

The surface-water and water-quality data that were collected to use in the development of the upper Red River of the North Basin TMDLs are presented in the supplemental table of this report.

Acknowledgements

The collection and analysis of supplementary bacteria data during summer months was made possible through the cooperation of Don Bajumpaa and other staff personnel at the Wilkin County Soil and Water Conservation District.

References

- Minnesota Pollution Control Agency, 2004, Red River of the North Basin, 2004–Impaired Waters List: accessed October 28, 2004, at URL http://www.pca.state.mn.us/publications/ maps/tmdl-rr-conv-04.pdf
- Environmental Protection Agency, 2004, Introduction to TMDLs: accessed October 28, 2004, at URL http:// www.epa.gov/owow/tmdl/intro.html
- U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book. 9, chaps. A1-A9, various pagination.

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Table 2. Constituents for which samples were analyzed and analysis source.

[USGS, U.S. Geological Survey; SWCD, Soil and Water Conservation District]

Parameter code	Constituent	Analysis source
00608	Nitrogen, ammonia, dissolved (milligrams per liter as N)	Minnesota Department of Health
00610	Nitrogen, ammonia, total (milligrams per liter as N)	Minnesota Department of Health
00613	Nitrogen, nitrite, dissolved (milligrams per liter as N)	Minnesota Department of Health
00625	Nitrogen, ammonia plus organic, total (milligrams per liter as N)	Minnesota Department of Health
00631	Nitrogen, nitrite plus nitrate, dissolved (milligrams per liter as N)	Minnesota Department of Health
00665	Phosphorus, total (milligrams per liter as P)	Minnesota Department of Health
00671	Phosphorus, orthophosphate, dissolved (milligrams per liter as P)	Minnesota Department of Health
31625	Fecal coliform, 0.7 micrometer-membrane filter (colonies per 100 milliliters)	USGS and Wilkin County SWCD
31633	Escherichia coli, m-TEC MF method (colonies per 100 milliliters)	USGS and Wilkin County SWCD
31673	Streptococci, fecal, membrane filter (colonies per 100 milliliters)	USGS and Wilkin County SWCD
32211	Chlorophyll <i>a</i> , phytoplankton, spectrophotometric acid method (micrograms per liter)	Minnesota Department of Health
70331	Sediment, suspended, sieve diameter (percent finer than 0.062 millimeter)	USGS Iowa Sediment Laboratory
80154	Sediment, suspended concentration (milligrams per liter)	USGS Iowa Sediment Laboratory

Supplement 1. Surface-water and water-quality data collected at selected gaging stations in the upper Red River of the North Basin in Minnesota, September 2001 through September 2003.

Abbreviations and symbols

mi², square mile ft, foot ft³/s, cubic foot per second AC-FT, acre foot cfs, cubic foot per second NTU, nephelometric turbidity unit mg/L, milligrams per liter μ S/cm, microsiemens per centimeter deg C, degree Celsius μ g/L, micrograms per liter mm, millimeter --, no data LOCATION.--Lat 46°16'32", long 96°08'03" in SE¹/₄ NW¹/₄ sec. 6, T. 132 N., R. 43 W., Otter Tail County, Hydrologic Unit 09020103, 1 mile south and 2.5 miles east of Fergus Falls.

DRAINAGE AREA.--1,690 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through January 2003.

GAGE.--Water stage recorder. Datum of gage is 1,100.00 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded daily discharge, 1,390 ft³/s, July 10, 2002; minimum recorded daily discharge, 173 ft³/s, December 4, 2002.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												471
7												615
8												650
9												569
10												574
11												558
12												536
13												513
14												519
15												580
16												510
17												504
18												499
19												458
20												463
21												42.4
21 22												424 395
22												393 404
23 24												404
24												413
25												715
26												426
27												415
28												443
29												394
30												367
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002 DAILY MEAN VALUES

DALLI MLAN VALOLS												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	433	464	505	434	416	532	728	792	445	615	718
2	350	408	512	526	482	400	530	726	798	480	619	637
3	342	442	539	528	535	384	530	734	756	529	649	659
4	343	442	464	508	518	380	525	699	736	567	656	645
5	339	420	484	520	440	415	523	702	696	537	651	674
6	288	429	476	535	465	448	532	706	690	568	645	644
7	325	416	485	547	485	466	558	718	664	618	639	636
8	304	446	474	502	511	463	596	847	661	902	622	611
ğ	292	426	509	521	532	430	598	889	622	771	575	585
9 10	479	408	510	547	506	410	656	930	586	1,390	563	633
11	501	408	513	582	517	381	730	943	596	927	626	564
12	438	397	539	554	501	453	686	925	573	716	610	541
13	440	412	525	564	487	547	665	916	534	668	513	542
14	406	420	530	596	489	597	680	902	554	626	567	540
15	410	404	556	553	506	562	694	898	529	578	595	540
16	403	431	568	542	508	544	707	877	491	602	604	536
17	341	413	561	548	506	550	734	882	472	606	543	516
18	276	431	594	454	508	530	763	849	434	637	511	481
19	549	399	489	443	529	513	748	863	454	634	473	505
20	377	394	451	459	495	522	699	840	444	666	521	472
21	361	409	494	475	493	422	668	835	460	729	602	391
22	377	385	491	499	500	424	708	836	462	723	529	387
23	375	393	492	537	494	440	689	828	516	737	507	393
24	390	416	415	515	498	527	685	875	523	732	483	388
25	407	432	385	468	406	509	682	850	485	748	522	397
26	400	442	397	493	371	534	678	699	474	637	470	419
27	384	379	475	518	366	537	683	781	481	744	609	397
28	400	385	517	538	458	602	780	789	495	742	621	417
29	382	411	531	431		620	787	833	474	693	701	388
30	416	387	533	361		546	745	846	470	641	618	390
31	421		535	354		549		794	470	684	593	
						549						
TOTAL	11,865	12,418	15,508	15,723	13,540	15,121	19,791	25,540	16,922	21,277	18,052	15,646
MEAN	383	414	500	507	484	488	660	824	564	686	582	522
MAX	549	446	594	596	535	620	787	943	798	1,390	701	718
MIN	276	379	385	354	366	380	523	699	434	445	470	387
AC-FT	23,530	24,630	30,760	31,190	26,860	29,990	39,260	50,660	33,560	42,200	35,810	31,030
	20,000	21,000	50,700	51,170	20,000	27,770	57,200	50,000	55,500	12,200	55,010	51,000

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003 DAILY MEAN VALUES

					DI		TLOLD					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	341	340	287								
2	336	369	294	322								
3	338	380	219	339								
4	353	382	173	297								
5	279	389	221	289								
5	217	507	221	20)								
6	360	403	291	308								
7	399	370	300	310								
8	347	373	217	291								
9	424	359	341	309								
10	417	354	333	283								
10	417	554	555	205								
11	414	350	338	208								
12	436	339	342	184								
13	465	331	342	191								
14	446	317	338	226								
15	373	355	338	205								
15	575	555	550	205								
16	343	372	330	243								
17	331	416	334	235								
18	356	452	320	212								
19	372	434	289	219								
20	367	372	308	215								
20	507	572	500	215								
21	385	370	333	216								
22	386	345	326	230								
23	381	348	335	252								
24	359	295	279	260								
25	356	294	269	252								
20	220	_>.	20)	202								
26	337	294	282	273								
27	321	296	291	274								
28	338	337	310	259								
29	358	394	356	248								
30	353	369	347	219								
31	352		291	209								
51	552		271	20)								
TOTAL	11,436	10,800	9,427	7,865								
MEAN	369	360	304	254								
MAX	465	452	356	339								
MIN	279	294	173	184								
AC-FT	22,680	21,420	18,700	15,600								
	22,000	21,120	10,700	15,000								

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through January 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	oxygen mg/L	units	condu tance wat u uS/cr 25 deg	ic- e, Ten nf atu m a gC deg	ire, ir, g C	Temper- ature, water, deg C (00010)	+ org wat unf mg as	-N, An ter, v ltrd f /L r N	/ater, Itrd, ng/L as N	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
1400 1110	527 417	0.0 11	10.3 9.9	8.4 8.3				22.1 16.4				<0.050 <0.050	$\begin{array}{c} 0.080\\ 0.060\end{array}$	<0.010 <0.010
	SEP 2 12	pho pha wa flt mg (000 2001 . 0.0	os- ate, F ter, pl rd, v g/L u P 1 571) (0	Phos- m- norus, l vater, w nfltrd of ng/L 10 0665) (3	TEĆ MF, ater, (col/ 0 mL 1633)	col/ 100 mL	strej tocoo KF MF col 100 r (3167	p- ph cci ph 7, ph 7, tr nL u 73) (32	yll a yto- ank- on, d m, g/L (211)	sedi- ment, sieve diametr percent <.063mr	per se cor tra n m (80	nded edi- eent icen- tion g/L 154) 8		
	1400	taneous dis- charge, cfs (00061) 1400 527 1110 417 Da SEP 2 12 26	Instan-bidity, taneous water, dis-unfltrd charge, field, Time cfs NTU (00061) (61028) 1400 527 0.0 1110 417 11 Ort ph pha te as (000 SEP 2001 12 0.0 26 0.0	$\begin{array}{c} \mbox{Instan-bidity,} \\ \mbox{taneous water,} & \mbox{Dis-bidity,} \\ \mbox{taneous water,} & \mbox{Dis-bidity,} \\ \mbox{dis-unfltrd solved} \\ \mbox{charge,} & \mbox{field,} & \mbox{oxygen,} \\ \mbox{(00061)} & (\mbox{61028)} & (\mbox{000300)} \\ \mbox{1400} & \mbox{527} & \mbox{0.0} & \mbox{10.3} \\ \mbox{1110} & \mbox{417} & \mbox{11} & \mbox{9.9} \\ \mbox{Ortho-phos-phate,} & \mbox{F} \\ \mbox{water,} & \mbox{phos-phate,} & \mbox{F} \\ \mbox{mater,} & \mbox{mater,} & \mbox{phos-phate,} & \mbox{F} \\ \mbox{mater,} & \mbox{phos-phate,} & \mbox{F} \\ \mbox{mater,} & \mbox{phos-phate,} & \mbox{F} \\ \mbox{mater,} & \mbox{phos-phos} \\ \mbox{mater,} & \mbox{phos-phos} \\ \mbox{mater,} & \mbox{phos} \\ \mbox{mater,} & \mbox{mater,} & \mbox{phos} \\ \mbox{mater,} & \mbox{mater,} & \mbox{mater,} \\ \mbox{mater,} & \mbox{mater,} \\ mater$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccccccccc} Instan-bidity, bidity, bi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccc} Instan-bidity, bidity, bi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Remark codes used in this table: < -- Less than E -- Estimated value

WATER-OUALITY DATA	WATER YEAR	OCTOBER 2001	THROUGH SEPTEMBER 2002
Witten generit Philip	, \dots	OCTOBLIC 2001	

					,								
		Instan- taneous	Tur- bidity, water,	Dis-	pH, water, unfltrd	Specif. conduc- tance,	Temper-	Temper-	Ammonia + org-N, water,	Ammonia water,	Ammonia water,	Nitrite + nitrate water	Nitrite water,
Date	Time	dis- charge, cfs (00061)	unfltrd field, NTU (61028)	solved oxygen, mg/L (00300)	field, std units (00400)	wat unf uS/cm 25 deg C (00095)	ature, air, deg C (00020)	ature, water, deg C (00010)	unfltrd mg/L as N (00625)	fltrd, mg/L as N (00608)	unfltrd mg/L as N (00610)	fltrd, mg/L as N (00631)	fltrd, mg/L as N (00613)
OCT 2001 11 NOV	0945	264	5.0	9.2	7.9	425	10.0	12.1	0.76	< 0.040		0.090	E.006
08	1045	348	1.0	11.5	8.1	456	2.2	7.7	0.74	< 0.050	< 0.050	0.070	< 0.010
DEC 13	1040	507	0.0	13.2	8.0	445	-4.2	1.8	0.69	< 0.050	0.750	0.110	< 0.010
JAN 2002 17	1045	E545	4.0	13.5	8.0	471	-8.0	1.6	0.70	0.100	0.100	0.110	< 0.010
FEB 14	1030	441	1.0	13.1	7.9	475	3.9	1.5	0.85	0.140	0.140	0.100	< 0.010
MAR 18	1715	E551	0.4	13.1	8.1	457	-5.0	3.1	0.77	0.120	0.110	0.070	< 0.010
APR 17	1610	738	33	11.0	8.0	409	19.4	15.2	0.91	0.060	0.080	0.090	0.020
MAY 16	0905	874	20	11.8	8.3	412	6.0	13.6	0.86	< 0.050	< 0.050	< 0.050	< 0.010
JUN 03 26	1645 1630	700 484	14 12	9.1 7.8	8.2 8.2	409 395	18.0 30.3	18.0 29.0	0.80 0.86	<0.050 <0.050	<0.050 0.050	$0.080 \\ 0.160$	<0.010 <0.010
JUL 11	1350	857	26	7.8	8.0	362	24.0	29.0	0.80	0.060	0.030	0.220	0.010
22 AUG	1720	693	7.0	7.9	8.1	373	24.0	26.5	0.95	<0.050	<0.050	0.220	<0.010
05 19	1615 1615	656 463	5.0 0.0	10.0 10.4	8.3 8.2	364 383	27.3 28.3	26.0 23.3	$0.88 \\ 0.58$	<0.050 <0.050	<0.050 <0.050	$0.070 \\ 0.050$	<0.010 <0.010
SEP 12	0915	622	7.0	7.4	8.1	375	18.8	23.2	0.66	<0.050	< 0.050	0.080	<0.010
25	1405	399	0.0	10.7	8.4	401	11.0	16.0	0.58	< 0.050	< 0.050	0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
11	E.02	0.07	E1,400	1,900	2,200	5.20	94	17
NOV	0.014	0.040	0.4	00	220	11.4	00	~
08 DEC	0.014	0.048	84	98	220	11.4	89	5
13	0.020	0.047				5.02	78	4
JAN 2002								
17	0.015	0.041				3.49	65	7
FEB 14	0.023	0.052				3.36	67	7
MAR	0.025	0.052				5.50	07	/
18	0.017	0.047				5.00	76	6
APR	0.007	0.072	501	FI.5.01	20	12.0	0.4	24
17 MAY	0.007	0.073	E8k	E58k	20	13.8	84	24
16	0.008	0.061	7k	21	55	8.97	80	21
JUN	0.000	0.001	711		00	0.77	00	
03	0.012	0.070	120k	60k	13k	6.59	88	21
26	0.034	0.089	140k	85k	79	3.94	91	27
JUL 11	0.043	0.113	460	500	2,100	3.31	87	37
22	0.043	0.088	200k		2,100	4.71	92	20
AUG	0.02)	0.000	2001				/-	20
05	0.017	0.058	12k	6k	45	4.63	92	7
19	0.012	0.042	18k	58	39	4.84	93	6
SEP 12	0.024	0.069	140	43k	120	4.49	93	17
12 25	$0.024 \\ 0.028$	0.069	140	43K 180	69	4.49 3.94	93 89	6
20	0.020	0.050	120	100	07	5.74	07	0

Remark codes used in this table: < -- Less than E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002 07 NOV 04 DEC 09 JAN 2003	1600 1630 1720	402 406 429	3.0 6.0 6.0	12.4 14.2 12.9	8.2 8.1 8.1	432 447 442	12.5 2.8 2.0	13.0 4.3 2.9	0.64 0.63 0.80	<0.050 <0.050 0.080	<0.050 <0.050 0.080	0.110 0.120 0.130	<0.010 <0.010 <0.010
13	1640	E191	16	14.1	7.8	484	-17.0	1.2		0.050	0.050	0.250	< 0.010

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
OCT 2002								
07	0.060	0.103	180	200	34	3.99	100	7
NOV								
04	0.029	0.064	12k	44	16k	10.0	95	4
DEC								
09	0.030	0.063				8.43	78	8
JAN 2003								
13	0.015	0.057				5.77	83	21

Remark codes used in this table: < -- Less than E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

LOCATION.--Lat 46°12'35", long 96°11'05", in NE¹/₄ sec. 34, T.132 N., R.44 W., Otter Tail County, Hydrologic Unit 09020103, on left bank 0.7 mile downstream from Orwell Dam on County Highway 15, 6.1 miles downstream from Dayton Hollow Dam, 8 miles southwest of Fergus Falls, and 11.1 miles downstream from Pelican River.

DRAINAGE AREA .-- 1,740 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Spec cond tanc wat u uS/c 25 de (0009	uc- xe, unf xm g C	Tempe ature air, deg ((0002)	, ati wa C de	nper- ure, ater, g C 010)	Amm + org- wat unfl mg as (006	-N, Aı er, v trd /L N	nmoni water, fltrd, mg/L as N 00608)	a Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 12 26	1110 0900	489 370	20 6.0	9.9 10.5	8.6 8.5	398 409		19.4 10.8		0.0 5.3	0.8 0.8		0.050 0.050	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
		Dat	Orth pho phat wate fltr mg, e as (006	s- te, Ph er, pho d, wa L unf P mg	os- m- rus, N ter, wa ltrd c g/L 100	coli, TEC IF, ater, ol/) mL 633)	Feca coli form M-F 0.7u M col. 100 m (3162	- C MF / nL	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chlc phy phy plar tor acid ug/ (322	ll a to- ik- n, m, 'L	Suspnc sedi- ment, sieve diamet percen <.063m (70331	pe s r co t tr m r	Sus- ended sedi- nent ncen- ation ng/L 0154)		
		SEP 20 12 26	< 0.00			4k 5k	E10 E10		E5k E2k	21 13		92 89		10 7		

Remark codes used in this table:

< -- Less than E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

WATER-OUALITY DATA	WATER YEAR	OCTOBER 2001	THROUGH SEPTEMBER 2002
WITTER QUIETT I DITTIN		OC10DLR 2001	THROUGH SEI TEMBER 2002

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001	1500	270	1.0	10.0	0.2	100	10.0	11.0	0.00	-0.040		-0.050	-0.000
10 NOV	1500	370	1.0	10.9	8.3	423	10.0	11.8	0.69	< 0.040		< 0.050	< 0.008
08	0815	340	6.0	12.5	8.2	472	0.5	6.7	0.75	< 0.050	< 0.050	< 0.050	< 0.010
DEC 13	0900	489	0.0	14.5	8.0	500	-5.1	1.6	0.69	< 0.050	< 0.050	0.130	< 0.010
JAN 2002	0900	409	0.0	14.5	0.0	500	-5.1	1.0	0.09	<0.050	<0.050	0.150	<0.010
17	0920	518	0.0	14.0	8.0	479	-8.6	1.4	0.67	0.080	0.080	0.130	< 0.010
FEB 14	0900	488	0.0	10.6	7.8	474	1.5	2.0	0.74	0.090	0.110	0.130	< 0.010
MAR	1520	511	0.0	14.5	0.1	472	4.5	2.2	0.04	0.120	0.120	0.100	.0.010
18 APR	1520	511	0.0	14.5	8.1	473	-4.5	2.2	0.84	0.130	0.130	0.100	< 0.010
15	1715	663	3.0	12.4	8.0	422	24.5	8.8	0.71	< 0.050	< 0.050	0.050	< 0.010
MAY 15	1630	813	17	13.4	8.2	426	23.5	12.1	0.73	< 0.050	< 0.050	< 0.050	< 0.010
JUN	1050	015	17	13.4	0.2	420	23.3	12.1	0.75	<0.050	<0.050	<0.050	<0.010
05	1615	654	3.0	9.6	8.3	418	27.0	19.3	0.72	< 0.050	< 0.050	< 0.050	< 0.010
25 JUL	1345	568	6.0	8.7	8.3	410	37.5	24.0	0.96	0.100	0.120	0.060	< 0.010
11	0900	1,070	7.0	8.3	8.4	386		24.2	0.88	0.140	0.140	0.070	< 0.010
24	1530	635	21	8.0	8.1	395	20.7	24.8	0.98	0.130	0.130	< 0.050	< 0.010
AUG 07	1530	565	8.0	9.1	8.3	396	26.0	23.0	0.80	< 0.050	< 0.050	< 0.050	< 0.010
21	1300	668	6.0	9.0	8.3	393	23.4	21.0	0.65	<0.050	< 0.050	< 0.050	<0.010
SEP	1.600	(1)	10	0.0	0.0	202	27.2	22.0	0.77	0.050	0.050	0.050	0.010
11 23	1600 1530	614 418	$12 \\ 2.0$	9.0 10.0	8.3 8.4	392 406	27.3 15.0	23.0 16.6	0.66 0.65	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.010 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
10	< 0.02	< 0.06	E46k	E15k	E25k	6.43	86	5
NOV	0.007	0.007	59(1	F 4.01				_
08	< 0.005	0.037	E26k	E18k	52	16.6	94	5
DEC 13	0.007	0.041				10.3	96	2
JAN 2002	0.007	0.041				10.5	70	2
17	0.014	0.033				2.90	100	1
FEB								
14	0.006	0.033				4.97	94	3
MAR 18	0.009	0.037				5.66	93	2
APR	0.009	0.037				5.00	95	2
15	< 0.005	0.039	<2	<2	E17k	9.95	99	4
MAY								
15	< 0.005	0.047	E40k	E12k	E4k	9.68	99	9
JUN 05	0.007	0.020	-1	E01-	E1k	0.26	98	(
05 25	0.007	$0.029 \\ 0.081$	<1 E79k	E2k E35k	67	8.36 11.6	98 97	6 9
JUL	0.027	0.081	L/9K	LUJK	07	11.0	21	2
11	0.061	0.106	E17k	<7	405	5.71	98	14
24	0.047	0.102	<1	E2k	E3k	10.5	99	22
AUG								
07	0.032	0.091	<1	E4k	24	17.2	99	13
21 SEP	0.016	0.064	E1k	E5k	E14k	11.0	97	8
SEP 11	0.015	0.064	1k	1k	E14k	14.2	100	5
23	0.013	0.068	<2	E6k	E18k	14.1	94	5 9
		21000		_0M	0		2.	-

Remark codes used in this table: < -- Less than E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
09	1100	370	0.0	11.5	8.3	410	9.9	10.7	0.66	< 0.050	< 0.050	< 0.050	< 0.010
NOV													
05	1430	340	7.0	14.3	8.2	457	1.7	1.9	0.69	< 0.050	< 0.050	< 0.050	< 0.010
DEC	0945	360	0.0	14.7	8.1	467	0.0	1.5	0.88	0.070	0.070	0.140	< 0.010
11 JAN 2003	0945	300	0.0	14./	0.1	407	0.0	1.5	0.88	0.070	0.070	0.140	<0.010
15	1615	311	1.0	15.7	7.9	478	-15.0	1.5	0.69	< 0.050	< 0.050	0.190	< 0.010
FEB													
10	1735	340	0.0	14.8	7.9	496	-18.1	1.1	0.78	< 0.050	< 0.050	0.130	< 0.010
MAR	1620	116		14.0	7.0	160	10.1	6.0	1.0	0 1 40	0.1.40	0.150	0.010
24 APR	1630	446		14.3	7.8	463	13.1	6.0	1.0	0.140	0.140	0.150	< 0.010
14	1650	384	21	12.1	8.3	425	31.4	10.6		< 0.050	< 0.050	< 0.050	< 0.050
MAY	1050	501	21	12.1	0.5	120	51.1	10.0		0.000	20.050	20.000	10.000
19	1730	770	35	10.2	8.3	418	16.0	15.8	0.93	< 0.050	< 0.050	< 0.050	< 0.010
JUN													
02	1700	623	6.1	9.1	8.4	419	22.0	19.0	0.85	< 0.050	< 0.050	0.380	< 0.010
16	1700	556	16	8.6	8.4	409	27.3	22.9	0.78	< 0.050	< 0.050	< 0.050	< 0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002	· · · · ·							· /
09	0.005	0.037	<1	<4	1k	7.47	99	4
NOV								
05	< 0.005	0.034	13k	11k	5k	9.92	100	2
DEC	0.000	0.042				10.6	100	1
11 JAN 2003	0.009	0.042				12.6	100	1
15	0.009	0.038				3.39	100	2
FEB	0.007	0.050				5.57	100	-
10	< 0.005	0.037				12.1	95	2
MAR								
24	0.019	0.068				8.70	100	2
APR 14	< 0.005	0.042	E1k	<1	<1	12.9	97	5
MAY	<0.005	0.042	LIK	<1	<1	12.9	97	5
19	< 0.005	0.071	<4	<1	4k	12.6	99	16
JUN								
02	0.006	0.044	E2k	E1k	E1k	9.04	98	9
16	0.009	0.067	100k	28	68	9.04	96	6

Remark codes used in this table:

< -- Less than E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

LOCATION.--Lat 46°13'00", long 96°24'31", NW¹/₄ SW¹/₄ sec. 25, T. 132 N, R. 46 W., Wilkin County, Hydrologic Unit 09020103, 3.5 miles south of Everdell on Wilkin County Highway 17.

DRAINAGE AREA .-- 1,772 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

									Ammonia			Nitrite	
			Tur-		pH,	Specif.			+			+	
		Instan-	bidity,		water,	conduc-			org-N,	Ammonia	Ammonia	nitrate	Nitrite
		taneous	water,	Dis-	unfltrd	tance,	Temper-	Temper-	water,	water,	water,	water	water,
		dis-	unfltrd	solved	field,	wat unf	ature,	ature,	unfltrd	fltrd,	unfltrd	fltrd,	fltrd,
		charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs	NTU	mg/L	units	25 deg C	deg C	deg C	as N				
		(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
SEP 2001													
11	1400												
12	0910	490	22	8.0	8.4	416	16.5	18.0	0.87	< 0.050	< 0.050	< 0.050	< 0.010
17	1000												
23	0945												
25	1450	532	10	10.8	8.5	419	18.0	14.7	0.75	< 0.050	< 0.050	< 0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
SEP 2001								
11			*29k	*33k	*104			
12	< 0.005	0.107	110	140	84	26.2	15	
17			*200k	*130	*84			
23			*78	*86	*46			
25	< 0.005	0.049	31k	18k	4k	9.84	89	22

Remark codes used in this table:

< -- Less than

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			· ·		,				Ammonia			Nitrite	
			Tur-		pН,	Specif.			+			+	
		Instan- taneous	bidity, water,	Dis-	water, unfltrd	conduc- tance,	Temper-	Temper-	org-N, water,	Ammonia water,	Ammonia water,	nitrate water	Nitrite water,
		dis-	unfltrd	solved	field,	wat unf	ature,	ature,	unfltrd	fltrd,	unfltrd	fltrd,	fltrd,
D .	m.	charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs (00061)	NTU (61028)	mg/L (00300)	units (00400)	25 deg C (00095)	deg C (00020)	deg C (00010)	as N (00625)	as N (00608)	as N (00610)	as N (00631)	as N (00613)
OCT 2001		(00001)	(01020)	(00200)	(00100)	(000)0)	(00020)	(00010)	(00020)	(00000)	(00010)	(00001)	(00012)
02	1115												
10	1045												
10	1240	384	14	9.8	8.1	439	10.0	11.5	0.76	< 0.040		E.030	E.004
15 24	1000 0930												
29	0920												
NOV	0015												
05 07	0915 1400	440	3.0	12.7	8.2	489	 9.5	 6.8	0.71	< 0.050	0.270	< 0.050	< 0.010
DEC	1400	440	5.0	12.7	0.2	409	9.5	0.8	0.71	<0.050	0.270	<0.050	<0.010
12	1600	577	0.0	14.3	8.2	501	-2.8	0.7	0.72	0.050	0.050	0.130	< 0.010
JAN 2002 16	1715	481	13	13.1	8.1	485	-4.3	-0.3	0.77	0.080	0.090	0.140	< 0.010
FEB	1/15	401	15	13.1	0.1	465	-4.5	-0.5	0.77	0.080	0.090	0.140	<0.010
13	1630		15	11.4	7.8	474	9.9	0.8	0.65	0.080	0.090	0.120	< 0.010
MAR	0010	5(0)	10	10.0	0.0	175	5.2	0.0	0.60	0.120	0.120	0.160	.0.010
20 APR	0910	560	19	12.6	8.0	475	-5.3	0.2	0.68	0.120	0.120	0.160	< 0.010
17	1350	768	20	11.3	8.0	438	18.5	11.2	0.76	< 0.050	< 0.050	< 0.050	< 0.010
MAY	0010												
07 13	0810 0800												
15	1510	932	33	12.9	8.2	447	24.9	12.7	0.93	< 0.050	< 0.050	0.050	< 0.010
20	0840												
28 JUN	0830												
03	0920												
05	1415	742	17	9.7	8.3	430	25.9	19.0	0.81	< 0.050	< 0.050	< 0.050	< 0.010
10	0830												
17 26	0900 1400	 677	36	 8.6	8.2	420	31.0	25.6	0.86	<0.050	< 0.050	0.130	0.010
JUL		011	50	0.0	0.2	120	51.0	25.0	0.00	0.000	10.000	0.150	0.010
01	0930												
08 10	0930 1200	 1,340	180	 6.5	 8.1	360	18.2	23.5	 1.5	0.080	0.080	0.420	0.020
15	0930												
24	1415	706	28	7.6	8.0	418	27.5	23.9	0.84	0.070	0.060	0.160	0.020
30 AUG	0920												
05	0715												
07	1345	605	25	9.2	8.3	409	27.0	23.1	1.1	< 0.050	< 0.050	0.070	< 0.010
12	0750												
19 21	0750 1155	 707	30	 8.1	8.2	403	22.2	20.8	0.88	<0.050	< 0.050	< 0.050	<0.010
26	0850									<0.050			<0.010
SEP	0000												
03 09	0900 0910												
11	1440	690	25	 9.4	8.3	402	28.0	22.9	0.82	< 0.050	< 0.050	< 0.050	< 0.010
16	0810												
25 30	1205 0915	447	10	10.0	8.3	420	8.7	13.1	0.61	< 0.050	<0.050	< 0.050	< 0.010
50	0715												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002-Continued

ATEK-QUAI	JIII DAL	A, WAIEF	I LAK OU	IUDEK 2		JOH SEPT	ENIDER 20	02—Conti
	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
	(0000.0)	(00000)	(00000)	(0.0000)	(00000)	(* == = = =)	((00000)
OCT 2001								
02			*54k	*46k	*160			
10			*300	*210	*>10,000			
10	< 0.02	E.06	310	360	6,900	7.72	96	27
15			*61k	*70k	*120			
24			*56k	*15k	*63k			
29			*48k	*27k	*205			
NOV			* 71	*01	N 5 4			
05			*7k	*9k	*54			
07	< 0.005	0.035	15k	32k	54	14.0	94	7
DEC	0.005	0.040				10.6	00	0
12	0.005	0.040				10.6	90	8
JAN 2002	0.017	0.057				5.25	00	20
16	0.017	0.057				5.35	90	30
FEB	0.007	0.07				5.25	07	4.4
13	0.007	0.067				5.35	87	44
MAR	0.011	0.0(2				6.01	70	22
20	0.011	0.062				6.91	72	22
APR 17	< 0.005	0.075		52	9k	16.2	59	67
MAY	<0.003	0.075		32	98	16.3	39	07
MA Y 07			*16k	*2k	*16k			
13			*16k *6k	*2k *2k	*10k *19k			
15	< 0.005	0.080	<1	- 2k 6k	24	10.5	70	43
20			*8k	*14k	*16k			
20			*6k	*14k	*35k			
JUN			UK	12K	JJK			
03			*19k	*36k	*62			
05	0.011	0.076	20k	31	30	8.84	88	44
10			*33k	*63k	*76k			
17			*40k	*63k	*50k			
26	0.030	0.115	79k	57	40	9.09	85	58
JUL	0.020	01110	//1	0,		2.02	00	20
01			*88k	*54k	*197			
08			*1,600k	*1,100	*7,000			
10	0.108	0.402	4.000	1.400k	7,000	11.5	80	291
15			*83k	*94k	*440			
24	0.052	0.129	20k	51	115	7.96	76	60
30			*22k	*21k	*117k			
AUG								
05			*26k	*31k	*<10k			
07	0.032	0.110	46k	42	114k	12.8	88	39
12			*6k	*20k	*124			
19			*45k	*31k	*96			
21	0.018	0.106	16k	85	200	12.3	84	58
26			*45	*58	*125			
SEP								
03			*42	*40	*112			
09			*80	*58	*149			
11	0.022	0.086	25k	46	88	10.5	62	52
16			*66	*100	*112			
25	0.011	0.056	48k	48	97	10.2	88	14
30			*56	*80	*84			

Remark codes used in this table: < -- Less than E -- Estimated value > -- Greater than

Ammonia	Nitrite	
dis- unfltrd solved field, wat unf ature, ature, unfltrd fltrd, u charge, field, oxygen, std uS/cm air, water, mg/L mg/L Date Time cfs NTU mg/L units 25 deg C deg C as N as N	+ Ammonia nitrate Nitritt water, water water unfltrd fltrd, fltrd, mg/L mg/L mg/L as N as N as N (00610) (00631) (00613)	,
OCT 2002		
07 0830		
	<0.050 <0.050 <0.010)
15 0845		
21 1100		
28 0830		
NOV	-0.050 -0.050 -0.010	
05 1715 333 13 14.3 8.2 478 1.1 1.7 0.61 <0.050 <	<0.050 <0.050 <0.010)
	0.080 0.140 <0.010	`
11 0830 10 12.6 8.0 481 -3.0 -0.3 0.83 0.080 JAN 2003	0.080 0.140 <0.010	,
	0.080 0.190 <0.010)
FEB	0.000 0.170 <0.010	,
	0.080 0.150 <0.010)
MAR		
25 1500 593 11 8.2 474 7.9 6.0 0.92 0.120	0.120 0.160 <0.010)
APR		
	<0.050 <0.050 <0.010)
MAY		
07 0950		
12 0800		
20 0750		
	<0.050 <0.050 <0.010)
29 0820 JUN		
1015		
	<0.050 <0.050 <0.010)
05 1405 759 28 9.2 8.0 457 22.5 19.0 0.64 <0.050 <	<0.050 <0.050 <0.010	,
	<0.050 <0.050 <0.010)
23 0800		-

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003-Continued

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07			*E25k	*73	*200			
09	< 0.005	0.040	E23k	27	E16k	7.39	89	8
15			*10k	*30k	*40			
21			*20k	*E8k	*199			
28			*34k	*56	*60			
NOV								
05	0.008	0.041	22k	17k	8k	11.0	88	3
DEC								
11	< 0.005	0.036				12.6	83	6
JAN 2003								
16	0.012	0.052				7.48	34	22
FEB								
12	0.005	0.042				14.6	43	11
MAR								
25	0.012	0.089	<4k			5.94	66	25
APR	0.005	0.052	5.0	E (1	P (1	1.7.7	50	50
15	< 0.005	0.053	E4k	E4k	E6k	17.7	58	58
MAY 07			*E17k	*44	*E26k			
07 12			*E1/k *E8k	*E21k	*Е26к *Е31k			
12 20			*E8k *E8k	*E21k *E24k	*E31k *E33k			
20	0.006	0.084	E20k	E24k E7k	E27k	14.5	80	 41
21 29	0.000		*E13k	*E22k	*E5k	14.5	80	41
29 JUN			EISK	EZZK	·EJK			
02			*E14k	*E9k	*E20k			
03	0.007	0.074	<1	E18k	E45k	9.39	80	42
09	0.007	0.074	*E31k	*E31k	*44	9.39		
17	0.012	0.090	E40k	27	60	9.39	99	6
23			*E170k	*96	*405			
20			L 170 R	20	105			

Remark codes used in this table: < -- Less than E -- Estimated value

LOCATION.--Lat 46°15'42", long 96°32'45", SE¹/₄ NW¹/₄ sec. 11, T. 132 N, R. 47 W., Wilkin County, Hydrologic Unit 09020103, 1.5 miles east of Breckenridge on Wilkin County Highway 10.

DRAINAGE AREA.--1,848 mi2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001													
11	1330												
11	1520	564	32	9.7	8.4	412	25.0	20.0	0.77	< 0.050	< 0.050	< 0.050	< 0.010
17	0945												
23	0930												
25	1230	513	19	10.0	8.5	419	16.0	13.9	0.83	< 0.050	< 0.050	< 0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
SEP 2001 11 11 17 23 25	0.005 <0.005	0.086 0.066	*60k 50k *62k *51k 96	*34k 56 *48 *91 53k	*48 20k *70 *80 41k	13.6 13.9	 90 79	 56 46

Remark codes used in this table:

< -- Less than

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

									Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001	1045												
02 10	1043												
10	1215	468	35	9.7	8.2	412	10.5	12.2	0.97	< 0.040		E.030	< 0.008
15	0945												
24 29	$0845 \\ 0910$												
NOV	0910												
05	0900												
07 DEC	1115	411	4.0	11.4	8.2	489	9.8	6.3	0.69	< 0.050	0.390	< 0.050	< 0.010
12	1400	545	0.0	13.9	8.0	502	-0.4	2.3	0.75	< 0.050	< 0.050	0.140	< 0.010
JAN 2002													
16	1415		11	13.0	8.0	486	-2.0	-0.3	0.69	0.080	0.080	0.140	< 0.010
FEB 13	1530	488	2.0	11.2	7.9	482	8.5	-0.3	0.82	0.090	0.090	0.130	< 0.010
MAR													
20	1110	525	11	13.6	8.2	481	-2.0	0.1	0.81	0.120	0.120	0.160	< 0.010
APR 17	1050	729	31	10.3	8.0	442	10.8	11.7	0.99	< 0.050	< 0.050	< 0.050	< 0.010
MAY	1050	12)	51	10.5	0.0	442	10.0	11.7	0.77	L0.050	<0.050	<0.050	<0.010
07	0825												
13 15	0745 1225	 910	29	11.8	8.2	450	20.1	 11.7	0.95	<0.050	<0.050	0.070	<0.010
20	0915	910			0.2	430	20.1		0.95	<0.050	<0.050	0.070	<0.010
28	0915												
JUN 03	0900												
05	1205	751	35	8.3	8.4	434	23.5	18.7	0.92	< 0.050	< 0.050	< 0.050	< 0.010
10	0830												
17	0900												
26 JUL	1130	569	62	8.2	8.1	422	28.9	24.6	0.90	< 0.050	0.060	0.160	0.010
01	0910												
08	0910												
10 15	1420 0930	1,190	130	6.8	8.1	341	17.8	23.5	1.1	<0.050	0.060	0.400	0.020
24	1155	677	26	7.4	8.1	423	24.0	22.5	0.95	0.060	0.050	0.190	0.010
29	0845												
AUG 05	0845												
07	1130	604	26	8.6	8.3	412	28.7	21.7	0.98	< 0.050	< 0.050	< 0.050	< 0.010
12	0740												
19	0740							1					
20 26	1730 0840	510	21	9.1	8.2	410	23.0	20.1	0.76	<0.050	<0.050	<0.050	<0.010
SEP													
03	0850												
09 11	0840 1225	 667	36	 8.5	8.5	405	27.0	21.4	0.71	<0.050	< 0.050	0.060	<0.010
16	0745					405				<0.050	<0.050		<0.010
24	1700	544	10	10.5	8.3	418	18.8	14.4	0.67	< 0.050	0.050	< 0.050	< 0.010
30	0845												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002-Continued

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
OCT 2001								
02			*240	*110	*320			
10			*310	*250	*>10,000			
10	< 0.02	0.09	380k	380	2780	7.17	88	58
15			*61k	*47k	*190			
24 29			*46k *221-	*12k	*54k *100			
29 NOV			*23k	*13k	*100			
05			*27k	*5k	*66			
05	< 0.005	0.037	11k	15k	43k	12.3	82	11
DEC	<0.005	0.037	IIK	IJK	4JK	12.5	62	11
12	< 0.005	0.046				9.24	80	17
JAN 2002	<0.005	0.040).2 4	00	17
16	0.012	0.055				3.76	78	18
FEB	0.012	01000				21/0	70	10
13	0.008	0.055				6.62	83	30
MAR								
20	0.011	0.062				6.11	73	35
APR								
17	< 0.005	0.094	25k	56k	5k	18.5	83	64
MAY								
07			*9k	*4k	*20k			
13			*2k	*10k	*67			
15	< 0.005	0.099	6k	12k	37k	12.3	64	79
20			*13k	*15k	*30k			
28			*9k	*20k	*40			
JUN			*201-	*()	*151			
03 05	0.009	0.091	*30k 10k	*62 47	*151 59	13.2	84	 62
10			*44k	*61k	*116			
10			*15k	*40k	*94k			
26	0.032	0.130	130k	100	74	11.2	87	83
JUL	0.052	0.150	150K	100	74	11.2	07	05
01			*100k	*80	*192			
08			*650	*590	*3300			
10	0.101	0.420	1,200	1,300k	11,600k	10.1	84	298
15			*67k	*74k	*433			
24	0.049	0.158	67	61	180	11.9	84	83
29			*61k	*40k	*79k			
AUG								
05			*72	*38	*<10k			
07	0.029	0.115	17k	31	90	16.6	89	57
12			*54k	*47k	*108			
19			*27k	*45k	*66k			
20	0.018	0.093	E1k	17k	76 *116	10.6	86	53
26 SEP			*48k	*82	*116			
03			*34k	*92	*192			
03 09			*34k *40k	*62	*192 *223			
11	0.019	0.105	28k	32k	116	6.11	84	65
16		0.105	*48k	*85	*87			
24	0.012	0.066	<2k	42	54	9.91	83	31
30			*93	*120	*139			
					>			

Remark codes used in this table: < -- Less than E -- Estimated value > -- Greater than

			The going		,	It I Lint O	CTODER 2	.002 1111(0	CONDE	I LIVID LIC 2	005		
		Ŧ	Tur-		pH,	Specif.			Ammonia +			Nitrite	N 71. 1.
		Instan-	bidity,		water,	conduc-	-	-	org-N,	Ammonia		nitrate	Nitrite
		taneous	water,	Dis-	unfltrd	tance,	Temper-	Temper-	water,	water,	water,	water	water,
		dis-	unfltrd	solved	field,	wat unf	ature,	ature,	unfltrd	fltrd,	unfltrd	fltrd,	fltrd,
		charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs	NTU	mg/L	units	25 deg C	deg C	deg C	as N	as N	as N	as N	as N
		(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
OCT 2002													
07	0815												
07	1505	387	5.0	10.9	8.2	442	11.6	10.8	0.62	< 0.050	< 0.050	< 0.050	< 0.010
15	0815		5.0										
21	1020												
28 NOV	0810												
06	1230	323	0.0	13.9	8.1	481	5.0	1.8	0.67	< 0.050	< 0.050	< 0.050	< 0.010
DEC	1250	525	0.0	15.9	0.1	461	5.0	1.6	0.07	<0.050	<0.050	<0.030	<0.010
10	1615		2.0	13.6	8.3	474	8.5	-0.3	0.86	< 0.050	0.110	0.120	< 0.010
JAN 2003	1015		2.0	15.0	0.5	4/4	8.5	-0.5	0.80	<0.050	0.110	0.120	<0.010
15	1435	321	5.0	14.7	7.6	501	-13.0	-0.3	0.89	0.070	0.070	0.160	< 0.010
FEB	1455	321	5.0	14.7	7.0	501	-13.0	-0.5	0.89	0.070	0.070	0.100	<0.010
12	1330	329	10	12.8	7.2	510	-10.5	-0.3	0.77	0.060	0.060	0.150	< 0.010
MAR	1550	52)	10	12.0	7.2	510	10.5	0.5	0.77	0.000	0.000	0.120	\$0.010
25	1105	569	17		7.7	478	9.6	5.7	1.1	0.120	0.140	0.180	< 0.010
APR	1100	2007	17				210	017		0.1120	011.10	01100	101010
15	1145	431	29	9.9	8.3	444	17.0	12.3	0.81	< 0.050	< 0.050	< 0.050	< 0.010
MAY	11.10	101	_/		0.0		1710	1210	0.01	101020	101020	101020	101010
07	0930												
12	0800												
20	0740												
21	1230	753	47	9.3	8.3	455	23.0	14.5	0.93	< 0.050	< 0.050	0.060	< 0.010
29	0810												
JUN													
02	1243												
03	1150	729	30	8.3	8.2	436	20.0	18.0	0.88	< 0.050	< 0.050	< 0.050	< 0.010
09	0745												
17	1215	648	45	7.2	8.0	436	25.0	23.0	0.98	< 0.050	< 0.050	< 0.050	< 0.010
23	0800												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003-Continued

		,						
Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07			*88	*74	*310			
08	0.005	0.049	64	62	13k	6.07	88	17
15			*33k	*46	*77			
21			*23k	*46	*28k			
28			*9k	*12k	*72			
NOV			·9K	· 12K	.72			
NOV 06	-0.005	0.020	01-			0.26	84	9
	< 0.005	0.039	8k			8.36	84	9
DEC	0.005	0.040					60	10
10	< 0.005	0.043				13.2	60	13
JAN 2003								
15	0.011	0.016				8.02	92	15
FEB								
12	< 0.005	0.052				16.6	48	114
MAR								
25	0.012	0.105				18.2	49	63
APR								
15	< 0.005	0.073	12k	18k	11k	14.9	74	41
MAY	20.000	0.075	120	TOR	IIK	11.9	, ,	11
07			*E8k	*88	*E34k			
12			*E20k	*E25k	*68			
20			*E18k	*E24k	*100			
20	0.006	0.090	E7k	E37k	E31k	13.9	64	63
29			*E24k	*E21k	*E26k			
JUN			*50.41	** 4.4	** 1 6			
02			*E24k	*44	*46			
03	0.005	0.089	<1k	40	49	12.9	82	56
09			*E37k	*64	*60			
17	0.009	0.207	E140k	64	76	12.9	80	49
23			*240	*200	*395			

Remark codes used in this table: < -- Less than E -- Estimated value

LOCATION.--Lat 46°16'28", long 96°34' 47" in NE¹/₄ SE¹/₄ sec. 4, T. 132 N., R. 47 W. Wilkin County, Hydrologic Unit 9020103, on upstream left bank of 11th Street Bridge in Breckenridge, MN.

DRAINAGE AREA.--1,991 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

GAGE.--Water stage recorder. Datum of gage is 966.73 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded daily discharge 1,660 ft³/s July 12, 2002, minimum daily discharge (estimated) 245 ft³/s Mar. 13, 2003.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												e635
7												662
8												649
9												640
10												640
11												681
12												713
13												715
14												720
15												715
16												695
17												695
18												716
19												723
20												728
21												706
$\frac{21}{22}$												694
22												692
24												692
25												689
26												596
27												521
28												544
29												580
30												579
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	605	e510	e580	e500	e460	689	847	842	750	735	679
2	612	614	e525	e585	e480	e490	655	829	840	681	715	673
3	624	601	e528	e582	e465	e505	642	824	839	652	670	663
4	557	590	e530	e580	e475	e495	639	801	819	646	647	718
5	527	584	e530	e575	e480	e480	637	805	780	641	641	738
6	526	581	e530	e555	e485	e470	645	801	774	634	642	735
7	524	580	e535	e550	e492	e460	655	775	756	646	641	754
8	516	547	e545	e548	e500	e480	711	848	735	730	644	762
9	515	519	e545	e548	e500	e500	664	1,000	720	936	638	763
10	572	516	e545	e545	e500	e500	658	974	726	1,150	655	775
11	560	517	e555	e543	e500	e510	669	976	741	1,530	648	765
12	595	515	e560	e545	e520	e525	786	1,010	740	1,660	643	730
13	641	516	e560	e550	e540	e545	786	1,000	753	1,500	617	653
14	647	515	e560	e555	e550	e570	710	989	761	1,320	608	624
15	650	513	e560	e565	e540	e590	708	993	760	1,230	587	622
16	648	514	e560	e573	e530	e610	806	926	762	1,070	573	613
17	645	512	e560	e570	e520	e610	842	898	770	942	575	582
18	609	509	e565	e565	e510	e610	848	948	773	891	575	568
19	580	511	e565	e560	e510	e610	847	963	786	855	573	561
20	572	513	e575	e550	e510	e607	845	958	744	841	574	532
21	573	546	e580	e540	e510	e600	843	916	722	833	703	516
22	575	563	e550	e525	e510	e595	846	863	751	824	756	516
23	572	562	e540	e518	e510	e580	812	848	798	812	756	515
24	573	561	e525	e510	e510	e570	784	854	796	768	646	514
25	593	570	e522	e513	e512	565	791	848	794	742	606	481
26 27 28 29 30 31	587 581 575 581 585 585	564 e545 e530 e500 e495	e515 e505 e505 e525 e550 e570	e520 e530 e535 e530 e525 e515	e515 e510 e490 	565 576 660 685 714 698	768 767 774 791 863	850 849 846 984 908 854	817 821 786 765 754	683 733 765 765 758 764	427 271 301 434 469 635	474 419 413 434 435
TOTAL	18,082	16,308	16,825	16,985	$14,174 \\ 506 \\ 550 \\ 465 \\ 28,110$	17,435	22,481	27,785	23,225	27,752	18,605	18,227
MEAN	583	544	543	548		562	749	896	774	895	600	608
MAX	650	614	580	585		714	863	1,010	842	1,660	756	775
MIN	515	495	505	510		460	637	775	720	634	271	413
AC-FT	35,870	32,350	33,370	33,690		34,580	44,590	55,110	46,070	55,050	36,900	36,150

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					Dim		THEOLD					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	388	e379	e379	e379	e340	446	690	740			
2	435	368	e377	e380	e375	e340	438	687	738			
3	437	364	e375	e381	e365	e340	408	663	738			
4	454	368	e373	e385	e345	e341	398	649	711			
5	451	362	e373	e385	e365	e341	453	661	704			
5	431	302	6371	6367	6303	6341	455	001	704			
6	471	362	e372	e391	e380	e340	489	706	712			
7	469	363	e373	e394	e370	e340	487	766	724			
8	456	362	e373	e398	e360	e341	488	780	715			
9	454	363	e374	e400	e355	e340	488	741	710			
9 10	453	362	e374	e399	e355	e340	488	787	720			
11	445	372	e374	e402	e355	e313	489	808	712			
11	443											
		363	e375	e403	e363	e256	491	802	679			
13	444	362	e375	e399	e370	e245	487	888	661			
14	438	e363	e374	e370	e372	e330	486	951	657			
15	437	e359	e377	e344	e371	e450	492	939	658			
16	439	e351	e385	e320	e368	e600	532	858	657			
17	441	e345	e395	e310	e363	e650	606	892	665			
18	442	e338	e394	e310	e360	e630	697	912	656			
19	437	e333	e393	e309	e352	e600	803	937	655			
20	438	e324	e392	e320	e345	858	797	943	653			
21	441	e390	e394	e332	e345	982	734	875	653			
22	434	e412	e393	e342	e344	1,130	780	847	717			
23	434	e407	e395	e345	e343	1,100	789	837	731			
24	431	e399	e394	e345	e345	625	778	836	919			
25	428	e400	e392	e345	e341	613	772	832	1,330			
26	426	e397	e390	e345	e339	608	770	824	1,420			
20	425	e392	e383	e345	e340	608	767	818	1,250			
28	424	e380	e371	e355	e340	600	767	818	1,040			
20	420	e377	e359	e365		514	765	783	1,040			
30	420	e379	e368	e305 e375		482	705	735	933			
30	384											
51	384		e374	e379		480		746				
TOTAL	13,581	11,105	11,788	11,254	10,005	16,077	18,100	25,011	23,868			
MEAN	438	370	380	363	357	519	603	807	796			
MAX	471	412	395	403	380	1,130	803	951	1,420			
MIN	384	324	359	309	339	245	398	649	653			
AC-FT	26,940	22,030	23,380	22,320	19,840	31,890	35,900	49,610	47,340			
-		,,	- / /	,	- /	- ,	,					

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

									Ammonia			Nitrite	
			Tur-		pH,	Specif.			+			. +	
		Instan-	bidity,	D:-	water,	conduc-	T	T	org-N,	Ammonia		nitrate	Nitrite
		taneous dis-	water, unfltrd	Dis- solved	unfltrd field,	tance, wat unf	Temper- ature,	Temper- ature,	water, unfltrd	water, fltrd,	water, unfltrd	water fltrd,	water, fltrd,
		charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs	NTU	mg/L	units	25 degC	deg C	deg C	as N	as N	as N	as N	as N
		(00061)	(61028)	$(00\bar{3}00)$	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
SEP 2001													
11	1215	713	38	9.0	8.5	412	22.5	18.8	0.79	< 0.050	< 0.050	< 0.050	< 0.010
11	1300												
17	0930												
23	0900												
25	1020	696	18	9.7	8.5	418	13.1	13.8	0.77	< 0.050	< 0.050	< 0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	
SEP 2001	(,	(/	()	(/	()	(-)	(,	()	
11	< 0.005	0.093	80	80k	28k	15.2	95	60	
11			*30	*38	*95				
17			*150k	*74k	*64				
23			*100	*85k	*120				
25	< 0.005	0.070	120	140	92	12.8	95	40	

Remark codes used in this table: < -- Less than

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			_			~			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001	1015												
02 10	1015 1030	 570	28	 9.6	8.2	424	 11.0	12.4	0.72	< 0.040		E.030	<0.008
10	1030			9.0						<0.040			<0.008
15	0930												
24	0810												
29 NOV	0900												
05	0845												
07	0850	608	6.0	11.5	8.4	482	8.3	6.2	0.87	< 0.050	< 0.050	< 0.050	< 0.010
DEC	1105		0.4	12.0	0.1	502	0.0	0.2	0.60	.0.050	.0.050	0.1.40	.0.010
12 JAN 2002	1105		8.4	12.9	8.1	503	-0.9	-0.3	0.68	< 0.050	< 0.050	0.140	< 0.010
16	1245	528	14		8.1	492	-1.8	-0.3	0.72	0.080	0.080	0.140	< 0.010
FEB													
13 MAR	1245	499	2.0	11.5	7.9	480	7.0	-0.3	0.77	0.070	0.080	0.120	< 0.010
20	1320	607	11	14.0	8.2	482	-2.8	0.5	0.79	0.120	0.120	0.170	< 0.010
APR													
17	1050	837	49	9.8	8.2	436	9.0	13.0	0.94	< 0.050	< 0.050	< 0.050	< 0.010
MAY 07	0840												
13	0730												
15	0955	1,000	35	11.5	8.2	453	14.5	12.2	1.1	< 0.050	< 0.050	0.080	< 0.010
20	0930												
28 JUN	0930												
03	0830												
05	0945	793	45	8.0	8.3	434	20.0	19.0	0.88	< 0.050	< 0.050	< 0.050	< 0.010
10	0830												
17 26	0900 0850	 829	65	 7.1	8.3	420	24.5	25.1	 1.1	<0.050	< 0.050	0.130	<0.010
JUL	0050	02)	05	/.1	0.5	120	21.5	20.1	1.1	\$0.000	20.050	0.150	\$0.010
01	0900												
10 15	1635 0830	1,210	140	6.3	8.1	338	18.8	22.9	1.6	0.050	0.060	0.390	0.020
13	0830												
24	0930	754	31	7.3	8.1	422	20.5	22.5	0.99	< 0.050	< 0.050	0.180	0.010
29	0830												
AUG 05	0830												
07	0830	636	33	8.1	8.4	410	22.8	21.1	0.90	< 0.050	< 0.050	< 0.050	< 0.010
12	0730												
19	0730												
21 26	0940 0830	694 	50	7.8	8.2	386	22.5	20.4	0.86	<0.050	<0.050	<0.050	<0.010
SEP 20	0850												
03	0840												
09	0830												
11 16	0955 0730	812	36	8.0	8.3	405	19.9	21.3	0.83	<0.050	<0.050	0.050	<0.010
25	0940	477	16	9.8	8.5	418	7.1	13.0	0.64	< 0.050	0.050	< 0.050	< 0.010
30	0830												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002-Continued

ATEK-QUAI	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
OCT 2001								
02			*260	*130	*310			
10	< 0.02	E.06	360	670	1,170	6.14	95	42
10			*600k	*1,700	*>10,000			
15			*76k	*41k	*120			
24			*39k	*16k	*48k			
29			*11k	*20k	*76			
NOV			*201	\$1.51	¥114			
05		0.029	*20k	*15k	*114	10.5		
07	< 0.005	0.038	10k	6k	56k	10.5	85	12
DEC	-0.005	0.054				9.99	97	21
12 JAN 2002	< 0.005	0.054				9.99	86	21
JAN 2002 16	0.013	0.044				3.45	90	23
FEB	0.015	0.044				5.45	90	25
гев 13	0.008	0.049				4.15		
MAR	0.008	0.049				4.15		
20	0.011	0.065				5.07	93	26
APR 20	0.011	0.005				5.07	95	20
17	< 0.005	0.119	20k	10k	50	19.9	89	81
MAY	<0.005	0.117	201	TOK	50	1).)	0)	01
07			*9k	*4k	*13k			
13			*13k	*20k	*89			
15	< 0.005	0.101	17k	51k	42	10.8	67	153
20			*15k	*15k	*34k			
28			*20k	*13k	*61k			
JUN								
03			*20k	*56	*165			
05	0.011	0.098	36k	53	71	10.7	92	72
10			*25k	*62k	*132			
17			*E130k	*63k	*148			
26	0.028	0.140	200k	100	200	14.1	97	89
JUL								
01			*E43	*110	*253			
10	0.108	0.425	2,900	>6,000	9,800	16.0	87	274
15			*42k	*120k	*606			
18			*990	*150k	*500			
24	0.048	0.154	10k	23	215	9.69	92	82
29			*58k	*84k	*139k			
AUG			*50	*47	* .1.01			
05			*53	• •	*<10k	10.0		
07	0.025	0.119	37 *291-	25 *221-	209	19.2	95	57
12 19			*28k *49k	*32k *23k	*104			
21		0.140	420		*116			
21	0.018	0.140	*51k	420 *50	660 *144	15.0	91	96
SEP			· JIK	- 50	144			
03			*44k	*92	*207			
05			*26k	*60k	*320			
11	0.020	0.115	28k	21k	142	11.7	89	80
16	0.020		*31k	*60	*112			
25	0.012	0.072	41	140	112	9.59	95	30
30			*52	*140	*145			
				1.0	1.0			

Remark codes used in this table: < -- Less than E -- Estimated value > -- Greater than

			T			G			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
07	0800												
08	1710	477	5.0	10.8	8.2	453	9.3	11.0	0.69	< 0.050	< 0.050	< 0.050	< 0.010
15	$ 0800 \\ 1015 $												
21 28	0800												
NOV	0800												
06	0955	359	0.0	14.0	8.0	485	1.0	0.7	0.66	< 0.050	< 0.050	< 0.050	< 0.010
JAN 2003													
15	1045	344	30	13.7	7.2	439	-17.0	0.3	0.77	0.160	0.160	0.120	< 0.010
FEB	1605	214	2.4	12.0	7.0	510	7.0	0.2	0.00	0.000	0.070	0.150	.0.010
12 MAR	1625	314	3.4	12.9	7.9	510	-7.0	-0.3	0.88	0.060	0.060	0.150	< 0.010
25	0955	587	20		7.9	480	9.6	6.0	1.2	0.120	0.170	0.170	< 0.010
APR	0700	201	20			100	210	0.0		01120	01170	01170	101010
15	0935	467	35	9.5	8.5	445	9.4	11.8	0.81	< 0.050	< 0.050	< 0.050	< 0.010
MAY													
07	0745												
12 20	0800 0730												
20 21	1440	888	40	 9.8	8.2	475	24.5	16.0	0.89	< 0.050	< 0.050	0.070	< 0.010
28	0800						24.5			<0.050	<0.050		<0.010
JUN	0000												
02	1100												
03	0935	767	38	7.8	8.3	437	16.5	17.4	0.96	< 0.050	< 0.050	< 0.050	< 0.010
09	0730						5						
17 23	1000 0800	714	48	6.9	8.1	436	22.5	23.6	1.0	< 0.050	< 0.050	< 0.050	< 0.010
23	0800												

WATER-QUALITY DATA.	WATER YEAR OF	TOBER 2002 THROUG	H SEPTEMBER 2003
witten generit bittin	minute i bine oc	STODER 2002 TIMOUU	II ODI I DIMDER 2005

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07			*110	*99	*400			
08	0.006	0.052	42k	68	38	6.81	84	23
15			*32k	*46	*88			
21			*60k	*48	*29k			
28			*80	*E31k	*E38k			
NOV	0.026	0.027	1.51	1.41	1.01	0.65	00	-
06	0.036	0.037	17k	14k	19k	8.65	92	7
JAN 2003 15	0.012	0.049				7.28	91	9
FEB	0.012	0.049				1.28	91	9
12	< 0.005	0.050				17.0	94	7
MAR	<0.005	0.050				17.0	<i></i>	,
25	0.062	0.134				16.2	93	58
APR								
15	< 0.005	0.084	E16k	E12k	E15k	12.5	91	47
MAY								
07			*8k	*E31k	*62			
12			*E36k	*E34k	*111			
20			*E10k	*E40k	*137			
21	0.006	0.087	E21k	E18k	E25k	13.4	86	45
28			*E16k	*E24k	*50			
JUN 02			*44	*E31k	*84			
02	0.005	0.154	E24k	E22k	67	15.1	 64	121
05	0.005	0.134	*E42k	Е22к *E41k	*69			121
17	0.010	0.128	E130k	160	196	15.1	90	82
23			*230	*210	*478			
20	-	-	250	210	470		-	-

Remark codes used in this table: < -- Less than E -- Estimated value

LOCATION.--Lat 45°53'15", long 96°12'48", NW¹/₄ NW¹/₄ sec. 21, T. 130 N, R. 45 W., Grant County, Hydrologic Unit 9020102, 1 mile northwest of Norcross on Minnesota Highway 9.

DRAINAGE AREA .-- 181 mi².

WATER-QUALITY RECORDS.

PERIOD OF RECORD.--September 2001 through September 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

			т			G 'C			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 10 24	1515 1500	 12	52 40	9.1 10.4	8.4 8.3	1,460 1,560	23.0 16.0	21.2 16.1	 1.5	0.060	0.070	0.330	0.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
SEP 2001 10 24	0.195	0.220	E800k 250	440 450	373 277	9.95	 96	43

Remark codes used in this table:

E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001 09	1325	6.5	36	11.9	8.2	1,610	19.5	10.4	1.5	< 0.040		< 0.050	< 0.008
NOV	1525	0.5	30	11.9	0.2	1,010	19.5	10.4	1.5	<0.040		<0.030	<0.008
05 DEC	1500	12	18	13.1	8.1	1,720	25.0	10.6	1.5	< 0.050	< 0.050	< 0.050	< 0.010
11	1130	18	0.0	12.9	7.9	1,800	4.3	-0.2	1.2	0.080	0.090	0.630	< 0.010
JAN 2002 15	1300	12	13	12.5	7.8	2,340	-7.6	-0.3	1.7	< 0.050	< 0.050	0.390	< 0.010
FEB 12	1245	9.6	7.8	11.1	7.8	2,270	-5.7	-0.3	1.8	< 0.050	< 0.050	0.190	< 0.010
MAR							10.0			0.4.60	0.4.60		0.010
19 APR	1130	14	4.0	11.1	7.7	1,270	-10.0	-0.3	1.5	0.160	0.160	0.780	0.010
16	1315	38	47	12.0	8.0	1,200	29.8	16.9	1.6	< 0.050	< 0.050	0.260	0.010
MAY 14	1245	96	60	12.0	8.0	1.590	18.5	11.5	2.2	< 0.050	0.070		0.030
JUN						,							
04	1235	25	100	8.1	8.2	1,600	19.5	17.0	2.1	0.120	0.120	0.140	0.020
25 JUL	0940	7.1	98	5.4	7.8	1,580	28.8	25.4	2.2	0.170	0.180	0.400	0.110
09	1445	228	120	5.5	8.0	1.080	32.5	26.5	2.2	0.110	0.120	0.650	0.060
23	1250	205	19	5.9	7.6	1,200	20.4	22.4	1.8	0.050	< 0.050	0.130	0.020
AUG	1025	(2)	01	7.4	0.1	1 200	22.5	20.2	26	.0.050	.0.050	0.100	-0.010
06 20	1235 1125	63 31	91 54	7.4 8.0	8.1 8.1	$1,280 \\ 1,280$	22.5 24.0	20.2 19.4	2.6 1.7	<0.050 <0.050	<0.050 <0.050	$0.100 \\ 0.060$	<0.010 <0.010
SEP	1120	51	54	0.0	0.1	1,200	24.0	17.7	1.7	.0.050	10.050	0.000	\$0.010
10 24	1210 1345	14 4.4	61 22	8.3 14.0	8.1 8.4	$1,340 \\ 1,430$	22.1 17.0	20.9 10.6	1.7 1.1	0.080 <0.050	0.150 <0.050	0.320 <0.050	0.020 <0.010
				- 110		2,100	110	2.010					

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
09	0.07	0.18	240	330	274	29.3	100	33
NOV 05	< 0.005	0.114	E18k	E11k	E34k	42.5	97	45
DEC	<0.005	0.114	EIOK	EIIK	Е34К	42.3	97	43
11	0.020	0.081				10.2	100	6
JAN 2002								
15 FEB	< 0.005	0.090				32.4	62	66
г <u>ев</u> 12	< 0.005	0.108				50.9	65	28
MAR								
19	0.098	0.211				18.0	88	11
APR 16	0.018	0.191	130k	200	120	62.2	96	40
MAY	0.018	0.191	130K	200	120	02.2	90	40
14	0.048	0.224	E5k	26k	60k	17.2	95	94
JUN								
04	0.041	0.258	1k	110	88	32.9	100	99
25 JUL	0.120	0.310	480k	430	330	15.5	99	79
09	0.207	0.532	1.400k	1,900k	6,900	42.2	94	168
23	0.332	0.521	40k	47k	362	23.1	88	72
AUG								
06	0.144	0.477	100k	120	315	63.5	98	161
20	0.096	0.287	60k	150	276	34.1	98	80
SEP	0.156	0.214	5 40	410	207	22.0	09	97
10 24	0.156 0.090	0.314 0.135	540 130k	410 57	296 50	22.9 4.78	98 99	86 5
24	0.090	0.155	130K	57	50	4.70	77	5

Remark codes used in this table: < -- Less than E -- Estimated value

			T			G			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
08 NOV	1015	15	33	10.5	8.2	1,440	10.1	7.9	1.4	< 0.050	< 0.050	0.170	< 0.010
NOV 05	1010	16	12	13.6	8.0	1,700	2.5	0.1	1.2	< 0.050	< 0.050	0.250	< 0.010
DEC						<i>,</i>							
10	1105	13	0.0	14.0	7.9	1,990	8.5	-0.3	1.4	0.070		0.280	< 0.010
JAN 2003 14	1120	2.7	26	13.9	7.4	2,300	17.0	-0.4	1.4	0.230	0.230	0.430	< 0.010
FEB						_,							
11	1300	5.8	1.7	14.8	7.3	2,570	-10.1	-0.4	1.6	0.120	0.120	0.290	< 0.010
MAR 26	0910	8.3	11		7.7	784	5.8	-0.7	1.7	0.530	0.530	0.400	0.010
APR	0710	0.5	11		1.1	704	5.0	-0.7	1.7	0.550	0.550	0.400	0.010
16	0910	25	100	9.8	8.0	1,440	1.2	8.0	1.8	0.100	0.100	< 0.050	< 0.010
MAY	1005		120	10.0	0.0	1 (00	11.5	10.0	1.0	0.050	0.070	0.450	0.000
20 JUN	1225	44	130	10.0	8.2	1,600	11.5	12.8	1.9	0.050	0.070	0.450	0.020
04	0910	19	95	7.4	8.1	1.640	19.5	17.1	1.9	0.130	0.150	0.100	0.010
18	0855	16	120	5.6	8.0	1,640	22.0	22.8	2.5	0.120	0.120	0.150	0.020
JUL	0950	126	150	()		1 220	17.0	21.2	1.0	.0.050	.0.050	0.100	0.010
10 22	$ 0850 \\ 0805 $	136 56	150 130	6.9 6.9	7.7 8.0	$1,320 \\ 1,400$	17.0 19.9	21.2 22.2	$1.9 \\ 2.0$	<0.050 <0.050	<0.050 <0.050	$0.180 \\ 0.100$	0.010 <0.010
AUG	0005	50	150	0.7	0.0	1,400	1).)	22.2	2.0	<0.050	<0.050	0.100	<0.010
05	1510	20	58	8.5	8.3	1,450	32.0	26.5	1.7	< 0.050	< 0.050	0.060	< 0.010
19	1705	5.8	20	10.1	8.3	1,480	24.9	31.2	1.5	< 0.050	< 0.050	< 0.050	< 0.010
SEP 04	0855	0.22	12	7.8	7.8	1,670	13.4	14.8	1.4	< 0.050	< 0.050	< 0.050	<0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
08 NOV	0.103	0.234	170k	560	107	24.7	100	58
05	< 0.005	0.079	E1k	14k	16k	25.2	97	66
DEC	-0.005	0.040				0.270	86	112
10 JAN 2003	< 0.005	0.049				0.270	80	112
14	< 0.005	0.044				7.20	54	269
FEB	0.005	0.070					41	145
11 MAR	< 0.005	0.072					41	145
26	0.107	0.160				7.96	94	8
APR								
16 MAY	0.022	0.242	E93k	140	342	46.8	97	90
20	0.031	0.194	E60k	E31k	E27k	27.6	98	99
JUN								
04	0.047	0.218	270	350	257	32.9	100	112
18 JUL	0.030	0.247	E470k	590	620		100	110
10	0.262	0.434	E94k	130	330	2.14	90	118
22	0.168	0.368		260	323	27.8	96	134
AUG								
05	0.168	0.315	67k	120	208	49.8	99	89
19 SEP	0.120	0.194	500	490	570	7.10	97	18
04	0.029	0.093	820	720	826	5.09	98	25

Remark codes used in this table:

< -- Less than E -- Estimated value

LOCATION.--Lat 45°49'15", long 96°29'25", SW¹/₄ SW¹/₄ sec. 8, T. 127 N., R. 46 W., Traverse County, Hydrologic Unit 9020102, 0.5 mi north of Wheaton on U.S. Highway 75.

DRAINAGE AREA .-- 812 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- September 2001 to September 2003.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE: December 2001 to September 2003. SPECIFIC CONDUCTANCE: December 2001 to September 2003. PH: December 2001 to September 2003. DISSOLVED OXYGEN: February 2002 to September 2003. TURBIDITY: December 2001 to September 2003.

INSTRUMENTATION .-- Water-quality monitor.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum recorded, 30.5°C, June 25, 2002; minimum recorded, 0°C, on many days during winter months. SPECIFIC CONDUCTANCE: Maximum recorded, 2,400 microsiemens, December 28, 2002; minimum recorded, 282 microsiemens, July 11, 2002. PH: Maximum recorded, 8.8 units, April 27-30, 2003, May 1-6, 2003, and May 12, 2003; minimum recorded, 7.2 units, July 12, 2002. DISSOLVED OXYGEN: Maximum recorded, 29.4 mg/L, January 11, 2003; minimum recorded, 1.5 mg/L, October 3, 2002. TURBIDITY: Maximum recorded, 1,100 NTU's, July 8, 2002; minimum recorded, 4.0 NTU's, January 1, 2003, and January 5-12, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

									Ammonia			Nitrite	
			Tur-		pH,	Specif.			+			+	
		Instan-	bidity,		water,	conduc-			org-N,	Ammonia	Ammonia	nitrate	Nitrite
		taneous	water,	Dis-	unfltrd	tance,	Temper-	Temper-	water,	water,	water,	water	water,
		dis-	unfltrd	solved	field,	wat unf	ature,	ature,	unfltrd	fltrd,	unfltrd	fltrd,	fltrd,
		charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs	NTU	mg/L	units	25 degC	deg C	deg C	as N				
		(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
SEP 2001													
10	1430	23	35	9.6	8.3	1,350	21.0	17.9					
24	1330	24	26	11.6	8.6	1,360	16.0	13.2	1.5	< 0.050	< 0.050	< 0.050	< 0.010
			0					1 (11)	G	1 0			

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
CED 2001								
SEP 2001			500	5.00	0.501		00	10
10			500	560	253k		98	43
24	0.088	0.170	140	150	160	20.5	95	85

Remark codes used in this table:

< -- Less than

Value qualifier codes used in this table:

k -- Counts outside acceptable range

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001 09	1500	19	44	9.9	8.1	1,530	20.5	10.5	1.4	< 0.040		<0.050	< 0.008
NOV	1500	19	44	9.9	0.1	1,550	20.5	10.5	1.4	<0.040		< 0.050	<0.008
05 DEC	1325	35	32	11.7	8.0	1,400	25.8	7.6	1.7	< 0.050	0.060	< 0.050	< 0.010
11	1330	18	7.0	13.3	7.7	1,810	5.0	0.0	1.4	< 0.050	0.050	0.410	< 0.010
JAN 2002 15	1500	12	13	11.2	7.5	2,220	-6.9	-0.3	1.6	0.080	0.090	0.400	< 0.010
FEB 12	1550	5.8	4.0	11.9	7.5	2,050	-3.2	-0.3	1.5	< 0.050	< 0.050	0.190	< 0.010
MAR 19	1425	29	5.0	13.8	7.8	1,310	-0.2	-0.2	1.3	0.170	0.170	0.940	0.020
APR 16	1500	116	46	11.0	8.0	1,260	31.9	18.5	1.4	< 0.050	< 0.050	2.30	0.070
MAY 14	1355	200	58	11.6	8.1	1,430	19.8	13.4	1.9	0.070	0.080	2.50	0.060
JUN	1 4 0 0	65	<i>-</i> 1	0.0	0.0	1 550	22.0	17.0	1.6	0.000	0.050	0.110	0.010
04 25	1400 0830	65 71	51 38	9.8 5.7	8.3 8.3	$1,550 \\ 1,380$	23.0 30.0	$17.0 \\ 27.0$	1.6 2.0	0.080 <0.050	<0.050 <0.050	0.110 <0.050	0.010 <0.010
JUL	0850	/1	30	5.7	0.5	1,380	30.0	27.0	2.0	<0.050	<0.050	<0.050	<0.010
09	1600	321	100	4.7	7.7	714	31.5	27.0	1.6	0.120	0.120	0.780	0.080
23	1430	141	32	6.9	7.7	1,180	23.0	22.5	1.7	< 0.050	< 0.050	0.150	0.010
AUG	1415	77	(1	7.6	0.1	1 200	22.1	21.2	1.0	.0.050	.0.050	.0.050	.0.010
06 20	1415 1250	77 44	61 43	7.6 8.9	8.1 8.1	$1,280 \\ 1,250$	23.1 25.0	21.3 20.7	1.8 1.4	<0.050 <0.050	<0.050 <0.050	<0.050 0.080	<0.010 <0.010
SEP	1250		45	0.7	0.1	1,230	25.0	20.7	1.4	NO.000	~0.050	0.000	NU.010
10 24	1430 1130	37 29	57 24	8.0 9.2	8.3 8.2	1,340 1,460	26.8 15.5	21.0 9.8	1.6 1.3	<0.050 <0.050	<0.050 0.070	<0.050 <0.050	<0.010 <0.010
<i>2</i> -7	1150	<i>2</i>)	27	1.2	0.2	1,700	15.5	2.0	1.5	\$0.050	0.070	\$0.050	\$0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001	0.05	0.10				27.9	00	15
09 NOV	0.05	0.19				27.8	99	65
05 DEC	0.052	0.193	37k	27k	63k	32.4	99	24
11	0.049	0.114				9.75	75	37
JAN 2002	01015	01111				2110	10	0,
15	0.009	0.080				14.2	94	35
FEB 12	0.012	0.098				21.0	99	8
MAR	0.012	0.098				21.0	99	8
19	0.131	0.198				3.45	94	8
APR								
16	0.111	0.136	24k	45k	38k	69.9	99	44
MAY 14	0.100	0.231	63k	47k	60k	15.8	99	72
JUN	0.100	0.251	0.5K	τ/K	OOK	15.0	,,	12
04	0.056	0.186	<1	82	112	24.9	100	43
25	0.079	0.266	100k	650	754	28.1	99	87
JUL 09	0.304	0.544	120k	270k	1,800k	23.2	98	119
23	0.304	0.488	<5k	270k 58k	403	23.3	99	91
AUG								
06	0.147	0.334	56	110	447	60.8	100	65
20	0.104	0.261	40k	180	256	1.64	99	45
SEP 10	0.084	0.244	270	440k	110	26.0	100	75
24	0.084	0.244	130	110	86	4.04	98	36
			200		00		,,,	20

Remark codes used in this table: < -- Less than

Value qualifier codes used in this table: k -- Counts outside acceptable range

0

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBEI	R	D	ECEMBE	R		JANUARY	7
1 2 3 4 5	 	 	 	 	 	 	 	 	 	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
6 7 8 9 10	 	 	 	 	 	 	 	 	 	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
11 12 13 14 15	 	 	 	 	 	 	0.1 0.2 0.1 0.2	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	$\begin{array}{c} 0.2 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$
16 17 18 19 20	 	 	 	 	 	 	0.2 0.2 0.2 0.2 0.2	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.1 \end{array}$	$0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$
21 22 23 24 25	 	 	 	 	 	 	$0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.1 \end{array}$
26 27 28 29 30 31	 	 	 	 	 	 	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
MONTH							0.2	0.0	0.1	0.2	0.0	0.1
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.2 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.0 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	 	 	 	11.9 11.8 13.6 13.9 13.2	10.0 8.0 9.1 11.2 10.5	10.9 9.9 11.2 12.5 11.8
6 7 8 9 10	$0.2 \\ 0.3 \\ 0.3 \\ 0.1 \\ 0.1$	$\begin{array}{c} 0.0 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	 	 	 	13.9 12.6 8.8 7.4 9.9	$11.0 \\ 8.8 \\ 7.4 \\ 6.0 \\ 6.1$	12.2 10.7 8.1 6.7 7.8
11 12 13 14 15	$0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.2 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.0 \end{array}$	 	 	 	9.8 10.6 13.2 15.0 16.9	9.2 8.7 9.6 11.7 13.6	9.6 9.6 11.3 13.3 15.0
16 17 18 19 20	$0.2 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.0 \\ 0.0 \\ 0.1 \end{array}$	0.1 0.1 0.1 	0.0 0.0 0.0	0.0 0.0 0.0 	18.1 16.5 11.5 10.5	14.8 11.5 8.4 7.8	16.5 14.3 9.7 9.1	15.6 14.6 15.0 15.6 17.0	12.8 12.1 11.6 11.7 12.7	14.2 13.5 13.3 13.6 14.7
21 22 23 24 25	$\begin{array}{c} 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	 	 	 	9.8 9.8 13.6 13.3 9.3	7.9 7.3 7.5 9.3 5.7	8.5 8.4 10.2 11.3 7.4	17.2 16.5 15.9 14.8 16.8	13.5 13.8 11.9 9.8 12.8	15.4 15.2 13.8 12.2 14.7
26 27 28 29 30 31	0.1 0.1 	0.0 0.0 0.0 	0.0 0.0 0.0 	 	 	 	8.6 7.5 7.3 10.1 12.2	6.4 4.9 4.8 5.9 8.6	7.3 6.5 5.9 7.8 10.3	18.8 21.1 22.9 23.3 23.6 23.8	15.3 16.4 19.0 20.3 20.4 19.4	16.8 18.5 20.6 21.9 21.9 21.5
MONTH	0.3	0.0	0.1	0.2	0.0	0.1	18.1	4.8	9.5	23.8	6.0	13.6

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1	24.0	20.1	22.1	30.0	27.3	28.8	27.8	24.4	25.9	25.2	22.0	23.7
2	22.5	17.6	19.9	29.2	25.5	26.6	25.8	22.0	23.9	24.6	22.1	23.5
3	17.6	15.4	16.0	25.7	24.1	24.9	24.6	22.3	23.4	24.1	19.6	22.0
4	20.5	14.3	17.0	27.0	24.7	25.7	25.4	22.4	23.6	23.6	20.7	22.4
5	23.3	17.3	20.3	28.2	23.9	25.7	26.3	22.6	24.3	25.8	22.0	23.6
6	23.0	19.1	21.4	29.7	26.3	27.7	25.0	21.5	22.6	26.8	23.5	25.0
7	22.9	20.0	21.6	28.7	25.4	27.4	25.3	20.4	22.5	26.6	24.5	25.5
8	23.3	18.9	21.0	26.4	22.9	24.7	27.1	23.4	25.0	25.8	23.7	24.9
9	25.4	20.5	22.5	27.2	24.4	25.6	26.5	24.0	25.2	25.2	21.9	23.7
10	25.1	23.3	24.1	26.9	21.0	24.4	25.3	22.8	24.1	22.3	19.6	21.1
11	25.0	20.4	22.6	21.3	19.8	20.6	27.3	22.6	24.9	22.1	20.2	21.3
12	24.4	21.5	22.6	23.4	21.3	22.3	26.5	22.8	24.3	22.0	20.4	21.3
13	21.8	18.7	19.8	24.7	22.7	23.6	24.4	20.3	22.3	21.6	20.0	20.8
14	22.9	17.5	19.9	26.0	23.9	24.8	23.2	21.0	22.0	20.0	18.5	19.3
15	23.6	20.2	22.0	26.8	24.6	25.6	23.5	21.0	22.2	18.9	16.1	17.5
16	23.4	20.9	22.2	27.8	25.3	26.5	22.7	20.3	21.2	20.3	16.3	18.1
17	23.8	21.1	22.5	29.1	26.6	27.7	21.1	18.7	20.0	20.9	18.3	19.7
18	23.2	21.2	21.9	28.3	26.6	27.6	21.9	16.9	19.4	22.0	19.1	20.5
19	24.4	21.7	22.9	28.8	26.6	27.6	23.6	18.5	21.0	21.9	19.2	20.5
20	24.3	21.4	23.1	28.7	26.9	27.8	22.8	19.6	21.0	19.2	17.1	18.1
21	23.9	21.1	22.3	28.2	26.2	27.2	21.6	19.8	20.7	17.5	15.1	16.3
22	27.5	20.9	23.5	26.2	24.1	25.0	23.4	20.2	21.8	15.1	13.3	14.1
23	27.2	25.3	26.3	24.1	21.8	22.7	24.8	20.9	22.8	13.3	11.7	12.5
24	28.6	25.5	26.8	22.4	21.0	21.8	26.8	21.6	24.1	12.6	9.9	11.3
25	30.5	27.2	28.6	24.2	21.1	22.5	27.6	23.0	25.5	12.2	11.4	11.7
26 27 28 29 30 31	30.0 29.9 29.6 30.3 29.8	27.0 25.6 26.6 25.7 26.8	28.5 27.9 28.2 27.8 28.4	25.7 26.9 26.3 27.3 28.4 28.5	22.9 24.6 24.7 23.6 25.3 25.2	24.2 25.6 25.5 25.3 26.7 26.9	28.1 27.6 26.7 26.6 26.0 25.5	24.0 24.1 23.9 23.2 22.2 20.5	26.2 26.0 25.4 25.1 23.5 22.8	13.1 13.7 13.3 13.3 16.4	10.2 10.7 12.3 12.6 13.0	11.7 12.2 12.8 12.9 14.3
MONTH	30.5	14.3	23.1	30.0	19.8	25.5	28.1	16.9	23.3	26.8	9.9	18.7
YEAR	30.5	0.0	12.6									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBE			ECEMBE			JANUARY	
1 2 3 4 5	 	 	 	 	 	 	 	 	 	2,200 2,240 2,240 2,270 2,250	2,130 2,200 2,240 2,240 2,210	2,170 2,220 2,240 2,260 2,230
6 7 8 9 10	 	 	 	 	 	 	 	 	 	2,210 2,210 2,200 2,180 2,180	2,190 2,190 2,170 2,140 2,150	2,210 2,200 2,190 2,170 2,170 2,170
11 12 13 14 15	 	 	 	 	 	 	1,710 1,720 1,730 1,740	1,680 1,700 1,720 1,720	1,690 1,710 1,720 1,730	2,170 2,140 2,130 2,140 2,140	2,130 2,110 2,120 2,120 2,120	2,150 2,120 2,130 2,120 2,120 2,120
16 17 18 19 20	 	 	 	 	 	 	1,740 1,760 1,780 1,850 1,880	1,740 1,740 1,740 1,780 1,760	1,740 1,750 1,760 1,820 1,850	2,140 2,160 2,160 2,200 2,180	2,130 2,130 2,130 2,160 2,160	2,140 2,150 2,150 2,180 2,170
21 22 23 24 25	 	 	 	 	 	 	1,970 1,970 1,920 1,980 2,040	1,770 1,890 1,890 1,920 1,920	1,900 1,920 1,900 1,960 1,970	2,210 2,240 2,230 2,230 2,240	2,160 2,210 2,190 2,210 2,210 2,190	2,170 2,240 2,200 2,210 2,220
26 27 28 29 30 31	 	 	 	 	 	 	2,120 2,120 2,090 2,070 2,090 2,130	2,040 2,090 2,060 2,060 2,070 2,090	2,090 2,110 2,070 2,070 2,070 2,070 2,110	2,200 2,290 2,320 2,300 2,280 2,270	2,160 2,160 2,290 2,260 2,260 2,240	2,180 2,230 2,300 2,280 2,270 2,260
MONTH							2,130	1,680	1,900	2,320	2,110	2,200
		FEBRUARY	<i>č</i>		MARCH			APRIL			MAY	
1 2 3 4 5	2,310 2,320 2,270 2,290 2,300	2,240 2,270 2,250 2,270 2,270	2,280 2,310 2,260 2,280 2,280	1,450 1,530 1,570 1,620 1,680	1,350 1,450 1,520 1,560 1,620	1,400 1,490 1,540 1,570 1,640	 	 	 	1,410 1,410 1,430 1,450 1,450	1,400 1,400 1,410 1,430 1,420	1,400 1,400 1,420 1,440 1,430
6 7 8 9 10	2,300 2,250 2,200 2,150 2,090	2,250 2,200 2,150 2,020 2,020	2,280 2,220 2,190 2,070 2,050	1,690 1,720 1,720 1,770 1,770	1,630 1,660 1,720 1,720 1,730	1,650 1,700 1,720 1,750 1,760	 	 	 	1,440 1,440 1,420 1,400 1,320	1,420 1,420 1,370 1,250 1,250	1,420 1,430 1,400 1,340 1,280
11 12 13 14 15	2,110 2,070 2,090 2,110 2,100	2,030 1,820 1,830 2,060 2,040	2,070 2,020 2,030 2,090 2,070	1,820 1,820 1,490 1,440 1,510	1,780 1,450 1,210 1,250 1,440	1,810 1,730 1,350 1,350 1,480	 	 	 	1,390 1,350 1,400 1,430 1,470	1,280 1,280 1,350 1,400 1,430	1,330 1,320 1,370 1,420 1,450
16 17 18 19 20	2,050 1,960 1,910 1,820 1,630	1,950 1,880 1,820 1,010 1,510	2,020 1,920 1,870 1,620 1,560	1,490 1,580 1,490 	1,340 1,490 1,330 	1,410 1,540 1,430 	1,300 1,310 1,340 1,370	1,280 1,290 1,310 1,340	1,290 1,300 1,320 1,360	1,510 1,520 1,520 1,510 1,500	1,470 1,510 1,510 1,500 1,490	1,500 1,520 1,510 1,500 1,500
21 22 23 24 25	1,510 1,330 1,250 997 1,170	1,300 1,250 941 942 978	1,430 1,310 1,090 978 1,020	 	 	 	$1,420 \\ 1,440 \\ 1,450 \\ 1,460 \\ 1,470$	1,360 1,410 1,410 1,450 1,460	1,380 1,430 1,430 1,460 1,470	1,500 1,500 1,510 1,520 1,520	1,490 1,490 1,490 1,510 1,510	1,490 1,490 1,500 1,510 1,520
26 27 28 29 30 31	1,200 1,180 1,350 	1,070 1,130 1,180 	1,150 1,150 1,290 	 	 	 	1,460 1,440 1,440 1,440 1,420	1,440 1,420 1,430 1,420 1,410	1,450 1,430 1,440 1,430 1,420	1,520 1,530 1,520 1,520 1,540 1,560	1,510 1,510 1,510 1,500 1,520 1,540	1,510 1,520 1,520 1,520 1,530 1,540
MONTH	2,320	 941	1,820	1,820	1,210	1,570	1,470	1,280	 1,400	1,560	1,340	1,340 1,450

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1	1,560	1,550	1,550	1,330	1,300	1,310	1,270	1,260	1,260	1,310	1,300	1,310
2	1,550	1,540	1,550	1,330	1,320	1,320	1,270	1,260	1,260	1,320	1,300	1,310
3	1,560	1,540	1,550	1,360	1,330	1,350	1,260	1,250	1,250	1,320	1,310	1,310
4	1,570	1,540	1,560	1,360	1,350	1,350	1,260	1,250	1,250	1,320	1,320	1,320
5	1,580	1,550	1,580	1,370	1,340	1,350	1,260	1,250	1,260	1,320	1,300	1,310
6	1,550	1,530	1,540	1,390	1,360	1,370	1,290	1,250	1,260	1,320	1,310	1,310
7	1,530	1,520	1,530	1,400	921	1,350	1,270	1,260	1,260	1,320	1,310	1,320
8	1,550	1,530	1,540	1,380	394	871	1,270	1,260	1,270	1,330	1,320	1,320
9	1,540	1,510	1,520	844	415	641	1,290	1,250	1,280	1,340	1,320	1,330
10	1,510	1,490	1,500	960	309	730	1,260	1,200	1,230	1,320	1,290	1,310
11	1,500	1,480	1,490	392	282	318	1,290	1,250	1,270	1,310	1,290	1,300
12	1,500	1,480	1,490	563	392	499	1,280	1,270	1,270	1,320	1,310	1,320
13	1,490	1,480	1,480	651	563	618	1,280	1,260	1,270	1,330	1,320	1,330
14	1,480	1,460	1,470	725	651	682	1,280	1,230	1,250	1,340	1,320	1,330
15	1,470	1,430	1,460	847	725	782	1,280	1,220	1,250	1,340	1,320	1,330
16	1,500	1,430	1,460	998	847	926	1,220	1,140	1,170	1,350	1,330	1,340
17	1,510	1,470	1,500	1,050	998	1,030	1,180	1,150	1,170	1,360	1,330	1,340
18	1,490	1,450	1,480	1,060	1,040	1,050	1,210	1,180	1,190	1,360	1,330	1,340
19	1,480	1,440	1,460	1,070	1,050	1,060	1,230	1,210	1,220	1,360	1,330	1,350
20	1,470	1,420	1,440	1,120	1,070	1,090	1,240	1,230	1,230	1,360	1,330	1,350
21	1,430	1,270	1,390	1,160	1,120	1,140	1,240	1,230	1,240	1,360	1,340	1,340
22	1,470	1,350	1,440	1,200	1,140	1,170	1,240	1,230	1,240	1,370	1,360	1,370
23	1,450	1,350	1,430	1,220	1,200	1,210	1,260	1,240	1,250	1,380	1,360	1,370
24	1,420	1,360	1,400	1,250	1,220	1,240	1,270	1,260	1,260	1,390	1,380	1,390
25	1,460	1,340	1,420	1,270	1,250	1,260	1,280	1,260	1,270	1,410	1,380	1,400
26 27 28 29 30 31	1,450 1,360 1,720 1,570 1,310	1,360 1,210 1,210 1,300 1,290	1,420 1,280 1,540 1,380 1,300	1,280 1,280 1,280 1,280 1,280 1,280 1,280	1,270 1,270 1,280 1,270 1,270 1,260	1,280 1,280 1,280 1,280 1,280 1,270	1,350 1,300 1,310 1,300 1,300 1,320	1,280 1,290 1,300 1,260 1,250 1,300	1,290 1,300 1,300 1,290 1,270 1,310	1,410 1,410 1,420 1,400 1,400	1,390 1,390 1,390 1,390 1,390	1,390 1,410 1,400 1,390 1,400
MONTH	1,720	1,210	1,470	1,400	282	1,080	1,350	1,140	1,250	1,420	1,290	1,340
YEAR	2,320	282	1,540									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
DAT	OCTO		NOVE		DECE		JANU		FEBRU		MAX	
1							8.0	8.0			8.1	8.0
2							8.0	8.0			8.1	8.0
3 4							$\begin{array}{c} 8.0\\ 8.0\end{array}$	8.0 7.9			8.1 8.1	8.0 8.0
5							7.9	7.9			8.2	7.9
6							7.9	7.9			8.0	7.9
7 8							7.9 8.0	7.9 7.9			8.0 7.9	7.9 7.8
9							8.0 8.0	7.9			7.9	7.8
10							8.0	8.0			7.9	7.8
11							8.0	8.0			7.9	7.8
12 13					8.1 8.1	8.1 8.1	$\begin{array}{c} 8.0\\ 8.0\end{array}$	$\begin{array}{c} 8.0\\ 8.0\end{array}$	8.1	8.0	8.0 8.2	7.8 7.9
14 15					8.1 8.2	8.1 8.1	8.0	8.0	8.2 8.3	8.1 8.2	8.2 8.0	7.9 7.8
16 17					8.2 8.2	8.1 8.1			8.3 8.3	8.1 8.1	8.3 8.2	7.8 8.1
18					8.2	8.1			8.3	8.0	8.2	8.1
19 20					8.2 8.2	8.2 8.2			8.2 8.3	8.0 8.0		
21					8.3	8.2			8.3	8.1		
22					8.3	8.2			8.2	8.1		
23 24					8.3 8.2	8.2 8.2			8.1 8.2	8.1 8.1		
25					8.2	8.1			8.2	8.1		
26					8.2	8.1			8.2	8.0		
27 28					8.1 8.1	8.1 8.0			8.1 8.1	8.0 8.0		
29					8.0	8.0						
30 31					$\begin{array}{c} 8.0\\ 8.0\end{array}$	$\begin{array}{c} 8.0\\ 8.0\end{array}$						
MONTH					8.3	8.0	8.0	7.9	8.3	8.0	8.3	7.8
MONTH					0.5	0.0	0.0	1.9	0.5	0.0	0.5	7.0
	A DI	TIC	м	v	п	NE	пп	v	AUG	UCT	SEDTE	MDED
1	API		MA		JU		JUI		AUG		SEPTE	
$\frac{1}{2}$	API 	RIL 	MA 8.6 8.6	8.5 8.5	JUI 8.6 8.5	NE 8.4 8.4	JUI 8.5 8.3	8.2 8.1	AUG 8.1 8.1	UST 7.8 7.9	SEPTE 8.3 8.4	MBER 8.2 8.2
2 3		 	8.6 8.6 8.6	8.5 8.5 8.5	8.6 8.5 8.4	8.4 8.4 8.4	8.5 8.3 8.1	8.2 8.1 7.8	8.1 8.1 8.1	7.8 7.9 8.0	8.3 8.4 8.4	8.2 8.2 8.2
2			8.6 8.6	8.5 8.5	8.6 8.5	8.4 8.4	8.5 8.3	8.2 8.1	8.1 8.1	7.8 7.9	8.3 8.4	8.2 8.2
2 3 4	 	 	8.6 8.6 8.5	8.5 8.5 8.5 8.4	8.6 8.5 8.4 8.4	8.4 8.4 8.4 8.3	8.5 8.3 8.1 8.3 8.3	8.2 8.1 7.8 8.0 8.2	8.1 8.1 8.1 8.2	7.8 7.9 8.0 7.9	8.3 8.4 8.4 8.5	8.2 8.2 8.2 8.2 8.3
2 3 4 5 6 7	 	 	8.6 8.6 8.5 8.5 8.4 8.4	8.5 8.5 8.4 8.4 8.4 8.4	8.6 8.5 8.4 8.4 8.4 8.4 8.4	8.4 8.4 8.3 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.3 8.3	8.2 8.1 7.8 8.0 8.2 8.2 8.0	8.1 8.1 8.2 8.3 8.2 8.2	7.8 7.9 8.0 7.9 8.0 8.0 8.1	8.3 8.4 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.2 8.3 8.3 8.3
2 3 4 5 6	 	 	8.6 8.6 8.5 8.5 8.5	8.5 8.5 8.4 8.4 8.4	8.6 8.5 8.4 8.4 8.4 8.4	8.4 8.4 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.3	8.2 8.1 7.8 8.0 8.2 8.2	8.1 8.1 8.2 8.3 8.2	7.8 7.9 8.0 7.9 8.0 8.0	8.3 8.4 8.4 8.5 8.5 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4
2 3 4 5 6 7 8	 	 	8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.4	8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.2	8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.3 8.3 8.2 8.1	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6	8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.3	7.8 7.9 8.0 7.9 8.0 8.0 8.1 8.1	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.2 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11		 	8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.4 8.2 8.2 8.2	8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.2 8.1 8.1	8.6 8.5 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.4 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2	8.5 8.3 8.1 8.3 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.5	8.2 8.1 7.8 8.0 8.2 8.0 7.6 7.5 7.5 7.4	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12		 	8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.2 8.2 8.2 8.2	8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.2	8.6 8.5 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.4 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3	8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.6 7.4	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.2	8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.2 8.1 8.1 8.2	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14			8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3	8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2	8.6 8.5 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.3 8.4	8.5 8.3 8.1 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.6 7.5 7.4 7.3 7.4	8.2 8.1 7.8 8.0 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.2 7.3 7.3	8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.1	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15			8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.3 8.4 8.5	8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.6 7.5 7.4 7.3 7.4 7.6	8.2 8.1 7.8 8.0 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.2 7.3 7.3 7.4	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.87.98.07.98.08.18.18.18.18.18.28.18.28.28.28.18.2	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16			8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.7 8.7	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6	8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.6 7.6	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.1 8.2 8.2 8.2 8.2 8.2	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.6	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ \end{array} $	 8.5 8.4	 8.3 8.3	8.6 8.6 8.5 8.5 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.4 8.4	8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.4	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.7 8.7 8.7 8.7	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.5	8.5 8.3 8.1 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.6 7.6 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.3 7.3 7.4 7.5 7.6 7.6	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.6 8.6	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ \end{array} $	 8.5 8.4 8.5	 8.3 8.3 8.3	8.6 8.6 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4	8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5	8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.6 7.6 7.8 7.8 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.0 7.6 7.5 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5 7.6 7.6 7.6	8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\end{array}$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\end{array}$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $	 8.5 8.4 8.5 8.5	 8.3 8.3 8.3 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.5 8.5	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\end{array}$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.4\\ 8.2\\ 8.3\\ 8.4\\ 8.5\\ 8.6\\ 8.5\\ 8.6\\ 8.5\\ 8.4\end{array}$	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.3\\ 7.4\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\end{array}$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.7\end{array}$	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3 \end{array}$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\end{array}$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ \end{array} $	 8.5 8.4 8.5 8.5 8.5 8.4	 8.3 8.3 8.3 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\end{array}$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.5 8.5 8.5 8.4 8.3 8.2	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.3\\ 7.4\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.7\\ 7.7$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.6\end{array}$	8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\end{array}$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.4 8.4 8.4	 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.3 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\end{array}$	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\end{array}$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ \end{array} $	 8.5 8.4 8.5 8.5 8.5 8.4	 8.3 8.3 8.3 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\end{array}$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.5 8.5 8.5 8.4 8.3 8.2	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.3\\ 7.4\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.7\\ 7.7$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.6\end{array}$	8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\end{array}$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.6	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.2 8.3 8.2 8.3 8.2 8.2	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.6\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.7\\ 7.8\\ 7.7\\ 7.8\\ 7.8$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.7\\ 7.7$	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\end{array}$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.4\\ 7.3\\ 7.4\\ 7.6\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.7\\ 7.8\\ 7.8$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.5\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.7$	$\begin{array}{c} 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.3\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 8.3\\ 8.4\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.6 8.6 8.6 8.6	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.4 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.6\\ 7.7\\ 7.7$	8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\end{array}$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.6 8.6 8.6 8.6	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.7\\ 7.7$	8.1 8.1 8.2 8.3 8.2 8.3 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.3\end{array}$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ \end{array}$	 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.5 8.5 8.4 8.4 8.4 8.4 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.5	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.4 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.3\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.6\\ 7.7\\ 7.7\\ 7.7$	8.1 8.1 8.2 8.3 8.2 8.3 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.6 8.6 8.6 8.6	$\begin{array}{c} 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.2\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.5 8.4 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	$\begin{array}{c} 8.5\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.1\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6$	$\begin{array}{c} 8.2\\ 8.1\\ 7.8\\ 8.0\\ 8.2\\ 8.2\\ 8.0\\ 7.6\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.4\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.7\\ 7.7$	8.1 8.1 8.2 8.3 8.2 8.3 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.3	$\begin{array}{c} 7.8\\ 7.9\\ 8.0\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 8.3\\ 8.4\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.3\end{array}$	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R	1	DECEMBE	R		JANUARY	ŕ
1 2												
3												
4 5												
6 7												
8												
9												
10												
11 12												
12												
14												
15												
16 17												
18												
19												
20												
21												
22 23												
24												
25												
26												
27 28												
29												
30 31												
MONTH		 FEBRUAR	 v		 MARCH			 APRIL			 MAY	
				•••		10 5				10.5		10.5
$\frac{1}{2}$				20.9 22.4	17.2 17.4	18.5 19.2				13.5 14.5	11.3 11.6	12.5 12.9
3				23.4	18.1	20.5				13.0	10.8	12.1
4 5				23.7	19.0	21.2				12.4	10.0	11.0
				23.5	17.4	20.1				12.2	10.3	11.2
6 7				18.8 18.1	16.5 15.2	17.6 16.6				12.3 11.4	10.2 10.1	$11.1 \\ 10.8$
8				15.6	13.7	14.7				11.4	10.1	11.2
9				14.5	13.5	13.9				11.9	11.4	11.7
10				14.4	12.1	13.1				11.6	10.9	11.5
11 12				17.3 21.1	13.9 15.6	14.8 17.7				10.9 10.8	10.2 10.4	10.4 10.6
13	19.2	16.4	17.6	21.0	15.0	17.9				10.8	10.2	10.6
14 15	24.0 24.9	18.2	19.9 22.1	20.3 17.2	14.2 12.7	16.3 14.3				10.4 9.8	9.8	10.0 9.4
		18.6									9.1	
16 17	25.5 25.3	17.3 17.4	21.0 21.5	16.5 15.5	12.5 13.8	14.7 14.6	12.3	8.2	10.1	10.3 10.6	8.9 9.6	9.7 10.2
18	24.5	16.6	20.4	14.7	12.8	13.7	10.9	9.0	10.0	11.2	9.9	10.5
19 20	21.4	16.3	18.1				14.0	10.0 11.8	11.9	11.3 11.2	10.0	10.7
	20.2	15.8	17.6				14.9		13.2		9.8	10.5
21 22	19.5 17.8	17.0 16.2	17.9 17.1				13.7 14.0	11.5 11.8	12.6 12.8	10.8 10.2	9.4 9.0	10.1 9.6
23	16.6	15.9	16.3				13.6	11.6	12.5	10.8	8.6	9.8
24 25	17.3 18.3	15.6 16.6	16.3 17.2				12.4 14.8	9.9 11.4	11.1 13.0	12.8 11.7	10.4 10.2	11.5 10.9
26 27	17.6 18.6	16.0 15.9	16.8 16.9				15.5 13.8	12.4 12.3	13.9 13.0	11.7 12.8	8.6 8.3	10.1 10.4
28	19.7	16.6	17.8				15.6	12.6	13.9	11.6	7.8	10
29 30							15.2	13.0	13.9	10.6	7.2	9.1
30 31							14.9	11.8	13.3	$10.1 \\ 11.0$	6.6 6.4	8.5 8.6
MONTH	25.5	15.6	18.4	23.7	12.1	16.6	15.6	8.2	12.5	14.5	6.4	10.6
month	20.0	15.0	10.4	23.1	12.1	10.0	15.0	0.2	14.0	14.5	0.4	10.0

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1	11.6	6.8	9.1	10.8	5.6	7.9	9.3	6.2	7.4	9.9	7.2	8.4
2	9.5	6.9	8.3	9.1	5.4	6.6	10.5	7.1	8.4	10.9	7.0	8.8
3	10.4	8.1	9.1	8.1	4.1	5.2	9.1	7.1	8.0	12.1	7.6	9.5
4	11.9	8.8	10.2	11.8	6.2	9.0	10.8	7.2	8.6	11.4	7.8	9.8
5	11.7	8.5	10	10.0	6.7	8.3	11.5	7.2	9.3	12.2	7.7	9.6
6	10.9	8.0	9.3	6.7	4.2	5.4	9.8	7.2	8.2	11.4	7.8	9.1
7	11.4	7.2	9.0	5.3	2.5	3.8	9.7	7.2	8.4	10.0	6.9	8.6
8	10.6	7.6	9.1	5.5	4.1	4.8	10.0	6.8	8.3	9.1	6.4	7.6
9	9.8	7.5	8.5	4.6	3.9	4.3	10.8	6.6	8.5	8.4	6.4	7.3
10	8.7	6.7	7.7	4.8	4.3	4.5	10.6	6.8	8.6	8.6	7.4	7.9
11	11.9	6.3	8.8	4.9	4.4	4.6	11.4	7.0	9.0	8.6	7.1	7.9
12	11.4	7.1	8.9	4.8	4.2	4.5	10.9	6.8	8.9	8.6	7.9	8.2
13	11.6	7.9	9.5	4.8	4.4	4.6	11.4	7.7	9.5	8.2	7.3	7.7
14	15.2	10.6	12.4	5.2	4.4	4.7	10.0	7.8	8.9	8.6	7.4	8.1
15	15.5	10.6	13.4	6.1	4.6	5.3	10.9	7.9	9.3	9.9	8.2	8.9
16	14.5	11.8	12.8	6.6	4.8	5.6	11.0	8.2	9.6	10.6	8.2	9.2
17	12.1	9.5	10.7	7.4	5.2	6.1	11.9	8.6	10.1	10.6	8.0	9.1
18	10.8	7.8	8.9	7.4	5.3	6.2	13.2	9.2	11.0	9.3	7.5	8.4
19	8.4	6.2	7.5	7.5	5.4	6.3	13.8	8.7	11.1	8.8	7.0	7.8
20	10.8	6.3	8.2	7.3	5.5	6.3	11.9	8.4	9.9	8.8	7.2	7.9
21	9.8	6.7	7.8	6.5	5.6	6.0	10.2	7.5	8.7	9.0	7.7	8.3
22	9.2	5.5	7.2	7.2	5.6	6.3	10.7	7.3	8.9	9.3	8.3	8.9
23	8.0	5.2	6.8	7.3	6.4	6.7	12.2	7.2	9.3	9.6	9.1	9.4
24	7.9	5.0	6.0	7.2	6.5	6.9	12.7	7.1	9.8	10.3	9.2	9.6
25	7.4	4.8	6.0	7.4	6.6	7.0	12.2	6.8	9.7	9.5	7.7	8.9
26 27 28 29 30 31	9.1 12.7 13.7 10.0 9.6	5.2 6.0 6.5 5.1 5.3	6.9 9.1 9.8 7.4 7.2	7.3 7.0 6.7 7.3 7.4 8.0	6.4 6.3 6.1 6.3 6.2 6.2	6.8 6.6 6.4 6.7 6.7 6.9	11.7 11.1 9.9 9.8 9.4 10.6	6.7 6.5 6.7 6.4 6.5 7.4	9.5 8.9 8.2 8.2 7.7 8.8	9.1 8.9 8.4 7.8 6.5	7.4 7.9 6.7 5.6 5.6	8.2 8.4 7.7 6.5 6.1
MONTH	15.5	4.8	8.9	11.8	2.5	6.0	13.8	6.2	9.0	12.2	5.6	8.4
YEAR	25.5	2.5	10.3									

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBE	ર	Ľ	DECEMBE	R		JANUARY	
1 2 3 4 5	 	 	 	 	 	 	 	 	 	13 12 12 11 11	9.5 9.3 9.0 8.7 8.6	18 18 17 17 18
6 7 8 9 10	 	 	 	 	 	 	 	 	 	11 11 11 11 10	8.8 8.7 8.4 8.8 8.3	17 18 17 18 18
11 12 13 14 15	 	 	 	 	 	 	18 16 16 16	12 10 11 10	14 14 14 14	11 11 12 11 20	8.3 8.4 8.1 8.0 7.3	19 19 19 19 19
16 17 18 19 20	 	 	 	 	 	 	14 15 16 14 14	11 10 11 10 11	14 14 16 15 15	17 17 17 15 15	14 13 12 12 13	15 14 13 13 12
21 22 23 24 25	 	 	 	 	 	 	17 17 14 22 16	13 11 9.8 9.4 11	19 18 16 17 19	16 14 14 14 24	12 11 10 10 11	12 11 11 10 11
26 27 28 29 30 31	 	 	 	 	 	 	15 13 12 16 12 12	11 9.5 9.4 9.5 9.1 9.8	19 16 16 17 17 17	31 25 21 23 23 24	12 12 11 11 12 14	12 12 11 11 12 12
MONTH							22	9.1	16	31	7.3	15
		FEBRUARY	ſ	1	MARCH			APRIL			MAY	
1 2 3 4 5	40 40 35 42 34	12 12 12 13 12	13 12 14 13 12	7.4 7.2 7.1 7.3 6.6	5.8 5.7 5.2 5.3 4.9	6.7 6.3 6.1 6.1 5.6	 	 	 	67 66 77 100 87	39 35 41 54 49	49 50 54 73 66
6 7 8 9 10	34 70 28 20 19	13 12 13 12 12	13 17 10 8.3 7.9	6.6 6.4 5.7 6.2 7.9	4.8 4.7 4.7 4.6 4.7	5.6 5.4 5.1 5.0 5.5	 	 	 	61 62 73 230 200	45 40 32 43 110	53 53 40 120 150
11 12 13 14 15	19 18 8.5 12 11	11 6.6 5.8 5.7 5.8	7.3 7.3 6.9 7.2 7.7	8.2 17 17 12 9.9	4.5 7.1 9.2 7.4 7.1	5.7 11 12 8.8 7.9	 	 	 	150 120 120 	93 75 67 	120 97 93
16 17 18 19 20	15 14 17 84 12	5.7 5.7 5.7 6.7 7.6	8.9 8.5 9.0 20 9.5	17 11 8.6 	9.2 7.2 7.2	12 8.4 7.6	160 170 120 61	67 98 48 37	100 120 73 47	 	 	
21 22 23 24 25	13 12 22 20 11	8.1 9.5 11 10 8.3	11 11 15 14 9.6		 	 	52 46 66 80 59	35 36 37 57 38	43 40 47 69 48	 	 	
26 27 28 29 30 31 MONTH	11 10 7.7 84	7.7 7.2 6.2 5.7	9.4 8.5 7.2 11	 17	 4.5	 7.3	45 42 34 58 55 170	31 30 26 29 39 	38 37 31 37 46 55	 230	 32	 78

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBI	ER
1 2 3 4 5	 100	 64	 79	64 58 45 66 61	37 35 32 28 30	52 43 40 39 39	100 88 78 77 72	56 49 52 48 45	78 68 63 67 60	100 110 110 110 110 110	78 82 82 83 78	83 86 85 88 86
6 7 8 9 10	100 91 110 84 84	62 51 57 52 49	77 72 79 69 62	52 64 1,100 290 430	26 28 36 120 150	32 40 400 170 260	74 69 72 74 77	51 48 43 41 50	62 60 57 54 62	110 110 93 110 91	77 77 71 79 60	86 83 74 81 75
11 12 13 14 15	67 90 85 34 28	36 36 24 25 22	47 54 51 27 25	350 110 76 81 80	110 69 64 56 51	190 78 67 67 63	79 75 94 94 90	52 52 57 67 55	64 62 73 78 68	91 98 86 83 75	68 68 60 63 51	78 82 76 71 60
16 17 18 19 20	34 47 35 51 63	24 24 26 32 29	30 32 30 40 47	85 90 83 84 91	57 55 55 59 55	71 70 65 68 67	85 81 83 78 90	63 61 56 50 51	72 71 69 63 62	63 62 61 62 58	43 53 45 41 37	54 57 54 52 47
21 22 23 24 25	130 79 110 130 99	29 37 37 45 44	65 63 69 78 72	100 92 79 79 90	58 58 55 53 55	64 68 65 65 73	77 86 77 76 81	49 49 54 52 53	64 65 64 61 63	55 49 53 39 53	36 32 30 	46 40 37 32 42
26 27 28 29 30 31	79 54 60 62 75	41 40 38 41 46	57 47 48 56 62	120 91 170 170 120 110	59 59 75 71 69 67	75 78 100 98 92 84	81 85 96 88 120 110	49 60 66 69 74 73	64 68 74 75 83 81	61 60 69 74 81	31 34 37 45 50	42 44 50 58 64
MONTH YEAR	130 1,100	22 4.5	55 46	1,100	26	90	120	41	67	110	30	64

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
08	1145	29	15	10.5	8.2	1,420	11.6	8.7	1.2	< 0.050	< 0.050	< 0.050	< 0.010
NOV						, -							
05	1145	27	17	13.8	8.0	1,650	3.0	-0.1	1.4	< 0.050	< 0.050	0.060	< 0.010
DEC													
10	1425	8.9	6.0	20.6	8.0	2,030	13.3	0.0	1.4			0.140	< 0.010
JAN 2003	1450	E2 7	14	10.2	75	2 210	15.0	0.0	1.6	0.090	0.000	0.220	-0.010
14 APR	1450	E2.7	14	18.2	7.5	2,310	-15.0	0.0	1.6	0.080	0.090	0.230	< 0.010
16	1030	33	120	9.7	8.2	1,470	1.0	8.8	1.8	< 0.050	< 0.050	< 0.050	< 0.010
MAY	1050	55	120	2.1	0.2	1,470	1.0	0.0	1.0	<0.050	<0.050	<0.050	<0.010
20	1400	56	94	10.7	8.1	1,770	14.9	14.1	1.8	< 0.050	< 0.050	0.310	0.010
JUN						,							
04	1045	46	100	9.3	8.4	1,680	20.3	17.6	1.7	< 0.050	< 0.050	0.060	< 0.010
18	1030	41	100	3.8	7.9	1,670	25.5	25.1	2.4	0.070	0.070	< 0.050	< 0.010
JUL													
10	1040	363	120	6.7	7.6	1,210	18.5	21.6	2.2	< 0.050	< 0.050	0.050	< 0.010
22	1030	356	100	7.0	7.9	1,320	22.2	23.3	2.0	< 0.050	< 0.050	0.200	0.020
AUG	0015	-	60	6.0	0.1	1 400	22.5	24.0	1.0	0.050	0.050	0.100	0.010
06	0915	76	60	6.3	8.1	1,480	23.5	24.0	1.8	< 0.050	< 0.050	0.100	< 0.010
20	0920	43	63	5.7	8.1	1,500	26.9	26.1	1.7	< 0.050	< 0.050	< 0.050	< 0.010
SEP 04	1015	31	60	6.8	8.0	1,540	17.8	17.9	1.8	< 0.050	< 0.050	< 0.050	< 0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
08	0.005	0.167	80k	160	60k	20.2	98	46
NOV								
05	0.010	0.096	3k	10k	29k	21.6	95	12
DEC	0.005	0.047				14.0	100	
10	< 0.005	0.047				14.8	100	4
JAN 2003 14	< 0.005	0.048				10.6	59	124
APR	<0.00J	0.048				10.0	39	124
16	0.012	0.251	E67k	E35k	223	54.2	78	16
MAY		0.20 -				•		
20	0.031	0.171	<10	E80k	E20k	37.9	100	107
JUN								
04	0.026	0.181	E73k	E250k	294	23.6	96	106
18	0.033	0.253	400	230	220	41.4	90	92
JUL	0.444	0.620	F 4001	4.50				
10	0.416	0.639	E180k	170	513	50.2	99	84
22	0.364	0.545		170	366	18.9	98	103
AUG 06	0.171	0.303	120k	210	168k	24.7	99	92
20	0.171			140		24.7 8.44	99 94	92 60
SEP	0.100	0.225	140	140	234	0.44	94	00
04	0.044	0.162				8.55	93	37

Remark codes used in this table: < -- Less than E -- Estimated value

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		Ν	OVEMBEI	R	E	DECEMBE	R		JANUARY	7
1 2 3 4 5	16.3 14.6 12.3 11.2 10.4	14.6 12.3 11.2 9.9 9.6	15.5 13.0 11.5 10.6 10.0	1.3 0.7 0.4 0.5 0.3	$\begin{array}{c} 0.3 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	$0.7 \\ 0.3 \\ 0.2 \\ 0.3 \\ 0.2$	$\begin{array}{c} 0.5 \\ 0.4 \\ 0.3 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	0.2 0.2 0.2 0.1 0.1	0.2 0.2 0.2 0.2 0.2	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \end{array}$
6 7 8 9 10	10.2 9.5 9.8 9.0 12.2	8.7 7.5 8.7 7.0 8.9	9.4 8.5 9.2 8.3 10.2	1.0 3.3 3.2 3.5 3.4	0.1 0.2 2.5 2.9 0.2	0.5 1.5 2.9 3.2 1.9	$\begin{array}{c} 0.2 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.4 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	0.2 0.3 0.3 0.3 0.3	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.1 \end{array}$
11 12 13 14 15	13.3 12.9 9.1 8.8 8.5	12.0 9.1 6.8 6.8 7.4	12.6 10.9 7.8 7.8 7.9	$0.9 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.8$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.1 \end{array}$	$0.5 \\ 0.4 \\ 0.3 \\ 0.3 \\ 0.4$	0.3 0.3 0.3 0.3 0.4	$\begin{array}{c} 0.1 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \end{array}$	0.2 0.2 0.2 0.2 0.2	0.2 0.2 0.2 	0.1 0.1 0.0 	0.1 0.1 0.2
16 17 18 19 20	7.6 5.8 5.6 4.6 4.1	5.6 4.9 4.6 3.7 3.4	6.5 5.4 5.2 4.0 3.8	0.6 0.6 0.7 0.7 1.6	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	0.3 0.3 0.3 0.4 0.7	0.3 0.2 0.2 0.2 0.1	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	 	 	
21 22 23 24 25	4.0 4.3 3.8 3.5 4.0	2.1 3.5 2.6 2.1 3.2	3.1 3.9 3.1 2.7 3.6	2.0 1.9 1.9 0.5 0.4	$1.4 \\ 1.1 \\ 0.2 \\ 0.0 \\ 0.1$	1.7 1.5 1.2 0.2 0.2	$0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	 	 	
26 27 28 29 30 31	4.2 4.3 4.4 4.4 3.1 1.4	3.3 3.3 3.8 3.1 0.5 0.3	3.8 3.9 4.1 4.0 1.4 0.8	0.4 0.5 0.5 0.4 0.4	0.1 0.0 0.1 0.1 0.0	0.2 0.2 0.2 0.2 0.2	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	 	 	
MONTH	16.3	0.3	6.0	25	0.0	0.7	0.5	0.0		0.2	0.0	0.1
MONTH	10.5	0.3	6.9	3.5	0.0	0.7	0.5	0.0	0.1	0.3	0.0	0.1
MONTH		0.3 FEBRUARY		3.3	0.0 MARCH	0.7	0.5	0.0 APRIL	0.1	0.5	0.0 MAY	0.1
1 2 3 4 5						 	 		0.1 	16.2 17.3 16.3 15.6 11.5		14.1 14.5 14.8 13.4 10.3
1 2 3 4	 	FEBRUARY 	ť 	 	MARCH 	 	 	APRIL 	 	16.2 17.3 16.3 15.6	MAY 11.9 11.9 12.6 11.5	14.1 14.5 14.8 13.4
1 2 3 4 5 6 7 8 9	 	FEBRUAR 	r 	 	MARCH			APRIL		16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6	MAY 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY	Y 		MARCH			APRIL		16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9 14.0	MAY 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8 11.1 9.5 12.0 13.7 13.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $		FEBRUARY	Y 		MARCH		 7.8 7.8 6.1	APRIL 3.6 5.6 5.2	 5.4 6.6 5.6	16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9 14.0 17.8 19.1 18.7 18.5 18.4	MAY 11.9 11.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6 12.0 15.6 16.7 16.4 14.6	$14.1 \\ 14.5 \\ 14.8 \\ 13.4 \\ 10.3 \\ 10.6 \\ 13.0 \\ 15.0 \\ 12.8 \\ 11.1 \\ 9.5 \\ 12.0 \\ 13.7 \\ 13.2 \\ 14.6 \\ 17.2 \\ 17.6 \\ 17.5 \\ 16.5 \\ 16.5 \\ 10.1 \\ 1$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $		FEBRUARY	Y 		MARCH		 	APRIL 3.6 5.6 5.2 5.2 5.2 5.4 8.3 9.9 12.0	 5.4 6.6 5.6 5.7 7.4 10.3 12.0 13.7	16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9 14.0 17.8 19.1 18.7 18.5 18.4 16.7 17.5 20.7 19.8 18.1	MAY 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6 12.0 15.6 16.7 16.4 14.6 11.7 14.0 16.0 16.9 16.3	$\begin{array}{c} 14.1\\ 14.5\\ 14.8\\ 13.4\\ 10.3\\ 10.6\\ 13.0\\ 15.0\\ 12.8\\ 11.1\\ 9.5\\ 12.0\\ 13.7\\ 13.2\\ 14.6\\ 17.2\\ 17.6\\ 17.5\\ 16.5\\ 14.0\\ 15.7\\ 17.9\\ 18.1\\ 16.8 \end{array}$

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1 2 3 4 5	20.8 20.8 19.4 19.7 21.1	17.5 18.3 16.1 17.3 18.9	19.1 19.2 17.7 18.5 19.9	24.8 26.4 27.8 27.4 27.3	22.6 23.9 25.3 24.6 24.9	23.6 25.0 26.4 25.9 26.1	26.2 26.0 26.4 26.6 26.3	23.4 22.8 22.8 23.2 23.9	24.8 24.4 24.5 25.0 25.1	22.5 22.1 21.7 22.0 22.2	20.0 19.6 18.9 17.8 18.3	21.0 20.8 20.3 19.6 20.1
6 7 8 9 10	20.7 19.3 19.8 20.8 20.4	18.9 17.6 16.3 17.2 18.5	19.5 18.2 17.7 19.0 19.3	27.9 27.4 26.4 25.8 23.4	25.9 25.4 24.8 23.4 21.7	26.9 26.3 25.7 24.3 22.2	27.2 28.2 27.7 26.8 26.1	23.8 24.0 24.6 23.8 22.0	25.4 26.2 26.3 24.9 23.7	23.3 24.2 23.2 21.9 20.4	19.5 20.7 21.0 19.7 19.2	21.3 22.4 22.2 20.5 19.8
11 12 13 14 15	22.5 24.1 25.7 26.6 26.6	17.8 18.8 21.5 22.7 24.0	20.0 21.3 23.4 24.4 25.4	22.7 23.7 25.2 26.2 26.1	20.7 20.8 22.3 23.7 23.7	21.7 22.1 23.6 24.8 24.9	28.1 27.6 26.8 27.1 28.3	23.4 23.9 23.2 23.6 24.2	25.8 26.0 25.2 25.4 26.1	20.1 19.5 19.7 19.2 19.1	18.3 16.7 17.7 16.9 15.7	18.9 18.2 18.8 17.9 17.4
16 17 18 19 20	27.0 28.0 27.2 25.4 24.8	24.3 24.8 25.0 22.3 22.2	25.7 26.2 25.9 23.8 23.6	27.0 26.7 26.4 28.2 28.2	23.7 25.2 23.4 24.4 25.5	25.2 25.9 24.9 26.1 26.9	29.2 29.3 29.8 29.6 27.9	25.7 25.7 26.8 26.5 25.9	27.4 27.6 28.2 27.8 26.9	19.8 	16.1 	17.9
21 22 23 24 25	23.8 22.6 22.8 23.1	20.8 20.5 20.7 20.9 20.3	21.8 21.6 21.4 21.6 22.2	27.3 25.0 25.8 25.7 25.2	24.4 22.6 22.2 22.5 23.1	25.3 23.9 24.0 24.2 24.1	27.1 25.3 25.6 26.7 27.3	24.4 22.5 22.5 24.9 23.8	25.5 24.1 24.1 25.6 25.3	 	 	
26 27 28 29 30 31	20.3 19.6 21.2 22.2 23.5	18.4 18.5 19.3 20.2 21.3	18.9 19.0 20.1 21.1 22.3	26.4 25.8 27.0 26.7 26.5 27.1	24.0 23.4 22.6 24.1 23.5 23.8	25.1 24.5 24.6 25.5 25.1 25.3	28.5 26.4 25.0 24.0 22.6 22.3	25.1 23.4 22.4 20.5 18.6 19.0	26.5 24.4 23.5 22.1 20.4 20.5	 	 	
MONTH	28.0	16.1	21.3	28.2	20.7	24.8	29.8	18.6	25.1	24.2	15.7	19.8
YEAR	29.8	0.0	13.1									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAV	MAX	MIN								MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBE			DECEMBE			JANUARY	
$\frac{1}{2}$	$1,400 \\ 1,410$	$1,380 \\ 1,400$	1,380 1,400	1,650 1,690	1,610 1,460	1,640 1,600	1,910 2,030	$1,880 \\ 1,880$	$1,900 \\ 1,940$	2,170 2,230	2,130 2,170	$2,150 \\ 2,190$
2 3	1,400	1,370	1,390	1,630	1,460	1,540	2,080	2,030	2,060	2,300	2,210	2,250
4 5	1,380 1,360	1,200 1,320	1,330 1,350	1,630 1,630	1,550 1,550	1,580 1,570	2,050 2,140	2,030 2,040	2,030 2,090	2,240 2,260	2,180 2,210	2,200 2,240
6	1,330	1,230	1,310	1,600	1,570	1,580	2,140	2,110	2,130	2,250	2,210	2,220
7	1,330	1,270	1,300	1,580	1,570	1,580	2,110	2,040	2,060	2,210	2,170	2,190
8 9	$1,410 \\ 1,440$	$1,310 \\ 1,410$	1,360 1,430	1,590 1,600	$1,560 \\ 1,580$	1,580 1,600	2,090 2,090	2,080 2,060	2,090 2,080	2,170 2,070	2,070 2,040	2,130 2,050
10	1,440	1,390	1,440	1,600	1,590	1,590	2,060	2,000	2,020	2,120	2,040	2,080
11	1,460	1,410	1,440	1,610	1,570	1,590	2,000 2,000	$1,980 \\ 1,970$	2,000	2,230	2,120	2,170
12 13	$1,450 \\ 1,460$	$1,430 \\ 1,420$	$1,440 \\ 1,440$	1,610 1,630	1,570 1,610	1,590 1,620	2,000 1,980	1,970	$1,980 \\ 1,960$	2,300 2,420	2,230 2,300	2,270 2,360
14 15	1,460 1,470	$1,430 \\ 1,450$	1,440 1,460	$1,640 \\ 1,660$	1,600 1,630	1,620 1,650	1,970 1,960	1,940 1,940	$1,960 \\ 1,940$			
15	1,490	1,430		1,000	1,660	1,680	1,950	1,940				
17	1,490	1,470	1,480 1,480	1,720	1,660	1,690	1,960	1,940	$1,930 \\ 1,950$			
18 19	$1,470 \\ 1,530$	$1,450 \\ 1,460$	1,460 1,510	$1,700 \\ 1,660$	1,650 1,630	1,680 1,640	1,980 2,000	1,950 1,970	1,960 1,990			
20	1,530	1,400	1,520	1,660	1,630	1,640	2,000	1,980	2,010			
21	1,530	1,510	1,520	1,680	1,640	1,670	2,000	1,980	1,990			
22	$1,540 \\ 1,550$	$1,530 \\ 1,480$	1,540 1,510	$1,750 \\ 1,770$	$1,670 \\ 1,750$	1,710 1,770	1,980 2,060	$1,980 \\ 1,980$	1,980 2,030			
23 24	1,560	1,500	1,530	1,820	1,770	1,790	2,140	2,060	2,110			
25	1,570	1,560	1,560	1,910	1,820	1,850	2,270	2,140	2,220			
26 27	1,580 1,590	$1,570 \\ 1,570$	1,580 1,580	$1,980 \\ 1,980$	1,790 1,920	1,910 1,950	2,320 2,370	2,270 2,310	2,300 2,350			
28	1,580	1,560	1,570	1,940	1,890	1,930	2,400	2,360	2,380			
29 30	$1,570 \\ 1,600$	$1,560 \\ 1,570$	1,570 1,580	1,890 1,890	$1,850 \\ 1,850$	1,860 1,870	2,370 2,300	2,300 2,170	2,350 2,230			
31	1,620	1,600	1,610				2,170	2,130	2,140			
MONTH	1,620	1,200	1,470	1,980	1,460	1,690	2,400	1,880	2,070	2,420	2,040	2,190
MONTH		1,200 FEBRUARY		1,980	1,460 MARCH	1,690	2,400	1,880 APRIL	2,070	2,420	2,040 MAY	2,190
1		FEBRUARY			MARCH			APRIL		1,720	MAY 1,700	1,710
$\frac{1}{2}$	1	FEBRUARY	ζ.		MARCH			APRIL			MAY	1,710 1,690
1 2 3 4	 	FEBRUARY 	 	 	MARCH 	 		APRIL 		1,720 1,700 1,690 1,700	MAY 1,700 1,680 1,670 1,680	1,710 1,690 1,680 1,690
1 2 3 4 5	 	FEBRUARY 	<pre></pre>		MARCH 			APRIL 	 	1,720 1,700 1,690 1,700 1,690	MAY 1,700 1,680 1,670 1,680 1,650	1,710 1,690 1,680 1,690 1,670
1 2 3 4 5 6	 	FEBRUARY 	 	 	MARCH 	 		APRIL 		1,720 1,700 1,690 1,700 1,690 1,720	MAY 1,700 1,680 1,670 1,680 1,650 1,650	1,710 1,690 1,680 1,690 1,670 1,680
1 2 3 4 5 6 7 8	 	FEBRUARY 	<pre></pre>	 	MARCH			APRIL 		$1,720 \\ 1,700 \\ 1,690 \\ 1,700 \\ 1,690 \\ 1,720 \\ 1,720 \\ 1,720 \\ 1,710 $	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700
1 2 3 4 5 6 7	 	FEBRUARY 	<pre></pre>		MARCH			APRIL 		1,720 1,700 1,690 1,700 1,690 1,720 1,720	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710	1,710 1,690 1,680 1,690 1,670 1,680 1,720
1 2 3 4 5 6 7 8 9 10	 	FEBRUARY 	<pre></pre>		MARCH			APRIL 		$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ \end{array}$	MAY 1,700 1,680 1,670 1,680 1,650 1,710 1,680 1,640 1,650	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650 1,710
1 2 3 4 5 6 7 8 9 10 11 12	 	FEBRUARY 			MARCH			APRIL 		$1,720 \\ 1,700 \\ 1,690 \\ 1,700 \\ 1,690 \\ 1,720 \\ 1,720 \\ 1,710 \\ 1,690 \\ 1,740 \\ 1,760 \\ 1,77$	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,650 1,640 1,640 1,650 1,740 1,760	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 	FEBRUARY	 <li< td=""><td></td><td>MARCH</td><td></td><td></td><td>APRIL </td><td></td><td>$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ 1,760\\ 1,770\\ 1,770\\ 1,770\\ 1,770\end{array}$</td><td>MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,650 1,740 1,760 1,730 1,720</td><td>1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730</td></li<>		MARCH			APRIL 		$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ 1,760\\ 1,770\\ 1,770\\ 1,770\\ 1,770\end{array}$	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,650 1,740 1,760 1,730 1,720	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730
1 2 3 4 5 6 7 8 9 10 11 12 13	 	FEBRUARY 			MARCH			APRIL		$1,720 \\ 1,700 \\ 1,690 \\ 1,700 \\ 1,690 \\ 1,720 \\ 1,720 \\ 1,710 \\ 1,690 \\ 1,710 \\ 1,690 \\ 1,740 \\ 1,760 \\ 1,77$	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,640 1,650 1,740 1,760 1,730	$\begin{array}{c} 1,710\\ 1,690\\ 1,680\\ 1,690\\ 1,670\\ 1,680\\ 1,720\\ 1,700\\ 1,650\\ 1,710\\ 1,750\\ 1,770\\ 1,760\\ 1,730\\ 1,810\\ \end{array}$
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ \end{array} $		FEBRUARY	 		MARCH			APRIL		1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,710 1,690 1,740 1,740 1,770 1,770 1,770 1,770 1,850 1,880	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850	$\begin{array}{c} 1,710\\ 1,690\\ 1,680\\ 1,690\\ 1,670\\ 1,670\\ 1,720\\ 1,700\\ 1,650\\ 1,710\\ 1,750\\ 1,710\\ 1,750\\ 1,770\\ 1,760\\ 1,730\\ 1,810\\ 1,870\\ \end{array}$
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ \end{array} $		FEBRUARY	<pre> </pre>		MARCH			APRIL		$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ 1,740\\ 1,770\\ 1,770\\ 1,770\\ 1,850\\ \end{array}$	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,650 1,640 1,640 1,650 1,740 1,760 1,730 1,720 1,770	$\begin{array}{c} 1,710\\ 1,690\\ 1,680\\ 1,690\\ 1,670\\ 1,680\\ 1,720\\ 1,700\\ 1,650\\ 1,710\\ 1,750\\ 1,770\\ 1,760\\ 1,730\\ 1,810\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510	APRIL 1,340 1,350 1,400	 1,390 1,400 1,470	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,690 1,740 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,880 1,880	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,650 1,640 1,650 1,740 1,760 1,730 1,770 1,850 1,870 1,860 1,840	1,710 1,690 1,680 1,670 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,770 1,760 1,730 1,810 1,870 1,870 1,880 1,850
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $		FEBRUARY	 <td></td><td>MARCH</td><td></td><td> 1,420 1,440 1,510 1,500</td><td>APRIL 1,340 1,350 1,400 1,320</td><td> 1,390 1,400 1,470 1,370</td><td>$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ 1,770\\ 1,770\\ 1,770\\ 1,770\\ 1,770\\ 1,850\\ 1,880\\ 1,880\\ 1,880\\ 1,880\\ 1,860\\ 1,$</td><td>MAY 1,700 1,680 1,670 1,680 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,760 1,770 1,850 1,870 1,870 1,840 1,780</td><td>$\begin{array}{c} 1,710\\ 1,690\\ 1,690\\ 1,670\\ 1,670\\ 1,670\\ 1,720\\ 1,700\\ 1,650\\ 1,710\\ 1,770\\ 1,770\\ 1,770\\ 1,760\\ 1,730\\ 1,810\\ 1,870\\ 1,870\\ 1,850\\ 1,820\\ 1,820\\ \end{array}$</td>		MARCH		 1,420 1,440 1,510 1,500	APRIL 1,340 1,350 1,400 1,320	 1,390 1,400 1,470 1,370	$\begin{array}{c} 1,720\\ 1,700\\ 1,690\\ 1,700\\ 1,690\\ 1,720\\ 1,720\\ 1,720\\ 1,710\\ 1,690\\ 1,740\\ 1,770\\ 1,770\\ 1,770\\ 1,770\\ 1,770\\ 1,850\\ 1,880\\ 1,880\\ 1,880\\ 1,880\\ 1,860\\ 1,$	MAY 1,700 1,680 1,670 1,680 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,760 1,770 1,850 1,870 1,870 1,840 1,780	$\begin{array}{c} 1,710\\ 1,690\\ 1,690\\ 1,670\\ 1,670\\ 1,670\\ 1,720\\ 1,700\\ 1,650\\ 1,710\\ 1,770\\ 1,770\\ 1,770\\ 1,760\\ 1,730\\ 1,810\\ 1,870\\ 1,870\\ 1,850\\ 1,820\\ 1,820\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510 1,500 1,410 1,460	APRIL 1,340 1,350 1,400	 1,390 1,400 1,470 1,370 1,390 1,420	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,690 1,740 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,880 1,880	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,770 1,850 1,770 1,850 1,870 1,860 1,840 1,780 1,780 1,790	1,710 1,690 1,680 1,670 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,770 1,760 1,730 1,810 1,870 1,870 1,850 1,820 1,820 1,800 1,800
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $		FEBRUARY	 <td></td><td>MARCH</td><td></td><td> 1,420 1,440 1,510 1,510 1,510 1,410 1,460 1,490</td><td>APRIL 1,340 1,350 1,400 1,320 1,370 1,380 1,460</td><td> 1,390 1,400 1,470 1,370 1,390 1,420 1,480</td><td>1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,760 1,770 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,860 1,810 1,810 1,800</td><td>MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850 1,870 1,860 1,840 1,780 1,780</td><td>1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,750 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,870 1,850 1,820 1,800 1,800 1,790</td>		MARCH		 1,420 1,440 1,510 1,510 1,510 1,410 1,460 1,490	APRIL 1,340 1,350 1,400 1,320 1,370 1,380 1,460	 1,390 1,400 1,470 1,370 1,390 1,420 1,480	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,760 1,770 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,860 1,810 1,810 1,800	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850 1,870 1,860 1,840 1,780 1,780	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,750 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,870 1,850 1,820 1,800 1,800 1,790
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510 1,500 1,410 1,460	APRIL 1,340 1,350 1,400 1,320 1,370 1,380	 1,390 1,400 1,470 1,370 1,390 1,420	1,720 1,700 1,690 1,700 1,720 1,720 1,720 1,720 1,740 1,740 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,810 1,810 1,810	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,770 1,850 1,770 1,850 1,870 1,860 1,840 1,780 1,780 1,790	1,710 1,690 1,680 1,670 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,770 1,760 1,730 1,810 1,870 1,870 1,850 1,820 1,820 1,800 1,800
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510 1,410 1,400 1,410 1,490 1,540 1,490 1,540 1,630 1,700	APRIL 1,340 1,350 1,400 1,320 1,370 1,380 1,460 1,480 1,540 1,540 1,630	 1,390 1,400 1,470 1,370 1,420 1,420 1,480 1,500 1,580 1,580 1,670	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,860 1,810 1,800 1,780 1,800 1,770	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,640 1,740 1,760 1,720 1,770 1,850 1,870 1,870 1,870 1,880 1,780 1,780 1,780 1,750	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,700 1,710 1,750 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,820 1,820 1,800 1,800 1,790 1,770 1,780
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $		FEBRUARY			MARCH		 	APRIL 1,340 1,350 1,400 1,320 1,370 1,480 1,480 1,540 1,630 1,700	 1,390 1,400 1,470 1,470 1,470 1,470 1,420 1,480 1,500 1,580 1,580 1,670 1,730	1,720 1,700 1,690 1,700 1,720 1,720 1,720 1,720 1,770 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,880 1,860 1,810 1,800 1,780 1,700 1,770 1	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,760 1,720 1,770 1,850 1,870 1,880 1,780 1,780 1,780 1,760 1,750 1,740	1,710 1,690 1,690 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,820 1,820 1,800 1,820 1,800 1,770 1,780 1,760 1,750
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 23 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ \end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510 1,440 1,510 1,500 1,410 1,460 1,490 1,540 1,630 1,700 1,760 1,770 1,780	APRIL -	 -	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,860 1,810 1,810 1,800 1,780 1,770 1,780 1,770 1,760 1,740 1,740 1,740	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,650 1,740 1,740 1,760 1,720 1,770 1,850 1,870 1,870 1,870 1,870 1,870 1,780 1,780 1,780 1,750 1,750 1,750 1,730 1,700	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,720 1,700 1,710 1,750 1,710 1,750 1,710 1,750 1,710 1,810 1,870 1,870 1,870 1,870 1,820 1,800 1,800 1,790 1,770 1,780 1,760 1,770
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $		FEBRUARY			MARCH		 	APRIL -	 -	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,720 1,770 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,860 1,810 1,810 1,800 1,780 1,800 1,770 1,760 1,740 1,720	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850 1,870 1,870 1,860 1,840 1,780 1,780 1,780 1,750 1,740 1,750 1,740 1,700 1,700 1,700	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,700 1,700 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,870 1,870 1,880 1,850 1,800 1,800 1,790 1,770 1,780 1,760 1,750 1,770
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $		FEBRUARY			MARCH		 1,420 1,440 1,510 1,460 1,410 1,460 1,490 1,540 1,400 1,540 1,630 1,700 1,760 1,780 1,750	APRIL 1,340 1,350 1,400 1,320 1,370 1,380 1,460 1,380 1,460 1,540 1,540 1,540 1,540	 1,390 1,400 1,470 1,370 1,390 1,420 1,480 1,500 1,580 1,580 1,580 1,670 1,740	1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,760 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,860 1,810 1,810 1,800 1,780 1,770 1,780 1,770 1,760 1,740 1,740 1,740	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,640 1,640 1,650 1,740 1,740 1,760 1,720 1,770 1,850 1,870 1,870 1,870 1,870 1,870 1,780 1,780 1,780 1,750 1,750 1,750 1,730 1,700	1,710 1,690 1,690 1,670 1,670 1,670 1,720 1,720 1,700 1,710 1,750 1,710 1,750 1,710 1,750 1,710 1,810 1,870 1,870 1,870 1,870 1,820 1,800 1,800 1,790 1,770 1,780 1,760 1,770

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

JUNE JULY AUGUST SEPTEMBER 1 1.730 1.690 1.710 918 838 873 1.490 1.480 1.480 1.550 1.540 2 1.700 1.700 1.700 1.700 1.500 1.490 1.490 1.550 1.540 4 1.700 1.670 1.690 1.110 1.060 1.800 1.490 1.480 1.550 1.550 1.550 6 1.710 1.670 1.690 1.160 1.170 1.490 1.480 1.480 1.500 1.550 1.550 1.550 1.550 1.550 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.550 1.570 1.570 1.570 1.570 1.570 1.570 1.570 1.570 1.570 1.570	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			JUNE			JULY			AUGUST		S	EPTEMBE	R
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 3 4	1,700 1,720 1,700	1,690 1,700 1,670	1,700 1,710 1,690	1,000 1,070 1,110	918 1,000 1,060	964 1,030 1,080	1,500 1,500 1,500	1,490 1,490 1,490	1,490 1,490 1,500	1,550 1,560 1,580	1,540 1,550 1,540	1,540 1,550 1,550
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8 9	1,680 1,620 1,630	1,440 1,510 1,610	1,610 1,590 1,620	1,230 1,270 1,280	1,200 1,220 1,260	1,210 1,240 1,270	1,480 1,480 1,490	1,470 1,480 1,480	1,480 1,480 1,480	1,580 1,580 1,580	1,560 1,570 1,580	1,560 1,570 1,580
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12 13 14	1,620 1,620 1,640	1,610 1,610 1,580	1,620 1,610 1,610	1,280 1,200 1,280	1,180 1,170 1,200	1,240 1,180 1,240	1,490 1,500 1,500	1,480 1,490 1,500	1,480 1,490 1,500	1,560 1,550 1,550	1,550 1,540 1,540	1,550 1,540 1,540
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17 18 19	1,680 1,680 1,700	1,620 1,580 1,580	1,640 1,630 1,670	1,370 1,380 1,410	1,350 1,370 1,380	1,360 1,370 1,400	1,520 1,530 1,530	1,510 1,510 1,520	1,520 1,520 1,520		 	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 23 24	1,730 1,600 798	1,580 798 361	1,690 1,250 458	1,450 1,380 1,400	1,380 1,370 1,380	1,420 1,380 1,390	1,520 1,520 1,530	1,510 1,510 1,520	1,510 1,510 1,520		 	
MONTH 1,730 361 1,390 1,480 838 1,300 1,540 1,470 1,500 1,590 1,530 1,560	27 28 29 30	601 705 777 838	526 601 705 777	559 651 744 809	1,450 1,460 1,470 1,470	1,440 1,450 1,460 1,460	1,440 1,450 1,460 1,460	1,530 1,540 1,530 1,530	1,520 1,520 1,520 1,520	1,530 1,530 1,530 1,530	 	 	
YEAR 2.420 361 1.620	MONTH YEAR	1,730 2,420	361 361	1,390 1.620	1,480	838	1,300	1,540	1,470	1,500	1,590	1,530	1,560

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

							OUGH SEPI					
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVE	MBER	DECE	MBER	JANU	ARY	FEBRU	JARY	MAI	RCH
$\frac{1}{2}$	8.3 8.3	8.2 8.2	8.5 8.5	8.3 8.2	8.3 8.3	8.2 8.2	8.0 8.0	7.9 7.9				
3	8.2	8.2 8.0	8.3	8.2	8.2	8.2	8.0	7.9				
4 5	8.3 8.4	8.0 8.1	8.3 8.4	8.2 8.2	8.2 8.2	8.2 8.2	$\begin{array}{c} 8.0\\ 8.0\end{array}$	8.0 7.9				
6		8.2		8.3	8.2		8.0	7.9				
7	8.3 8.5	8.2 8.3	8.4 8.4	8.3 8.3	8.2 8.2	8.1 8.1	8.0 8.0	7.9				
8 9	8.5 8.6	8.4 8.4	8.4 8.4	8.3 8.4	8.1 8.1	8.1 8.1	8.0 8.1	7.9 8.0				
10	8.6	8.5	8.4	8.4	8.2	8.1	8.1	8.0				
11	8.6	8.5	8.4	8.4	8.2	8.1	8.1	8.0				
12 13	8.7 8.7	8.6 8.6	8.4 8.4	8.4 8.3	8.2 8.1	8.1 8.1	8.1 8.0	8.0 8.0				
14	8.6	8.6	8.4	8.3	8.1	8.1						
15	8.6	8.6	8.4	8.3	8.1	8.1						
16 17	8.6 8.6	8.6 8.6	8.3 8.4	8.3 8.3	8.2 8.2	8.1 8.1						
18	8.6	8.6	8.3	8.3	8.2	8.1						
19 20	8.6 8.6	8.5 8.5	8.3 8.3	8.3 8.3	8.1 8.1	$\begin{array}{c} 8.0\\ 8.0\end{array}$						
20	8.6	8.5	8.3	8.3	8.1	8.0						
22	8.6	8.5	8.3	8.3	8.0	7.9						
23 24	8.6 8.6	8.5 8.5	8.4 8.4	8.3 8.3	$\begin{array}{c} 8.0\\ 8.0\end{array}$	$\begin{array}{c} 8.0\\ 8.0\end{array}$						
25	8.6	8.5	8.4	8.3	8.0	8.0						
26	8.5	8.4	8.3	8.3	8.0	7.9						
27 28	8.4 8.5	8.3 8.4	8.3 8.3	8.2 8.2	7.9 7.9	7.9 7.9						
29	8.4	8.4	8.3	8.2	7.9	7.8						
30 31	8.4 8.4	8.4 8.3	8.3	8.2	7.9 8.0	7.8 7.9						
MONTH	8.7	8.0	8.5	8.2	8.3	7.8	8.1	7.9				
MONTH	8.7 Api	8.0 RIL	8.5 M/	8.2	8.3 JU	7.8 NE	8.1 ЛЛ	7.9 LY	 AUG	 UST	 SEPTE	 MBER
	API	RIL	MA	ΑY	JU	NE	JUI	LY	 AUG 8 5		 SEPTE 8 3	
1 2	API 	RIL 	MA 8.8 8.8	AY 8.7 8.7	JU1 8.4 8.3	NE 8.3 8.2	JUI 7.8 8.0	LY 7.8 7.8	8.5 8.4	8.4 8.3	8.3 8.3	8.2 8.1
1 2 3	API 	RIL 	MA 8.8 8.8 8.8	8.7 8.7 8.7 8.7	JUI 8.4 8.3 8.2	NE 8.3 8.2 8.2	JUI 7.8 8.0 8.1	7.8 7.8 8.0	8.5 8.4 8.4	8.4 8.3 8.3	8.3 8.3 8.3	8.2 8.1 8.1
1 2	API 	RIL 	MA 8.8 8.8	AY 8.7 8.7	JU1 8.4 8.3	NE 8.3 8.2	JUI 7.8 8.0	LY 7.8 7.8	8.5 8.4	8.4 8.3	8.3 8.3	8.2 8.1
1 2 3 4 5 6	API 	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.6	JUJ 8.4 8.3 8.2 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2	7.8 7.8 8.0 8.1 8.1 8.1	8.5 8.4 8.4 8.4 8.3 8.5	8.4 8.3 8.3 8.2 8.2	8.3 8.3 8.2 8.2 8.2	8.2 8.1 8.1 8.1 8.0 8.1
1 2 3 4 5 6 7	API 	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.6 8.6	JUJ 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2	7.8 7.8 8.0 8.1 8.1 8.1 8.1	8.5 8.4 8.4 8.3 8.5 8.5	8.4 8.3 8.3 8.2 8.2 8.2 8.4	8.3 8.3 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0
1 2 3 4 5 6 7 8 9	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.6 8.5 8.6	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.1
1 2 3 4 5 6 7 8 9 10	APP 	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.6 8.5 8.6 8.5	JU1 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.0
1 2 3 4 5 6 7 8 9 10 11	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.2	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.2 8.3 8.2	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.7 8.6 8.7 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.5 8.6 8.6 8.6 8.5 8.6 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.4	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.5 \\ 8.4 \\ 8.4 \\ 8.3 \\ 8.5 \\ 8.5 \\ 8.5 \\ 8.5 \\ 8.4 \\ 8.4 \\ 8.4 \\ 8.4 \\ 8.4 \end{array}$	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.2 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\end{array} $	APP	<pre>XIL</pre>	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.4 8.4	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\end{array} $	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.7 8.6 8.7 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.4 8.4 8.4 8.4	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4	$\begin{array}{c} 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4$	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $	APP	RIL 8.5 8.5 8.4	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4	7.8 7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	APP	RIL -	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.7 8.6 8.7 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.4 8.5	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	APP	RIL 	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.6 8.6	7.8 7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.4 8.4 8.4 8.5 8.5	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	APP	RIL -	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.6 8.6 8.6 8.6 8.7	7.8 7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.5 8.5 8.6 8.6	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.5	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.3 8.3 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3 8.5 8.3 8.3 8.3 8.4 8.5 8.3 8.3 8.3 8.5 8.4 8.3 8.3 8.3 8.5 8.4 8.3 8.3 8.3 8.5 8.4 8.3 8.3 8.3 8.5 8.4 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.7 8.7	7.8 7.8 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4 8.5 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.6	7.8 7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.5 8.6 8.5 8.6 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.4 8.3 8.2 	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $	APF	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.5 8.4 8.3 8.3 8.5 8.4 8.3 8.3 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.5 8.6 8.6 8.6 8.6	8.5 8.4 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.5 8.4 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.5 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5	8.5 8.4 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.2 8.3 8.4 8.3 8.2 8.3 8.4 8.3 8.2 8.3 8.4 8.3 8.2 8.2 8.1 8.2 	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.8 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.3 8.3 8.3	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.4 8.4 8.5 8.4 8.5 8.4 8.5 8.5	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\\31\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.3 8.1 8.3 8.3 8.3 8.4 8.5 8.3 8.3 8.4 8.5 8.3 8.3 8.4 8.5 8.3 8.3 8.4 8.5 8.4 8.5 8.3 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.6 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5	7.8 7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.5 8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.5 8.4 8.3 8.3 8.3 8.3	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.5 8.5	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8	8.2 8.1 8.1 8.0 8.1 8.0 8.0 8.0 8.1 8.2 <tr tr=""></tr>
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	APP	RIL 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MA 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.7	AY 8.7 8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JUI 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.8 8.1 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.3 8.3 8.3	 8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.4 8.4 8.5 8.4 8.5 8.4 8.5 8.5	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		Ν	IOVEMBE	R	Γ	DECEMBE	R		JANUARY	7
1 2 3 4 5	7.3 6.7 5.1 8.7 10.3	4.6 4.8 1.5 3.8 5.9	6.1 6.1 3.5 6.7 7.9	19.7 18.8 16.8 17.2	17.7 15.5 15.5 15.9	18.6 17.0 16.3 16.5	21.7 20.7 20.9 22.0 22.2	20.0 19.3 19.1 20.2 21.0	20.7 19.8 20.0 20.9 21.4	26.0 25.2 26.6 26.6 26.0	23.4 23.9 24.2 24.6 24.0	24.4 24.5 25.4 25.6 25.2
6 7 8 9 10	11.1 12.5 12.5 13.1 13.2	7.7 10.1 10.8 11.9 12.1	9.6 11.1 11.6 12.4 12.9	17.1 16.8 16.9 17.1 17.1	15.9 15.8 15.0 15.6 14.7	16.5 16.2 15.9 16.3 16.0	21.8 21.0 22.2 22.9	19.7 19.6 20.0 20.4	20.9 20.3 21.0 21.6	24.7 25.6 27.2 28.2 28.5	21.9 21.9 23.1 24.2 25.1	23.6 23.7 25.0 26.1 27.0
11 12 13 14 15	13.2 14.1 15.6 15.4 14.6	12.1 11.3 13.7 14.2 12.8	12.8 12.7 14.6 14.7 13.8	17.9 17.8 18.6 18.5 19.1	16.1 16.7 16.7 16.4 17.4	17.0 17.3 17.4 17.5 18.0	23.6 23.1 22.8 22.9 23.2	21.1 21.5 21.4 20.8 21.1	22.4 22.3 21.9 21.5 21.9	29.4 29.2 28.4	26.3 26.5 25.4	28.0 28.2 27.1
16 17 18 19 20	15.6 16.4 15.7 15.7 16.2	14.0 14.3 14.2 14.0 15.4	14.7 15.2 14.9 14.9 15.8	19.2 19.6 18.9 17.9 17.6	18.6 18.2 16.9 17.0 16.2	18.9 18.9 17.7 17.4 16.9	23.5 22.9 22.6 21.3 19.8	21.6 21.5 20.6 19.1 18.2	22.5 22.0 21.5 20.0 19.0	 	 	
21 22 23 24 25	15.9 16.0 15.9 16.5 16.4	15.0 15.2 15.3 15.9 15.8	15.4 15.6 15.7 16.3 16.2	17.0 16.6 16.6 18.9 20.1	15.2 15.6 16.0 16.4 18.9	15.9 16.0 16.3 17.3 19.4	19.4 19.1 20.3 22.1 22.4	17.3 16.8 18.3 19.7 20.7	18.0 17.8 19.2 20.4 21.5	 	 	
26 27 28 29 30	16.2 16.2 15.7 15.3 16.4 18.1	15.4 15.2 15.0 14.6 14.6 16.3	15.9 15.7 15.4 15.0 15.5 17.2	21.4 21.2 21.4 21.0 20.8	20.1 20.0 20.6 19.5 19.2	20.8 20.6 21.0 20.4 19.9	23.4 23.7 23.7 23.6 23.2 25.9	22.0 22.6 22.1 21.4 21.2 22.6	22.7 23.1 23.1 22.7 22.5 23.7	 	 	
31	10.1											
31 MONTH	18.1	1.5	13.1	21.4	14.7	17.7	25.9	16.8	21.2	29.4	21.9	25.7
	18.1	1.5 FEBRUARY		21.4	14.7 MARCH	17.7	25.9	16.8 APRIL	21.2	29.4	21.9 MAY	25.7
	18.1			21.4 		17.7 	25.9 		21.2 	29.4 15.2 15.4 14.5 12.4 13.1		25.7 13.0 12.3 13.1 11.0 11.5
MONTH 1 2 3 4	18.1 	FEBRUARY 	(MARCH 	 	 	APRIL 	 	15.2 15.4 14.5 12.4	MAY 11.5 10.6 11.9 10.0	13.0 12.3 13.1 11.0
MONTH 1 2 3 4 5 6 7 8 9	18.1 	FEBRUARY 	 <li< td=""><td> </td><td>MARCH</td><td> </td><td></td><td>APRIL </td><td></td><td>15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0</td><td>MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2</td><td>13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4</td></li<>	 	MARCH	 		APRIL 		15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4
MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14	18.1 	FEBRUARY 	 <td></td><td>MARCH</td><td></td><td></td><td>APRIL</td><td></td><td>15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0 11.9 13.0 13.2 12.2 10.8</td><td>MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8</td><td>13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7</td>		MARCH			APRIL		15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0 11.9 13.0 13.2 12.2 10.8	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7
MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	18.1 	FEBRUARY	 <td></td><td>MARCH</td><td></td><td> 13.0 12.0 12.1</td><td>APRIL 11.5 10.5 11.6</td><td> 12.2 11.3 11.8</td><td>$\begin{array}{c} 15.2\\ 15.4\\ 14.5\\ 12.4\\ 13.1\\ 14.5\\ 14.2\\ 13.5\\ 12.0\\ 11.9\\ 13.0\\ 13.2\\ 12.2\\ 10.8\\ 11.4\\ 10.8\\ 10.9\\ 10.9\\ 10.1\\ \end{array}$</td><td>MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8</td><td>$\begin{array}{c} 13.0\\ 12.3\\ 13.1\\ 11.0\\ 11.5\\ 12.5\\ 12.8\\ 11.2\\ 10.4\\ 10.7\\ 11.6\\ 11.8\\ 10.2\\ 9.7\\ 9.9\\ 8.9\\ 8.7\\ 9.0\\ 8.9\end{array}$</td>		MARCH		 13.0 12.0 12.1	APRIL 11.5 10.5 11.6	 12.2 11.3 11.8	$\begin{array}{c} 15.2\\ 15.4\\ 14.5\\ 12.4\\ 13.1\\ 14.5\\ 14.2\\ 13.5\\ 12.0\\ 11.9\\ 13.0\\ 13.2\\ 12.2\\ 10.8\\ 11.4\\ 10.8\\ 10.9\\ 10.9\\ 10.1\\ \end{array}$	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8	$\begin{array}{c} 13.0\\ 12.3\\ 13.1\\ 11.0\\ 11.5\\ 12.5\\ 12.8\\ 11.2\\ 10.4\\ 10.7\\ 11.6\\ 11.8\\ 10.2\\ 9.7\\ 9.9\\ 8.9\\ 8.7\\ 9.0\\ 8.9\end{array}$
MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY	 <td></td><td>MARCH</td><td></td><td> 13.0 12.0 12.1 11.7 11.6 11.0 10.6 10.7</td><td>APRIL 11.5 10.5 11.6 11.2 11.0 10.3 9.6 8.9</td><td> 12.2 11.3 11.8 11.4 11.4 10.7 10.0 9.7</td><td>$\begin{array}{c} 15.2\\ 15.4\\ 14.5\\ 12.4\\ 13.1\\ 14.5\\ 14.2\\ 13.5\\ 12.0\\ 11.9\\ 13.0\\ 13.2\\ 12.2\\ 10.8\\ 11.4\\ 10.8\\ 10.9\\ 10.9\\ 10.1\\ 12.3\\ 11.2\\ 11.1\\ 10.7\\ 10.0\\ \end{array}$</td><td>MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8 9.1 8.9 8.0 7.7 7.6</td><td>$\begin{array}{c} 13.0\\ 12.3\\ 13.1\\ 11.0\\ 11.5\\ 12.5\\ 12.8\\ 11.2\\ 10.4\\ 10.7\\ 11.6\\ 11.8\\ 10.2\\ 9.7\\ 9.9\\ 8.9\\ 8.7\\ 9.0\\ 8.9\\ 8.7\\ 9.0\\ 8.9\\ 10.5\\ 10.1\\ 9.4\\ 9.3\\ 8.7 \end{array}$</td>		MARCH		 13.0 12.0 12.1 11.7 11.6 11.0 10.6 10.7	APRIL 11.5 10.5 11.6 11.2 11.0 10.3 9.6 8.9	 12.2 11.3 11.8 11.4 11.4 10.7 10.0 9.7	$\begin{array}{c} 15.2\\ 15.4\\ 14.5\\ 12.4\\ 13.1\\ 14.5\\ 14.2\\ 13.5\\ 12.0\\ 11.9\\ 13.0\\ 13.2\\ 12.2\\ 10.8\\ 11.4\\ 10.8\\ 10.9\\ 10.9\\ 10.1\\ 12.3\\ 11.2\\ 11.1\\ 10.7\\ 10.0\\ \end{array}$	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8 9.1 8.9 8.0 7.7 7.6	$\begin{array}{c} 13.0\\ 12.3\\ 13.1\\ 11.0\\ 11.5\\ 12.5\\ 12.8\\ 11.2\\ 10.4\\ 10.7\\ 11.6\\ 11.8\\ 10.2\\ 9.7\\ 9.9\\ 8.9\\ 8.7\\ 9.0\\ 8.9\\ 8.7\\ 9.0\\ 8.9\\ 10.5\\ 10.1\\ 9.4\\ 9.3\\ 8.7 \end{array}$

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1 2 3 4 5	11.6 10.4 9.8 10.2 10.3	8.6 7.2 8.0 9.0 7.9	10.0 8.7 9.1 9.5 9.2	6.1 7.1 7.6 7.9 8.2	4.8 5.0 5.0 5.8 5.9	5.4 5.9 6.2 6.7 7.0	9.8 10.1 10.5 10.5 10.1	6.7 7.0 7.0 7.1 6.9	8.2 8.5 8.6 8.7 8.4	8.0 7.9 8.1 8.1 8.0	6.5 6.0 6.2 5.5 5.7	7.2 6.8 7.0 6.8 6.9
6 7 8 9 10	9.6 9.6 10.2 9.6 8.3	7.4 7.5 7.4 7.4 6.9	8.4 8.6 8.7 8.3 7.5	7.8 8.0 7.8 7.5 8.1	5.9 5.9 6.2 6.4 6.8	6.8 6.9 7.0 6.9 7.5	11.1 10.9 10.1 9.5 10.0	6.9 6.9 6.7 6.6 6.4	8.7 9.0 8.6 7.9 7.9	7.9 7.8 8.4 8.5 8.9	5.5 5.3 6.2 6.7 7.3	6.7 6.5 7.1 7.5 8.0
11 12 13 14 15	10.4 12.4 13.8 19.4 18.4	7.2 8.0 8.2 8.8 11.2	8.5 9.7 10.7 12.9 14.8	7.8 7.2 6.9 6.6 6.7	7.1 6.7 6.5 6.3 6.1	7.4 7.0 6.7 6.4 6.4	10.1 9.9 9.4 9.2 9.1	6.7 6.5 6.6 6.7 6.5	8.4 8.3 8.2 7.9 7.8	9.0 9.8 9.6 9.9 9.8	7.5 6.9 8.1 8.2 8.2	8.1 8.7 8.9 9.0 8.9
16 17 18 19 20	17.1 7.8 9.2 10.2 10.8	7.1 3.9 3.4 6.9 7.3	10.9 5.6 6.0 8.2 9.0	6.8 6.6 7.4 7.5 7.1	6.1 6.0 6.2 6.2 6.0	6.4 6.3 6.7 6.7 6.5	8.8 8.6 8.1 8.0 7.6	6.4 6.5 6.2 6.4 5.7	7.7 7.7 7.2 7.2 6.6	10.3 	8.3 	9.0
21 22 23 24 25	10.9 8.9 7.4 4.5 3.5	6.2 7.0 4.5 3.5 3.1	7.8 7.8 6.3 4.0 3.3	7.6 8.0 8.9 9.5 8.7	6.1 6.8 7.0 7.2 7.2	6.8 7.3 7.8 8.2 7.9	7.4 7.9 8.1 7.3 7.5	6.1 7.1 7.0 5.7 6.0	6.7 7.5 7.6 6.5 6.6	 	 	
26 27 28 29 30 31	4.6 4.6 4.8 5.2 5.4	3.5 4.4 4.4 4.6 4.8	4.0 4.5 4.5 4.9 5.1	8.8 8.7 9.6 8.8 9.5 9.9	6.9 6.9 7.0 6.8 6.5 6.7	7.7 7.8 8.1 7.8 7.9 8.2	8.0 7.0 8.3 7.1 8.3 8.5	5.7 5.0 5.4 5.6 5.8 6.8	6.5 5.8 6.5 6.4 6.8 7.5	 	 	
MONTH YEAR	19.4 29.4	3.1 1.5	7.9 12.4	9.9	4.8	7.0	11.1	5.0	7.6	10.3	5.3	7.7

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2		OCTOBER			OVEMBE			ECEMBE			JANUARY	
1 2 3 4 5	79 85 100 72 120	41 33 33 30 23	61 55 52 45 49	13 35 32 22	7.0 10 13 15 	12 27 23 23 16	13 15 16 28 16	9.0 11 11 8.0 8.0	8.8 9.8 11 8.9 7.8	8.0 9.0 7.0 6.0 6.0	4.0 5.0 5.0 5.0 4.0	5.6 5.9 5.6 5.8 5.4
6 7 8 9 10	210 60 34 32 240	17 17 19 17 16	29 29 25 24 25	16 20 19 18 19	12 12 12 13 14	14 15 16 14 16	14 12 10 12	7.0 7.0 7.0 6.0	7.7 6.9 6.1 5.8 5.8	6.0 7.0 7.0 8.0 8.0	$\begin{array}{c} 4.0 \\ 4.0 \\ 4.0 \\ 4.0 \\ 4.0 \\ 4.0 \end{array}$	5.2 5.3 4.9 5.6 5.8
11 12 13 14 15	34 35 43 29 36	19 22 21 19 19	28 29 30 27 24	19 24 26 20 21	13 14 14 12 14	15 15 20 14 17	8.0 8.0 8.0 11 8.0	5.0 5.0 5.0 5.0 5.0	6.4 6.3 6.1 6.1 5.7	9.0 9.0 8.0	4.0 4.0 5.0	5.0 5.6 6.1
16 17 18 19 20	26 20 33 23 30	15 14 15 14 14	21 19 23 20 20	16 15 14 14 21	12 10 11 9.0 10	13 11 11 9.9 11	12 10 8.0 7.0 18	5.0 5.0 5.0 5.0 5.0	6.2 6.4 6.1 5.9 6.0	 	 	
21 22 23 24 25	21 21 20 19 16	11 12 10 9.0 9.0	18 18 16 15 14	24 16 21 18 27	12 13 13 13 11	14 12 13 13 12	8.0 9.0 11 8.0 7.0	5.0 5.0 5.0 5.0 5.0	5.8 5.8 6.7 6.0 5.9	 	 	
26 27 28 29 30 31	22 15 14 20 16 16	9.0 8.0 9.0 9.0 10 6.0	15 13 14 16 16 13	15 14 14 13 14	11 10 9.0 9.0 9.0	11 10 9.6 8.8 8.8	$8.0 \\ 8.0 \\ 10 \\ 10 \\ 8.0 \\ 8.0 \\ 8.0$	5.0 5.0 6.0 6.0 5.0 5.0	6.2 6.5 7.1 7.0 6.6 6.3	 	 	
MONTH	240	6.0	26	35	7.0	14	28	5.0	6.8	9.0	4.0	5.5
		6.0 FEBRUARY			7.0 MARCH	14	28	5.0 APRIL	6.8	9.0	MAY	
MONTH 1 2 3 4 5						14 	28 		6.8 	9.0 		5.5 47 54 53 49 44
1 2 3 4	 	FEBRUARY 	 	 	MARCH 	 	 	APRIL 	 	 	MAY 	47 54 53 49
1 2 3 4 5 6 7 8 9		FEBRUARY 		 	MARCH		 	APRIL 		 	MAY 	47 54 53 49 44 35 44 47 46
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\end{array} $		FEBRUARY 			MARCH			APRIL		 	MAY	47 54 53 49 44 35 44 47 46 43 31 36 42 42
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $		FEBRUARY			MARCH			APRIL	 53 53 75	 	MAY	$\begin{array}{c} 47\\ 54\\ 53\\ 49\\ 44\\ 35\\ 44\\ 47\\ 46\\ 43\\ 31\\ 36\\ 42\\ 46\\ 51\\ 47\\ 49\\ 60\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $		FEBRUARY			MARCH			APRIL	 53 53 75 150 87 78 81 83	 73 80 65 65	MAY	$\begin{array}{c} 47\\ 54\\ 53\\ 49\\ 44\\ 35\\ 44\\ 47\\ 46\\ 43\\ 31\\ 36\\ 42\\ 42\\ 46\\ 51\\ 47\\ 49\\ 60\\ 47\\ 60\\ 62\\ 57\\ 61\\ \end{array}$

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	,	S	EPTEMBI	ER
1 2 3 4 5	52 200 180 72 120	36 42 41 44 48	42 56 60 52 67	31 28 910 85 34	19 16 19 29 27	24 21 26 32 29	 	 	37 36 34 30 29	 	 	30 16
6 7 8 9 10	83 89 90 75 110	45 35 38 44 62	67 66 60 57 85	44 46 53 58 58	33 41 42 48 54	35 41 45 50 52	 	 	31 36 36 38 40	 	 	12 11 16 17 19
11 12 13 14 15	88 110 110 120 87	55 52 52 62 60	73 78 79 91 76	54 53 51 60 69	48 43 43 47 54	48 44 43 51 57	 	 	38 41 33 32 30	 	 	20 11 8.7 8.4 5.4
16 17 18 19 20	99 110 81 63 110	45 51 35 31 39	81 77 63 39 58	65 66 65 63 68	52 51 52 50 50	53 53 52 50 52	 	 	26 25 24 22 20	 	 	6.1
21 22 23 24 25	86 90 680 570 190	34 38 78 190 70	58 65 250 300 120	66 	49 	51 49 51 50 50	 	 	18 17 19 21 21	 	 	
26 27 28 29 30 31	70 36 28 27 32	36 26 23 24 23	49 29 24 25 27	 	 	47 45 42 40 38 37	 	 	21 25 25 34	 	 	
MONTH YEAR	680 910	23 4.0	76 34	910	16	44			29			14

LOCATION.--Lat 46°04'30", long 96°18'24", in SE¹/₄ NE¹/₄ sec. 15, T. 130 N., R. 45 W., Wilkin County, Hydrologic Unit 9020101, 2.5 miles north of Nashua on Wilkin County 17.

DRAINAGE AREA.--99.2 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tue		aII	Specif			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06 DEC	0800	1.5	14	9.7	7.4	1,150	4.5	6.5	0.69	< 0.050	< 0.050	0.090	< 0.010
11	0920	2.5	1.0	11.0	7.4	2,000	0.0	-0.2	1.6	< 0.050	< 0.050	0.350	< 0.010
JAN 2002 15 FEB	0920	1.3	8.0	12.6	7.6	2,510	-5.0	-0.3	2.1	< 0.050	< 0.050	0.530	<0.010
12 APR	0915	1.0	7.0	10.7	7.6	2,320	-6.1	-0.3	2.1	< 0.050	< 0.050	0.120	< 0.010
16	0915	18	29	8.5	7.7	1,240	22.0	15.1	1.9	< 0.050	0.060	0.890	0.020
MAY 14	0905	31	32	11.4	8.3	1,690	10.5	11.8	1.9	< 0.050	< 0.050	2.10	0.060
JUN 04	0915	3.4	88	7.4	8.1	1,700	13.3	13.0	2.2	0.090	0.090	< 0.050	<0.010
JUL 09 23	1000 0910	87 35	40 18	4.6 7.7	7.5 7.8	658 1,080	26.2 21.0	24.5 20.0	$1.4 \\ 2.0$	0.120 0.180	0.120 0.180	$\begin{array}{c} 1.30\\ 0.070 \end{array}$	0.120 0.050
AUG 06 20	0920 0900	12 6.2	48 41	6.7 7.5	7.8 7.8	1,190 1,280	17.7 18.5	20.0 16.4	2.2 1.9	0.090 <0.050	0.080 <0.050	0.210 0.170	0.020 <0.010
SEP 10 24	0915 0855	1.8 E.01	36 30	6.5 9.5	7.9 8.1	1,380 1,530	17.0 9.1	19.1 9.7	1.9 1.9	0.080 <0.050	0.110 <0.050	0.160 <0.050	<0.010 <0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06	0.084	0.143	<10	15k	66k	7.59	98	14
DEC								
11	0.100	0.157				6.17	91	7
JAN 2002	0.026	0 125				20.7	99	8
15 FEB	0.036	0.135				30.7	99	0
12	0.022	0.168				63.7	94	25
APR	0.022	0.100				00.7	<i></i>	20
16	0.081	0.210	E4k	31k	37k	25.6	98	29
MAY								
14	0.056	0.136	40k	35k	88	4.91	96	33
JUN	0.110	0.225	5(0	520	295	17.0	100	00
04 JUL	0.119	0.325	560	520	285	17.2	100	80
09	0.393	0.546	300k	600	2,900	8.05	87	49
23	0.278	0.422	83k	140	1,240	18.8	96	64
AUG	0.270	0==	oon	1.0	1,2.0	1010	20	0.
06	0.204	0.369	<2	220	740	13.9	100	99
20	0.161	0.315			2,060k	18.0	100	85
SEP								
10	0.216	0.376	270	240	940	24.9	100	68
24	0.152	0.322	62	100	184	24.8	98	57

Remark codes used in this table:

< -- Less than E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
DEC 2002													
10	0900	0.38	11	13.4	7.6	2,240	-4.3	-0.2	2.1	0.080	0.090	0.180	< 0.010
MAR 2003													
25	1630	2.6	8.0		8.0	920	7.5	1.9	2.1	0.500	0.500	0.490	0.040
APR	1540	0.50	20	10.0	0.4	1 070	20.2	15.5		0.050	0.050	0.050	0.010
15	1540	0.52	30	12.3	8.4	1,070	20.3	15.7	1.4	< 0.050	< 0.050	< 0.050	< 0.010
MAY 20	0850	12	60	9.2	8.0	1,710	8.0	10.6	1.8	< 0.050	< 0.050	< 0.050	< 0.010
JUN													
03	1345	5.0	48	10.1	8.2	1,580	23.8	20.5	2.0	< 0.050	0.050	< 0.050	< 0.010
17	1615	3.3	66	9.3	8.3	1,630	29.5	30.0	2.4	< 0.050	< 0.050	< 0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
DEC 2002								
10	0.024	0.095				8.65	92	23
MAR 2003								
25	0.005	0.229				4.71	94	9
APR	0.040				o -		~ -	
15	0.040	0.131	140	140	95	12.1	95	14
MAY	0.025	0.420	F 4001			0.00		10
20	0.035	0.130	E100k	110	161	9.00	99	43
JUN								
03	0.089	0.210	E300k	190	124	18.7	100	35
17	0.122	0.278	1,100	1,800	1,680	37.2	100	38

Remark codes used in this table: < -- Less than E -- Estimated value

05051000 RABBIT RIVER AT CAMPBELL, MN

LOCATION.--Lat 46°05'40", long 96°24'40", in SE¹/₄ SE¹/₄ sec. 2, T. 130 N., R. 46 W., Wilkin County, Hydrologic Unit 9020101, at Campbell. DRAINAGE AREA.--221 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001	00.45	E22	10	11.0	7.0	1.520	7.4	7.0	1 1	-0.050	-0.050	-0.050	-0.010
06 DEC	0945	E22	12	11.0	7.9	1,520	7.4	7.0	1.1	< 0.050	< 0.050	< 0.050	< 0.010
12 JAN 2002	1000	2.7	3.0	13.4	7.7	2,110	0.2	0.2	1.1	< 0.050	< 0.050	0.060	< 0.010
15 FEB	1050	1.6	14	10.6	7.4	2,460	-8.1	0.1	1.7	0.100	0.110	0.440	< 0.010
12 MAR	1040	E1.2	21	12.4	7.4	2,400	-5.0	0.0	2.7	< 0.050	< 0.050	0.130	< 0.010
19	0945		9.0	11.0	7.5	1,160	1.0	-0.2	1.1	0.170	0.180	0.750	0.020
APR 16	1135	24	21	9.0	7.8	1,080	26.4	15.3	1.4	0.060	0.070	1.10	0.030
MAY 14 JUN	1100	57	28	10.7	8.1	1,690	14.5	11.6	2.0	0.110	0.170	2.50	0.090
04 JUL	1055	2.6	49	5.1	7.7	1,490	17.0	15.0	2.0	0.290	0.290	0.290	0.050
09	1130	170	59	4.7	7.7	950	28.0	25.0	1.8	0.090	0.090	1.30	0.110
23 AUG	1045	38	17	6.6	7.7	1,070	20.0	21.2	1.9	0.090	0.070	0.100	0.030
06	1030	9.4	27	6.1	7.8	1,230	19.5	21.4	1.9	0.080	0.070	0.180	0.020
20 SEP	0940	E6.2	27	6.4	7.8	1,220	19.2	18.2	1.9	<0.050	<0.050	0.150	< 0.010
10	1015	E5.2	9.0	4.4	7.7	1,300	20.7	19.8	1.5	0.070	0.120	< 0.050	<0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06	0.051	0.129	<10	23k	28k	24.4	94	12
DEC								
12	0.024	0.087				12.3	66	41
JAN 2002								
15	0.045	0.138				30.7	71	55
FEB								
12	0.008	0.334				17.9	98	9
MAR	0.104	0.170				(21	00	0
19	0.104	0.170				6.31	99	9
APR	0.101	0.216	1.01-	451-	100	22.7	0.9	21
16 MAY	0.101	0.216	10k	45k	100	32.7	98	21
14	0.074	0.174	E4k	40k	180	12.4	98	49
JUN	0.074	0.174	LHK	TOK	100	12.4	70	T 2
04	0.180	0.342	100k	390	680	19.8	100	44
JUL	0.100	0.512	TOOK	570	000	17.0	100	
09	0.274	0.528	520	460	3,100	33.8	96	80
23	0.227	0.400	<5k	200	786	36.1	94	69
AUG								
06	0.187	0.350	230k	190	700	32.8	98	34
20	0.150	0.284	460	600	1,480	21.8	99	57
SEP								
10	0.227	0.329	150	190	4,100	14.5	99	14
Demonstrate		41. 1. 4. 1. 1						

Remark codes used in this table: < -- Less than E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
MAY 2003 20 JUN 03 17	1040 1655 1700	12 4.7 E3.3	110 53 20	7.8 6.5 6.0	8.0 7.7 8.1	1,880 1,800 1,810	13.8 21.7 30.6	13.2 18.0 25.0	2.1 2.0 2.2	<0.050 <0.050 <0.050	0.060 <0.050 <0.050	0.050 <0.050 <0.050	0.010 <0.010 <0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
MAY 2003 20	0.044	0.212	E28k	E190k	E100k	23.6	98	104
JUN 03 17	0.085 0.142	0.215 0.269	E140k 120	150 260	440 248	25.4 34.6	99 90	53 34

Remark codes used in this table: < -- Less than E -- Estimated value

LOCATION.--Lat 46°06'43", long 96°29'36", in SE¹/₄ SE¹/₄ sec. 31, T. 131 N., R. 46 W., Wilkin County, Hydrologic Unit 09020101, 4 miles east of Campbell on U.S. Highway 75.

DRAINAGE AREA.--298 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		pH,	Specif.			Ammonia +			Nitrite +	
Date	Time	Instan- taneous dis- charge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	water, unfltrd field, std units (00400)	conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001		· /	· /	· /	· /	. ,	· /	. ,	. ,		· /	. ,	· /
06 DEC	1035	7.7	30	10.4	7.8	1,230	9.0	6.8	1.1	< 0.050	< 0.050	< 0.050	<0.010
11 JAN 2002	1530	3.0	4.0	13.2	7.7	1,720	4.5	0.3	0.89	< 0.050	< 0.050	< 0.050	< 0.010
16	0930	2.0	12	12.9	7.5	2,520	-6.9	0.0	1.5	0.050	< 0.050	0.250	< 0.010
FEB 13	0915	0.90	5.0	12.5	7.4	2,620	-0.8	-0.2	2.3	< 0.050	< 0.050	< 0.050	< 0.010
MAR 19	1650	6.0	0.0	16.5	7.8	1,180	<-5.0	0.0	1.0	< 0.050	< 0.050	0.430	0.010
APR 16	1710	35	42	11.8	8.0	970	28.8	19.4	1.6	< 0.050	< 0.050	1.20	0.050
MAY 14	1550	81	24	13.9	8.1	1,690	23.2	15.3	1.8	< 0.050	0.060	2.70	0.110
JUN 04	1650	4.0	98	4.9	7.8	1,030	23.0	20.0	2.3	0.460	0.450	0.420	0.080
JUL 10 23	0950 1650	648 61	130 41	5.1 5.7	7.7 7.6	535 964	19.8 18.0	23.9 21.4	1.4 2.1	$0.100 \\ 0.070$	$0.100 \\ 0.080$	0.590 0.150	0.060 0.030
AUG 06 20	1615 1505	16 1.3	77 83	8.7 7.9	8.2 8.1	1,210 1,200	23.9 24.7	21.6 20.5	$2.6 \\ 2.0$	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
SEP 10	1545	E7.0	63	6.4	8.0	1,110	25.4	21.6	2.2	0.090	0.150	<0.050	<0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06	0.134	0.213	37k	83k	50k	19.1	98	18
DEC								_
11 JAN 2002	0.061	0.115				19.8	99	7
JAN 2002 16	0.034	0.109				30.2	73	63
FEB	0.054	0.109				50.2	15	05
13	< 0.005	0.210				12.9		
MAR								
19	0.080	0.153				11.6	96	12
APR 16	0.105	0.257	E5k	25k	20k	41.3	98	38
MAY	0.105	0.237	LJK	2.JK	20K	41.5	90	50
14	0.093	0.182	26k	12k	66	9.68	99	24
JUN								
04	0.330	0.582	25k	66k	231	34.5	100	79
JUL		0.402		-	2 000			105
10	0.028	0.493	900	700k	3,000	12.5	98	125
23 AUG	0.320	0.561	<5k	50k	1,420	43.6	99	90
06	0.193	0.492			400	36.5	100	104
20	0.179	0.391	E2k	E2k	155	46.0	99	59
SEP	0.177	0.571	LZK	LLK	155	10.0	//	57
10	0.357	0.622	200k	86	780	46.7	88	103

Remark codes used in this table:

< -- Less than E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen mg/L (00300)	units	wat uS/ 25 d	duc- ce, unf cm eg C	Temper ature, air, deg C (00020	atu wa dej	aper- ure, ter, g C 010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		er, d, /L N	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
MAY 2003 20 JUN	1650	17	85	9.8	8.3	2,0	000	17.6	14	1.7	2.2	< 0.05	50	<0.050	< 0.050	0.010
04	1230	E6.0	54	8.4	8.2	1,9	70	22.8	19	9.5	2.3	< 0.05	50	< 0.050	< 0.050	< 0.010
		Da MAY 20 JUN 04 Rema	2003 . 0.0	08- ate, P ter, pl rd, v g/L u P 1 571) (0 025 (0 07 (0	Phos- m horus, vater, v vater, v ng/L 10 ng/L 10 0665) (3 0.192 0.306	2 coli, I-TEC MF, vater, col/ 00 mL (1633) <10 3k	Fec. coli forr M-F 0.7u l col 100 r (3162 <10 201	i- 9 n, to FC MF // mL 10 25) (3 0	Fecal strep- pcoccci KF MF, col/ 00 mL 31673) 13k 14k	Chlor phyll phytr plant ton acid ug/I (3221 56.4 32.2	l a se o- m k- si , dia m, per L <.06 11) (70	epnd. di- ent, eve metr cent 33mm 331) 00 97	Sus pend- sedi mer conce tratic mg/ (8015 73 49	ed i- nt en- on L 54)		

his table: Remark codes used in th
 -- Less than
 E -- Estimated value

LOCATION.--Lat 46°23'55", long 96°39'08", in NW¹/₄ NW¹/₄ sec. 30, T. 134 N., R. 47 W., Wilkin County, Hydrologic Unit 09020104, 2 miles north of Brushvale.

DRAINAGE AREA.--19 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April through May 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxyger mg/L (00300	n, std units	; con d tar , wat uS ; 25 c	t unf /cm degC	Temper ature, air, deg C (00020)	atu wa deg	nper- ire,	Ammonia + org-N, water, unfltrd mg/L as N (00625)		er, d, /L N	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
APR 2002 15 MAY	1155	3.5	0.0	11.4	7.5	:	515	24.0	15	5.3	0.84	< 0.05	50	< 0.050	0.900	0.020
13	1135	3.8	0.0	13.7	7.6	1,4	410	18.0	13	3.2	1.5	< 0.05	50	< 0.050	1.80	0.020
		Da APR : 15 MAY 13 Bama	ph ph wa flt as (00 2002 . 0.1	tter, p rd, g/L 5 671) (146 085	Phos- phorus, water, unfltrd mg/L 00665) 0.214 0.132	E coli, m-TEC MF, water, col/ 100 mL 31633) E1k E1k	Fec: coli form M-F 0.7u l col. 100 r (3162 6k 19k	i- s n, to CC MF / nL 10 (25) (3	Fecal trep- ococci KF MF, col/ 00 mL 1673) 21k 57	Chlo phyl phyt plan ton acid ug/ (322) 13.0 5.2	l a so o- m k- si l, dia m, pei L <.00 11) (70	spnd. edi- ent, eve metr rccent 53mm J331) 98	Sus pend sed mer conc trati mg/ (801)	led i- nt en- on /L 54)		

Remark codes used in this table:

< -- Less than E -- Estimated value

LOCATION.--Lat 46°23'55", long 96°39'08", in NE¹/₄ NE¹/₄ sec. 24, T. 134 N., R. 48 W., Wilkin County, Hydrologic Unit 09020104, 2 miles south of Kent on Wilkin County 20.

DRAINAGE AREA.--54 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through July 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tua		щIJ	Specif			Ammonia			Nitrite	
Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001		. ,	. ,	· /	. ,	· /	· /	· /	· /	· /		. ,	. ,
06 DEC	1230	4.4	2.0	10.3	7.5	955	10.0	6.3	0.76	< 0.050	0.060	0.620	< 0.010
10	1515	0.30	3.0	9.6	7.3	1,800	-2.9	0.0	0.93	< 0.050	0.070	0.090	< 0.010
JAN 2002 14	1530	0.17	6.0	11.7	7.5	2,160	1.0	-0.2	1.0	< 0.050	0.070	0.190	< 0.010
MAR 18	1310	2.1	9.0	10.4	7.5	647	-2.0	-0.3	1.9	0.290	0.310	1.60	0.060
APR 15	1340	12	2.0	10.7	7.6	661	23.0	14.0	1.1	< 0.050	< 0.050	0.410	0.020
MAY 13	1255	8.4	15	11.0	7.8	1,150	16.5	13.0	1.4	< 0.050	< 0.050	0.950	0.010
JUN 03 24	1135 1600	0.23	$0.0 \\ 0.0$	17.0 <20.0	8.4 8.8	1,680 831	20.0 33.5	17.5 33.5	1.3 0.98	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
JUL	1000	0.23	0.0	\20.0	0.0	0.51	55.5	55.5	0.70	<0.050	<0.050	<0.050	<0.010
08 22	1430 1115	5.3 2.1	40 6.0	6.0 8.6	7.7 7.6	776 981	29.5 21.5	26.5 22.5	1.6 1.6	$0.070 \\ 0.250$	$0.070 \\ 0.240$	$0.480 \\ 0.200$	0.030 0.090
SEP 09	1520	1.1	6.0	10.8	7.4	805	19.3	21.9	1.1	< 0.050	< 0.050	0.180	0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06 DEC	0.217	0.249	150k	60k	727	3.05	99	5
10	0.122	0.153				1.53	13	21
JAN 2002								
14	0.139	0.165				1.84	11	38
MAR	0.400	0.401				2.21	00	10
18 APR	0.423	0.491				3.21	98	13
АРК 15	0.122	0.215	E2k	E2k	50	8.31	86	9
MAY	0.122	0.215	LZK	L2K	50	0.51	00	
13	0.073	0.093	18k	28k	106	3.14	99	7
JUN								
03	0.225	0.278	<1k	22	65	4.17	92	5 5
24	0.306	0.356	380k	160k	720	2.95	95	5
JUL								
08	0.381	0.499	2,100	800	7,400	15.8	99	20
22	0.666	0.797	200k		364	10.8	100	33
SEP	0.5(0	0 (17	110	120	1 200	11.5	00	0
09	0.560	0.647	110	120	1,320	11.5	99	9

Remark codes used in this table:

< -- Less than E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
07	1030	0.10	0.0	16.7	7.8	1,580	16.0	10.0	0.79	< 0.050	0.050	< 0.050	< 0.010
NOV													
04	1120	0.78	5.0	14.0	7.6	1,440	4.8	0.8	0.92	< 0.050	< 0.050	< 0.050	< 0.010
MAR 2003	1105	5 1	01	10.0	7.0	654	10.5	()	2.0	0.420	0.420	1.10	0.000
24 APR	1125	5.1	21	10.2	7.2	654	13.5	6.1	2.0	0.430	0.430	1.10	0.090
14	1130	0.78	30	16.5	8.3	1,100	21.0	18.0		< 0.050	< 0.050	< 0.050	< 0.050
MAY	1100	0170	20	1010	0.0	1,100	2110	1010		101020	101020	101020	101020
19	1140	14	10	11.4	8.0	1,300	11.6	15.2	1.6	< 0.050	< 0.050	0.870	0.020
JUN													
02	1235	3.9	10	8.9	8.0	1,330	19.5	17.5	1.6	< 0.050	< 0.050	0.170	0.010
16 JUL	1140	3.9	5.0	7.8	8.0	1,380	29.5	22.7	1.6	< 0.050	< 0.050	< 0.050	< 0.010
09	1555	2.6	54	6.9	7.3	1,100	19.2	18.5	1.6	0.090	0.160	0.460	0.020
21	1530	1.2	6.0	14.8	8.2	1,140	23.8	23.3	1.5	< 0.050	< 0.050	0.170	0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07	0.123	0.181	20	24	20	0.640	99	9
NOV								
04	0.127	0.161	100k	2k	6k	0.960	87	30
MAR 2003 24	0.237	0.324				2 20	97	13
APR	0.257	0.524				3.20	97	15
14	0.119	0.150	<2	<2	6k	2.40	100	1
MAY	01117	01100	-	-	011	20	100	
19	0.076	0.100	60	52	176	48.0	97	6
JUN								
02	0.293	0.332	60k	81	147	2.96	99	8
16	0.435	0.480	140k	160	413	3.23	99	59
JUL	0.702	0.001	1 0001	1 0001	2 000	2.44	101	21
09	0.783	0.921	1,900k	1,800k	>2,000	3.66	101	31
21	0.594	0.640	220	120	194		99	12

Remark codes used in this table:

< -- Less than

LOCATION.--Lat 46°26'21", long 96°40'43" in NE¹/₄ NE¹/₄ sec. 11, T. 134 N., R. 48 W., Wilkin County, Hydrologic Unit 09020104, on upstream left bank of U.S. Highway 75 bridge.

DRAINAGE AREA.--54 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through September 2003.

GAGE.--Water stage recorder. Datum of gage is 935 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded daily discharge, 768 ft³/s, July 11, 2002; minimum recorded daily discharge (estimated), 0.53 ft³/s, Mar. 10, 2003.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												1.4
15												1.5
16												1.7
17												1.6
18												1.6
19												1.5
20												1.7
21												1.7
22												1.8
23												1.8
24												1.9
25												1.8
26												1.6
27												1.9
28												1.7
29												1.7
30												1.8
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002 DAILY MEAN VALUES

					DAI		ALULS					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	36	6.7	e2.9	e4.4	3.4	79	15	5.8	3.4	3.1	50
2	1.9	22	6.4	e2.8	e4.5	2.4	56	14	5.2	3.1	2.9	30
3	1.9	13	5.9	e3.4	e4.5	e4.0	30	12	4.8	3.2	3.0	19
4	2.0	21	6.4	e3.6	e4.6	e4.0	20	10	4.5	3.4	3.0	13
5	2.2	18	7.4	e3.7	e4.7	e4.0	16	9.6	4.2	3.4	2.9	9.8
6	2.1	14	7.9	e3.8	e5.8	e3.6	17	9.2	3.9	3.4	2.5	7.3
7	2.1	11	8.2	e4.0	e6.0	e3.3	35	9.1	3.6	5.5	2.5	5.6
8	2.4	9.8	7.0	e3.8	e5.7	e2.6	79	38	3.6	50	2.1	4.4
9	2.7	8.3	5.6	e4.0	e5.2	e2.3	68	105	3.7	36	2.3	3.3
10	8.0	7.2	4.8	e3.9	e5.1	1.3	64	119	4.0	282	2.3	3.2
11	12	6.1	6.2	e4.0	e7.8	0.55	70	91	3.9	768	$2.1 \\ 1.8 \\ 1.7 \\ 1.5 \\ 1.6$	3.1
12	8.3	5.3	8.2	e3.9	e12	e0.83	52	70	3.6	581		2.3
13	4.5	5.1	8.0	e4.0	e15	e0.75	46	52	3.9	457		2.7
14	4.1	4.9	7.7	e3.8	e18	e1.3	42	39	3.8	293		3.0
15	4.3	4.6	7.8	e3.7	e22	e0.83	35	29	3.6	147		3.9
16	4.2	4.3	9.7	e3.6	9.5	e1.3	29	22	3.4	73	1.4	4.3
17	4.8	4.4	9.6	e3.6	16	e1.1	26	17	3.4	42	1.6	4.1
18	4.9	4.3	9.7	e3.5	e32	e8.3	27	14	3.9	29	1.7	3.5
19	4.7	4.1	7.5	e3.7	e32	35	32	12	4.9	22	1.3	4.3
20	5.3	3.8	4.5	e3.8	e30	49	27	10	13	15	1.2	5.0
21	4.2	4.7	e3.9	4.4	e28	38	24	8.4	5.2	12	$ \begin{array}{r} 1.3 \\ 1.4 \\ 1.3 \\ 1.3 \\ 1.2 \end{array} $	2.8
22	4.3	4.5	e3.9	e3.8	e26	33	22	7.5	4.3	9.8		2.7
23	4.5	4.3	e3.4	e3.8	e22	34	18	6.5	6.4	8.1		2.5
24	5.2	4.5	e3.5	e3.7	e17	33	15	6.3	8.1	7.3		2.9
25	5.1	5.0	3.5	e3.8	e15	31	14	5.8	7.0	6.4		3.5
26 27 28 29 30 31	2.0 1.2 1.0 14 19 24	5.1 2.6 1.1 0.97 5.6	e3.3 e3.4 e3.3 e3.7 e3.6 e3.5	e4.0 e4.0 e4.0 e4.3 e4.3	4.5 e8.7 e8.7 	35 44 89 126 121 92	12 12 16 16 15	5.4 5.2 4.7 6.3 8.6 6.5	7.9 7.7 6.5 5.2 3.9	5.8 5.4 4.5 4.1 3.7 3.4	$1.2 \\ 1.0 \\ 1.1 \\ 111 \\ 275 \\ 111$	4.0 3.4 3.2 2.7 3.5
TOTAL	168.9	245.57	184.2	117.6	374.7	805.86	1,014	768.1	152.9	2,890.9	549.3	213.0
MEAN	5.45	8.19	5.94	3.79	13.4	26.0	33.8	24.8	5.10	93.3	17.7	7.10
MAX	24	36	9.7	4.4	32	126	79	119	13	768	275	50
MIN	1.0	0.97	3.3	2.8	4.4	0.55	12	4.7	3.4	3.1	1.0	2.3
AC-FT	335	487	365	233	743	1,600	2,010	1,520	303	5,730	1,090	422

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003 DAILY MEAN VALUES

					DAI	LI MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.3 5.4 4.4 6.6 8.2	6.5 6.4 5.8 4.8 4.6	2.7 1.5 2.8 0.93 1.7	e2.1 e1.9 e1.9 e1.8 e1.8	e0.92 e1.00 e1.0 e1.1 e1.2	e0.68 e0.65 e0.64 e0.58 e0.56	e4.6 e4.1 e3.9 e3.9 5.9	10 9.1 8.5 8.8 12	12 11 10 9.8 8.5	229 133 71 35 22	3.3 3.0 2.7 2.7 2.5	1.2 1.2 1.1 0.99 1.3
6 7 8 9 10	11 11 5.9 5.9 11	4.9 6.2 4.9 4.7 4.9	2.5 2.7 2.2 e2.5 e2.5	e1.8 e1.7 e1.7 e1.7 e1.6	e1.3 e1.4 e1.4 e1.4 e1.5	e0.53 e0.53 e0.53 e0.54 e0.53	6.1 5.4 5.2 5.6 6.1	18 25 24 33 64	10 8.3 9.2 13 13	15 10 9.1 13 128	2.5 2.3 2.3 2.4 2.4	1.2 1.4 1.8 2.2 2.2
11 12 13 14 15	12 14 14 10 10	4.0 5.0 3.9 4.1 3.1	e2.3 e2.4 e2.2 e2.3 e2.3	e1.5 e1.4 e1.3 e1.4 e1.3	e1.5 e1.5 e1.3 e1.4 e1.3	e0.56 e0.54 e0.61 e0.63 e0.65	6.0 6.0 6.5 7.2 7.6	57 57 42 48 52	11 9.0 11 9.2 7.5	224 220 164 90 30	2.2 1.9 1.8 1.7 1.9	2.5 1.9 1.8 2.0 2.7
16 17 18 19 20	11 12 14 15 13	2.8 3.6 5.0 4.7 4.6	e2.3 e2.3 e2.3 e2.3 e2.3	e1.2 e1.2 e1.2 e1.1 e1.1	e1.3 e1.2 e1.1 e1.1 e0.94	e3.3 e11 e14 e21 e26	16 166 241 234 241	38 33 30 34 63	8.4 30 72 19 12	15 7.9 6.3 6.7 7.7	2.0 1.9 1.8 1.6 1.6	4.6 4.4
21 22 23 24 25	$11 \\ 11 \\ 10 \\ 9.4 \\ 11$	4.8 4.7 4.2 3.0 3.0	e2.3 e2.3 e2.3 2.1 2.1	e1.0 e0.97 e0.98 e0.92 e0.94	e0.83 e0.80 e0.80 e0.77 e0.76	e24 e20 e17 e14 e12	142 94 57 36 26	45 44 37 29 28	6.4 13 21 55 486	7.5 6.8 7.5 6.8 6.0	1.3 1.2 1.4 1.3 1.4	
26 27 28 29 30 31	9.2 8.2 7.9 8.4 8.2 6.4	3.4 3.6 3.0 3.8 3.0	e2.1 e2.3 e2.2 e2.1 e1.9 e2.0	e0.94 e0.98 e0.97 e0.93 e0.94 e0.95	e0.74 e0.74 e0.73 	e9.6 e8.0 e6.8 e6.0 e5.5 e4.3	20 16 14 12 11	23 19 17 15 14 13	630 479 622 561 361	5.0 4.6 4.7 4.3 3.7 3.4	1.3 1.3 1.3 1.1 0.88 1.1	
TOTAL MEAN MAX MIN AC-FT	299.4 9.66 15 4.3 594	131.0 4.37 6.5 2.8 260	68.73 2.22 2.8 0.93 136	41.22 1.33 2.1 0.92 82	31.03 1.11 1.5 0.73 62	211.26 6.81 26 0.53 419	1,410.1 47.0 241 3.9 2,800	950.4 30.7 64 8.5 1,890	3,528.3 118 630 6.4 7,000	1,497.0 48.3 229 3.4 2,970	58.08 1.87 3.3 0.88 115	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 to September 2003.

PERIOD OF DAILY RECORD .--WATER TEMPERATURE: April 2002 to September 2003. SPECIFIC CONDUCTANCE: April 2002 to September 2003. PH: April 2002 to September 2003. DISSOLVED OXYGEN: April 2002 to September 2003. TURBIDITY: April 2002 to September 2003.

INSTRUMENTATION .-- Water-quality monitor.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum recorded, 29.4°C, June 30, 2002; minimum recorded, 0.1°C, on many days during winter months. SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 microsiemens, December 4, 2002; minimum recorded, 204 microsiemens, August 29, 2002. PH: Maximum recorded, 8.6. units, May 2, 2002, and August 5, 2002; minimum recorded, 6.8 units, September 8, 2003. DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L, May 25, 2002; minimum recorded, 2.3 mg/L, July 2, 2002 TURBIDITY: Maximum recorded, 1,300 NTU's, June 24-25, 2003; minimum recorded, 7.0 NTU's, September 13, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

		1	ur-	p	H, Sp	ecif.			Ammon +	ia		Nitrite +	
Date	Time	Instan- bi taneous w dis- un charge, fi cfs N	dity, ater, D fltrd sol eld, oxy TU m	wa is- uni ved fie gen, s g/L ur	iter, con fltrd tai eld, wai td uS nits 25 d	duc- nce, 7 t unf /cm degC	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	water, fltrd, mg/L as N	a Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 13 25	0900 0905					66 78	11.0 9.5	14.9 11.2	0.41 0.38	<0.050 <0.050	0.070 <0.050	<0.050 <0.050	<0.010 <0.010
		Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Feca coli- form M-F0 0.7u M col/ 100 m (3162	- stra n, toca C K MF M / ca nL 100	ep- ph occi ph F pla F, ta bl/ aci mL u	yll a yto- 1 ank- 2 on, di d m, p g/L <.(sedi- pe nent, s sieve r ametr co ercent tr)63mm r	Sus- ended edi- nent ncen- ation ng/L 0154)		
		SEP 2001 13	0.052	0.067	630	530	38	35 0.	680	99	20		

270

116

1.06

18

96

25... 0.046 0.073 330 Remark codes used in this table:

< -- Less than

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001 06 DEC	1410	13	10	11.1	7.7	1,000	10.5	6.1	0.73	< 0.050	<0.050	0.470	<0.010
10	1345	4.0	5.0	11.2	7.5	1,030	-2.3	0.0	1.6	< 0.050	< 0.050	0.150	< 0.010
JAN 2002 14 FEB	1425	3.9	8.0	10.6	7.6	918	2.0	-0.3	0.36	0.070	0.080	0.300	<0.010
11	1300	3.5	28	10.1	7.6	720	11.8	-0.2	0.42	0.080	0.220	0.370	< 0.010
MAR 18 APR	1305	0.95	20	10.6	7.3	543	-3.5	-0.3	1.1	0.200	0.200	1.20	0.050
15	1430	33	41	8.9	7.6	700	22.8	13.3	1.6	0.070	0.070	0.520	0.020
MAY 13 JUN	1545	46	44	12.3	8.0	1,040	18.5	12.4	1.4	< 0.050	< 0.050	1.40	0.030
03 24	1230 1330	4.8 8.2	20 52	8.4 5.0	8.2 7.9	917 723	20.0 35.0	16.5 25.6	0.89 0.96	<0.050 0.140	<0.050 0.150	<0.050 0.130	<0.010 0.020
JUL 08 22	1710 1305	58 9.2	280 35	5.4 5.4	7.5 7.7	432 948	29.5 21.5	25.5 23.0	2.0 1.5	$\begin{array}{c} 0.080\\ 0.140\end{array}$	$0.090 \\ 0.190$	$0.900 \\ 0.260$	$\begin{array}{c} 0.060\\ 0.060\end{array}$
AUG 05 19	1250 1220	2.7 1.1	21 9.0	6.7 7.7	8.0 7.9	788 697	28.0 24.5	21.0 17.0	0.70 0.39	0.070 <0.050	0.070 <0.050	$\begin{array}{c} 0.170 \\ 0.060 \end{array}$	0.010 <0.010
SEP 09 23	1345 1335	3.2 2.4	20 18	5.3 8.6	7.7 8.0	746 722	21.4 10.6	23.2 11.9	0.75 0.45	<0.050 <0.050	<0.050 <0.050	0.210 0.110	0.020 <0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06 DEC	0.148	0.191	92k	660	94k	3.75	33	12
10	0.021	0.042				1.03	62	54
JAN 2002 14	0.033	0.055				0.870	88	23
FEB							00	25
11 MAR	0.040	0.074				1.11		
18	0.212	0.286				1.17	99	29
APR 15	0.088	0.187	82k	32k	183	9.25	99	45
MAY	0.088	0.187	02K	32K	165	9.23	99	45
13	0.066	0.127	50k	43k	144	5.89	99	33
JUN 03	0.034	0.085	140k	88	168	6.37	100	20
24	0.087	0.168	330k	260k	640	5.21	100	39
JUL 08	0.249	0.698	3,200	4,000	8,900	12.7	94	43
22	0.253	0.399	400k		166	5.67	99	76
AUG 05	0.084	0.195	100k	9k	360	3.16	100	47
19	0.052	0.100	27k	33	368	1.42	99	39
SEP 09	0.233	0.303	100	92	700	3.88	99	36
23	0.040	0.084	160	440	184	2.10	100	19

Remark codes used in this table:

< -- Less than

Value qualifier codes used in this table: k -- Counts outside acceptable range

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	R		OVEMBE			DECEMBE			JANUARY	<u>r</u>
1												
2 3												
4												
5												
6												
7 8												
9												
10												
11 12												
13												
14 15												
16												
17												
18 19												
20												
21												
22												
23 24												
25												
26												
27 28												
29												
30 31												
51												
MONTH												
MONTH			 V								 MAV	
		FEBRUAR	Y		MARCH			APRIL			MAY	
1										11.7	MAY 9.2	10.1
1 2 3	 	FEBRUAR` 	Y 	 	MARCH 	 		APRIL 		11.7 10.5 13.2	MAY 9.2 6.2 8.0	10.1 8.5 10.5
1 2		FEBRUAR` 	Y		MARCH 			APRIL		11.7 10.5 13.2 13.6	MAY 9.2 6.2 8.0 10.6	10.1 8.5 10.5 12.4
1 2 3 4 5	 	FEBRUAR' 	Y 	 	MARCH 		 	APRIL 	 	11.7 10.5 13.2 13.6 13.1	MAY 9.2 6.2 8.0 10.6 9.8	10.1 8.5 10.5 12.4 11.1
1 2 3 4 5 6 7	 	FEBRUAR` 	Y 	 	MARCH 	 	 	APRIL 	 	11.7 10.5 13.2 13.6 13.1 11.1 10.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3	10.1 8.5 10.5 12.4 11.1 10.0 8.5
1 2 3 4 5 6 7 8		FEBRUAR' 	Y 	 	MARCH	 		APRIL 	 	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2
1 2 3 4 5 6 7	 	FEBRUAR 	Y 	 	MARCH		 	APRIL 	 	11.7 10.5 13.2 13.6 13.1 11.1 10.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3	10.1 8.5 10.5 12.4 11.1 10.0 8.5
1 2 3 4 5 6 7 8 9	 	FEBRUAR' 	Y 	 	MARCH			APRIL 		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4	$10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ $
1 2 3 4 5 6 7 8 9 10 11 12		FEBRUAR' 	Y		MARCH			APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8
1 2 3 4 5 6 7 8 9 10 11	 	FEBRUAR 	Y	 	MARCH	 	 	APRIL 	 	11.7 10.5 13.2 13.6 13.1 10.4 7.4 5.8 10.4 10.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4	$10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\ 13.8 \\ 13.8 \\ 10.1 \\ $
1 2 3 4 5 6 7 8 9 10 11 12 13		FEBRUAR" -	Y		MARCH			APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0	$10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\end{array} $		FEBRUAR'	Y		MARCH		 18.5	APRIL 14.6	 16.3	$ \begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ \end{array} $	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8	$10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\ 13.8 \\ 15.6 \\ 13.6 \\ 13.6 \\ 13.6 \\ 10.5 \\ $
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\end{array} $		FEBRUAR' 	Y		MARCH			APRIL		$ \begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ \end{array} $	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9	$10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\ 13.8 \\ 15.6 \\ 15.6 \\ 10.1 \\ $
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $		FEBRUAR'	Y		MARCH		 18.5 18.0 15.8 8.9	APRIL 14.6 14.3 8.9 5.4	 16.3 15.8 12.6 6.8	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2	$\begin{array}{c} 10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\ 13.8 \\ 15.6 \\ 13.6 \\ 12.3 \\ 12.1 \\ 12.8 \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $		FEBRUAR 	Y		MARCH		 18.5 18.0 15.8 8.9 9.2	APRIL 14.6 14.3 8.9 5.4 5.3	 16.3 15.8 12.6 6.8 7.0	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4	$\begin{array}{c} 10.1 \\ 8.5 \\ 10.5 \\ 12.4 \\ 11.1 \\ 10.0 \\ 8.5 \\ 6.2 \\ 5.1 \\ 6.7 \\ 9.8 \\ 9.8 \\ 12.2 \\ 13.8 \\ 15.6 \\ 13.6 \\ 12.3 \\ 12.1 \\ 12.8 \\ 14.1 \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $		FEBRUAR 	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2	APRIL 14.6 14.3 8.9 5.4 5.3 6.6	 16.3 15.8 12.6 6.8 7.0 7.7	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $		FEBRUAR'	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.6\\ 17.0\\ 16.5\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $		FEBRUAR'	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1 13.1	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.5\\ 13.2\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ 11.0\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $		FEBRUAR'	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1 13.1 8.3	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3 4.4	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.7\\ 16.5\\ 13.2\\ 15.7\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.5\\ 13.8\\ 14.1\\ 15.5\\ 13.8\\ 11.0\\ 13.9\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $		FEBRUAR 	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1 13.1	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3 4.4 3.9 5.2	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.5\\ 13.2\\ 15.7\\ 17.8\\ 20.5\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ 11.0\\ 13.9\\ 16.3\\ 17.9\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $		FEBRUAR 	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3 4.4 3.9 5.2 4.1	 -	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.7\\ 16.5\\ 13.2\\ 15.7\\ 17.8\\ 20.5\\ 23.0\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 18.8	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.8\\ 15.6\\ 13.8\\ 15.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ 11.0\\ 13.9\\ 16.3\\ 17.9\\ 20.7\\ \end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $		FEBRUAR 	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1 10.0 12.2	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3 4.4 3.9 5.2	 -	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.5\\ 13.2\\ 15.7\\ 17.8\\ 20.5\\ 23.0\\ 23.4\\ 23.1\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 15.2 15.8 18.8 20.0 20.3	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ 11.0\\ 13.9\\ 16.3\\ 17.9\\ 20.7\\ 21.7\\ 21.9\end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\end{array} $		FEBRUAR'	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1 10.0	APRIL 14.6 14.3 8.9 5.4 5.3 6.6 5.5 6.4 8.3 4.4 3.9 5.2 4.1 5.2	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8 5.1 7.3	$\begin{array}{c} 11.7\\ 10.5\\ 13.2\\ 13.6\\ 13.1\\ 11.1\\ 10.4\\ 7.4\\ 5.8\\ 10.4\\ 10.4\\ 12.2\\ 15.0\\ 16.0\\ 17.5\\ 16.4\\ 13.4\\ 14.3\\ 15.0\\ 16.6\\ 17.0\\ 16.5\\ 13.2\\ 15.7\\ 17.8\\ 20.5\\ 23.0\\ 23.4\\ \end{array}$	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 18.8 20.0	$\begin{array}{c} 10.1\\ 8.5\\ 10.5\\ 12.4\\ 11.1\\ 10.0\\ 8.5\\ 6.2\\ 5.1\\ 6.7\\ 9.8\\ 9.8\\ 12.2\\ 13.8\\ 15.6\\ 13.6\\ 12.3\\ 12.1\\ 12.8\\ 14.1\\ 15.4\\ 15.5\\ 13.8\\ 11.0\\ 13.9\\ 16.3\\ 17.9\\ 20.7\\ 21.7\\ \end{array}$

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		SI	EPTEMBE	ER
1	22.6	20.6	21.6	28.9	25.8	27.4	26.0	23.2	24.3	23.4	21.5	22.5
2	21.0	17.3	19.3	27.5	25.2	26.2	23.2	20.3	21.8	23.2	21.7	22.2
3	17.3	13.2	16.4	26.9	24.0	25.5	22.0	20.6	21.1	21.9	19.0	20.6
4	18.9	14.8	16.7	25.7	23.6	24.2	22.7	20.0	21.3	21.8	20.1	21.0
5	21.0	16.6	18.6	26.4	22.8	24.5	23.0	20.2	21.7	22.8	21.1	21.9
6	22.0	18.5	20.1	28.4	25.4	26.8	22.4	20.4	21.1	24.3	22.1	23.1
7	21.7	19.6	20.6	28.0	23.9	26.2	23.2	20.1	21.5	25.3	23.7	24.5
8	21.0	18.3	19.8	26.0	22.6	24.1	25.3	22.6	23.8	25.5	24.0	24.8
9	21.6	19.9	20.7	26.8	24.1	25.6	24.8	23.5	24.1	25.0	21.5	23.2
10	22.5	21.6	22.0	26.5	19.7	22.3	23.9	21.6	22.7	21.5	19.0	20.0
11	22.2	19.8	21.2	21.6	18.7	19.9	24.3	20.9	22.6	20.3	18.3	19.4
12	21.9	20.1	20.6	24.1	20.4	21.9	23.6	21.8	22.4	20.4	18.5	19.5
13	20.2	18.2	18.9	25.6	22.5	23.9	21.8	19.6	20.9	20.3	19.2	19.8
14	19.9	16.8	18.4	26.5	23.6	25.0	21.2	19.9	20.4	19.9	17.9	19.0
15	21.4	18.8	20.1	27.0	24.5	25.8	21.2	19.9	20.6	17.9	16.3	17.0
16	21.8	19.7	20.8	28.3	25.1	26.5	20.8	18.9	19.5	17.6	15.5	16.5
17	22.7	20.4	21.4	28.1	26.1	27.2	19.3	17.7	18.7	19.1	16.9	17.8
18	22.5	20.7	21.5	27.4	24.8	26.3	18.7	16.4	17.8	20.5	18.2	19.2
19	23.7	21.4	22.2	28.1	25.5	26.9	19.7	16.5	18.2	19.8	18.1	18.7
20	22.6	20.6	21.5	28.2	26.5	27.4	19.5	18.1	18.6	18.1	16.0	16.6
21	21.5	20.7	20.9	28.2	26.1	27.3	19.5	18.8	19.1	16.0	14.7	15.2
22	23.3	20.3	21.5	26.1	21.9	23.7	20.8	19.1	19.9	14.7	12.6	13.5
23	25.6	22.8	24.1	21.9	19.8	20.3	22.2	19.7	21.0	12.6	11.5	12.2
24	27.4	24.4	25.8	21.6	19.2	20.3	23.3	20.6	22.0	11.5	10.5	11.0
25	28.0	26.2	27.2	24.5	21.1	22.6	24.1	21.5	22.8	11.2	10.5	10.8
26 27 28 29 30 31	27.6 27.9 28.4 29.1 29.4	25.6 25.5 25.8 26.0 27.1	26.7 26.7 27.1 27.5 28.2	26.7 26.8 26.3 24.8 26.5 26.5	23.5 24.8 23.2 21.6 23.7 23.8	25.0 25.9 24.8 23.2 25.0 25.2	25.0 24.6 24.4 23.4 21.5 23.1	22.5 22.7 23.0 20.7 20.6 20.4	23.7 23.7 23.6 22.1 21.0 21.5	10.9 11.3 11.1 11.7 13.4	9.9 9.4 10.4 10.8 11.5	10.4 10.4 10.8 11.2 12.4
MONTH	29.4	13.2	21.9	28.9	18.7	24.7	26.0	16.4	21.4	25.5	9.4	17.5
YEAR	29.4	3.9	18.8									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBE			ECEMBE			JANUARY	
1												
2												
3 4												
5												
6												
7												
8 9												
10												
11												
11												
13												
14 15												
16 17												
18												
19 20												
21 22												
23												
24												
25												
26 27												
27												
29												
30 31												
MONTH												
		FEDDUAD										
		FEBRUAR	Y		MARCH			APRIL			MAY	
1					MARCH			APRIL		971	MAY 953	961
					MARCH			APRIL			MAY	
1 2 3 4	 	 	 		MARCH 	 	 	APRIL 	 	971 990 1,020 1,000	MAY 953 971 970 964	961 980 992 985
1 2 3 4 5		 			MARCH 	 		APRIL 	 	971 990 1,020 1,000 982	MAY 953 971 970 964 959	961 980 992 985 973
1 2 3 4 5 6	 	 	 	 	MARCH	 	 	APRIL 	 	971 990 1,020 1,000 982 979	MAY 953 971 970 964 959 957	961 980 992 985 973 968
1 2 3 4 5 6 7	 			 	MARCH 	 		APRIL 	 	971 990 1,020 1,000 982 979 987	MAY 953 971 970 964 959 957 930	961 980 992 985 973 968 959
1 2 3 4 5 6 7 8 9	 	 	 	 	MARCH 	 		APRIL 		971 990 1,020 1,000 982 979 987 1,000 946	MAY 953 971 970 964 959 957 930 818 841	961 980 992 985 973 968 959 934 902
1 2 3 4 5 6 7 8	 	 	 	 	MARCH	 	 	APRIL	 	971 990 1,020 1,000 982 979 987 1,000	MAY 953 971 970 964 959 957 930 818	961 980 992 985 973 968 959 934
1 2 3 4 5 6 7 8 9 10 11		 	 	 	MARCH			APRIL 	 	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040	MAY 953 971 970 964 959 957 930 818 841 946 945	961 980 992 985 973 968 959 934 902 1,020 1,000
1 2 3 4 5 6 7 8 9 10 11 12		 		 	MARCH	 		APRIL 		971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020	MAY 953 971 970 964 959 957 930 818 841 946 945 954	961 980 992 985 973 968 959 934 902 1,020 1,000 984
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 14 \\ 14 \\ 14 \\ 12 \\ 13 \\ 14 \\ 14 \\ 12 \\ 13 \\ 14 \\ 12 \\ 11 \\ 12 \\ 13 \\ 14 \\ 12 \\ 13 \\ 14 \\ 12 \\ 13 \\ 14 \\ 12 \\ 13 \\ 14 \\ 12 \\ 13 \\ 14 \\ 12 \\ 11 \\ 11 \\ 11 \\ 12 \\ 13 \\ 14 \\ 12 \\ 11 \\ 11 \\ 12 \\ 13 \\ 14 \\ 12 \\ 11 \\ 12 \\ 13 \\ 11 \\ 12 \\ 13 \\ 11 \\ 12 \\ 13 \\ 11 \\ 12 \\ 13 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 13 \\ 14 \\ 12 \\ 12 \\ 13 \\ 12 \\ 12 \\ 14 \\ 12 \\ 12 \\ 11 \\ 12 \\ 12 \\ 13 \\ 14 \\ 12 \\ 11 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12$		 		 	MARCH			APRIL		971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050	961 980 992 985 973 968 959 934 902 1,020 1,020 1,000 984 1,040 1,070
1 2 3 4 5 6 7 8 9 10 11 12 13					MARCH			APRIL		971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020	961 980 992 985 973 968 959 934 902 1,020 1,000 984 1,040
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16					MARCH		 748	APRIL	 725	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,050 1,080 1,080 1,080	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050 1,080 1,070	961 980 992 985 973 968 959 934 902 1,020 1,020 1,000 984 1,040 1,070 1,080 1,070
$ \begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ \end{array} $					MARCH		 748 783	APRIL	 725 767	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,070 1,080
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $					MARCH		 748	APRIL	 725 767 806 836	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,040 1,020 1,080 1,090 1,080 1,090 1,090	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,070 1,060	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,070 1,080 1,080 1,080
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $					MARCH		 748 783 839	APRIL 700 748 776	 725 767 806	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,090	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,070	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,040 1,070 1,080 1,070 1,080
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $					MARCH		 748 783 839 854 861 880	APRIL	 725 767 806 836 857 871	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,050 1,040 1,050 1,080 1,090 1,090 1,090 1,090	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,070 1,060 1,060	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,040 1,040 1,070 1,080 1,080 1,080 1,080 1,080 1,080
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $					MARCH		 748 783 839 854 861 880 894	APRIL	 725 767 806 836 857 871 887	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,070	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,060 1,060 1,070	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $					MARCH		 748 783 839 854 861 880 894 914 925	APRIL	 725 767 806 836 857 871 887 904 914	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,080 1,090 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,090 1,080 1,090 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,080 1,090 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,090 1,090 1,080 1,080 1,090 1,090 1,080 1,080 1,090 1,08	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,050 1,070 1,070 1,060 1,060 1,060 1,020	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,080 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $					MARCH		 748 783 839 854 861 880 894 914	APRIL	 725 767 806 836 857 871 887 904	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,090 1,090 1,090 1,090 1,070 1,080	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050 1,080 1,070 1,070 1,060 1,060 1,060	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\end{array} $					MARCH		 748 783 839 854 861 880 894 914 925 934 953	APRIL	 725 767 806 836 857 871 887 904 914 925 939	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,020 1,00	MAY 953 971 964 959 957 930 818 841 945 954 1,020 1,050 1,050 1,070 1,070 1,060 1,060 1,060 1,060 1,020 1,010	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,080 1,070 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $					MARCH		 748 783 839 854 861 880 894 914 925 934 953 947	APRIL	 725 767 806 836 857 871 887 904 914 925 939 941	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,060 1,020 1,020 1,020	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050 1,050 1,070 1,070 1,070 1,060 1,070 1,060 1,070 1,060 1,070 1,060 1,020 1,010 981	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,070 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070 1,070 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\end{array} $					MARCH		 748 748 783 839 854 861 880 894 914 925 934 914 925 934 953 947 976 996	APRIL	 725 767 806 836 857 871 887 904 914 925 939	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,020 1,00	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,060 1,060 1,060 1,060 1,070 1,060 1,010 1,010 981 969 940	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,080 1,070 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $					MARCH		 748 783 839 854 861 880 894 914 925 934 914 925 934 914 925 934 953 947 976 996 1,000	APRIL	 725 767 806 836 857 871 887 904 914 925 939 941 960 955 967	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,020 1,020 1,020 1,020 1,020 1,010 976 940	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050 1,080 1,070 1,070 1,070 1,060 1,060 1,060 1,060 1,010 981 969 940 855	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,070 1,080 1,070 1,080 1,070 1,070 1,080 1,070 1,080 1,070
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\\31\end{array} $					MARCH		 748 748 748 748 748 748 748 748 748 748	APRIL	 725 767 806 836 857 871 887 904 914 925 939 941 960 955 967 	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,020 1,010 976 940 963	MAY 953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,060 1,060 1,060 1,060 1,060 1,010 981 969 940 855 882	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,040 1,080 1,080 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070 1,010 994 990 994 990 962 880 931
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $					MARCH		 748 783 839 854 861 880 894 914 925 934 914 925 934 914 925 934 953 947 976 996 1,000	APRIL	 725 767 806 836 857 871 887 904 914 925 939 941 960 955 967	971 990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,080 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,020 1,020 1,020 1,020 1,020 1,010 976 940	MAY 953 971 970 964 959 957 930 818 841 945 954 1,020 1,050 1,080 1,070 1,070 1,070 1,060 1,060 1,060 1,060 1,010 981 969 940 855	961 980 992 985 973 968 959 934 902 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,080 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,070 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,080 1,070 1,080 1,070 1,080 1,070 1,070 1,080 1,070 1,080 1,070

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		SI	EPTEMBE	R
1	903	872	887	865	830	850	924	896	915	408	327	367
2	917	819	871	843	809	829	896	856	869	480	408	445
3	926	884	904	810	798	802	869	831	841	534	480	502
4	896	872	882	800	772	783	852	819	834	587	534	557
5	921	873	897	787	756	770	838	809	815	639	587	608
6	922	885	905	766	746	755	813	787	795	696	639	665
7	885	846	863	777	527	728	815	797	806	723	696	709
8	875	816	845	626	401	488	817	765	797	738	723	731
9	853	800	829	584	540	570	778	763	775	784	738	745
10	817	786	804	588	232	409	766	753	761	748	727	740
11	808	769	788	333	285	299	753	729	744	772	695	721
12	818	770	798	423	313	374	746	718	725	717	694	705
13	807	775	790	474	423	451	727	714	720	760	711	722
14	775	728	752	512	474	490	730	720	726	729	713	718
15	744	711	727	575	512	541	738	715	720	714	695	707
16	790	729	758	666	575	622	752	709	717	695	683	690
17	823	742	767	761	666	712	721	691	700	731	667	681
18	745	661	711	851	761	801	734	653	694	685	670	679
19	751	661	687	916	851	893	692	684	688	691	673	686
20	730	573	653	954	916	941	731	684	695	673	644	654
21	706	552	632	977	953	966	690	680	685	670	641	647
22	799	706	749	988	965	976	697	680	691	708	659	691
23	804	705	753	988	969	976	696	684	690	721	669	690
24	864	700	751	990	965	973	720	684	693	670	660	665
25	892	848	871	979	970	973	696	690	694	683	664	671
26 27 28 29 30 31	895 924 924 883 864	824 895 853 847 852	854 907 876 862 857	978 950 941 936 929 931	948 925 897 891 900 900	966 933 919 910 918 916	695 696 714 685 233 327	690 689 683 204 208 233	692 692 691 529 219 273	692 684 677 683 698	681 669 666 665 676	685 678 670 674 681
MONTH YEAR	926 1,090	552 204	808 797	990	232	759	924	204	706	784	327	659

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Dill	ОСТС		NOVE		DECE		JANU		FEBRI		MAI	
1												
2												
3 4												
5												
6												
7 8												
9												
10												
11 12												
13												
14 15												
16												
17												
18 19												
20												
21												
22 23												
24												
25												
26 27												
28												
29 30												
31												
MONTH												
	API		MA	ΑY	JUI	NE	JU	LY	AUG	UST	SEPTE	MBER
1		RIL 	8.5	8.4	8.2	8.1	8.0	7.9	8.3	8.2	7.7	7.6
2		RIL	8.5 8.6	8.4 8.4	8.2 8.2	8.1 8.1	8.0 8.0	7.9 7.9	8.3 8.3	8.2 8.2	7.7 7.8	7.6 7.7
2 3 4	 	RIL 	8.5 8.6 8.5 8.5	8.4 8.4 8.4 8.3	8.2 8.2 8.3 8.3	8.1 8.1 8.2 8.2	8.0 8.0 7.9 7.9	7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4	8.2 8.2 8.3 8.3	7.7 7.8 7.9 7.9	7.6 7.7 7.8 7.9
2 3 4 5		RIL 	8.5 8.6 8.5 8.5 8.5	8.4 8.4 8.3 8.3	8.2 8.2 8.3 8.3 8.3	8.1 8.1 8.2 8.2 8.2	8.0 8.0 7.9 7.9 8.0	7.9 7.9 7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4 8.6	8.2 8.2 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0	7.6 7.7 7.8 7.9 7.9
2 3 4 5 6	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.4	8.4 8.4 8.3 8.3 8.3	8.2 8.2 8.3 8.3 8.3 8.3	8.1 8.1 8.2 8.2 8.2 8.1	8.0 8.0 7.9 7.9 8.0 8.0	7.9 7.9 7.9 7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4 8.6 8.5	8.2 8.2 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0	7.6 7.7 7.8 7.9 7.9 7.9
2 3 4 5 6 7 8	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.1	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2	8.1 8.2 8.2 8.2 8.2 8.1 8.1 8.0	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5	8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.0 8.1	7.6 7.7 7.8 7.9 7.9 7.9 7.9 7.9 8.0
2 3 4 5 6 7 8 9	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.1 8.0	8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.9 7.7	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4	8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.0 8.1 8.1	7.6 7.7 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0
2 3 4 5 6 7 8 9 10	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.1 8.0 8.0	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.7 7.8	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4	8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1
2 3 4 5 6 7 8 9 10 11 12	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0	8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.7 7.8 7.5 7.4	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4	8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1 8.0 8.1
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2 3 4 5 6 7 8 9 10 11 12	 	RIL 	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0	8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.7 7.8 7.5 7.4	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4	8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1 8.0 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 8.2	RIL 8.1	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3 8.3	8.1 8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.9 7.9 7.7 7.8 7.5 7.4 7.5 7.5 7.6 7.7	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ \end{array} $	 8.2 8.3	RIL 8.1 8.2	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3 8.3 8.3	8.1 8.1 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.7\end{array}$	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.6	$\begin{array}{c} 8.3\\ 8.3\\ 8.4\\ 8.4\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.4$	8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2
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$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4	RIL 8.1 8.2 8.2 8.3 8.4	$\begin{array}{c} 8.5\\ 8.6\\ 8.5\\ 8.5\\ 8.5\\ 8.5\\ 8.4\\ 8.4\\ 8.4\\ 8.4\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\end{array}$	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.1 8.0 8.1	8.1 8.1 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 7.8	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\end{array}$	$\begin{array}{c} 7.9 \\ 7.9 \\ 7.9 \\ 7.9 \\ 7.9 \\ 7.9 \\ 7.8 \\ 7.6 \\ 7.7 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.5 \\ 7.5 \\ 7.5 \\ 7.6 \\ 7.7 \\ 7.8 \end{array}$	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4	8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 7.6\\ 7.7\\ 7.8\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2 \end{array}$
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4	RIL 8.1 8.2 8.2 8.3 8.4 8.4	8.5 8.6 8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.2 8.1 8.0 8.1 7.8	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 8.0 7.8 7.8 7.7	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\end{array}$	$\begin{array}{c} 7.9 \\ 7.9 \\ 7.9 \\ 7.9 \\ 7.9 \\ 7.8 \\ 7.6 \\ 7.7 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.4 \\ 7.5 \\ 7.5 \\ 7.6 \\ 7.7 \\ 7.7 \\ 7.8 \\ 7.8 \\ 7.8 \end{array}$	8.3 8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.5	8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4	RIL 8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.3 8.3	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 8.0 8.1 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.0\\ 7.8\\ 7.7\\ 7.7\\ 7.9\end{array}$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ \end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ \end{array}$		8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 7.6\\ 7.7\\ 7.8\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.1\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.2\end{array}$
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	RIL 8.1 8.2 8.2 8.3 8.4 8.4 8.3 8.3 8.3	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.2 8.3 8.1 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.0\\ 7.8\\ 7.7\\ 7.7\\ 7.9\\ 8.0\\ \end{array}$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ \end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ \end{array}$		8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 7.6\\ 7.7\\ 7.8\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.2\\ 8.2\end{array}$
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	RIL 8.1 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.4	8.5 8.6 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3	$\begin{array}{c} 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.1 8.0 8.1 7.8 7.9 8.0 8.1 8.1 8.1	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.0\\ 7.8\\ 7.7\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ \end{array}$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.2 \end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\end{array}$		 8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.3 8.2 8.3 8.3 8.3 8.2 8.4 8.3 8.4 8.4	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.2 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5	RIL 8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.5 8.6 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.1 8.0 8.1 8.1 8.1 8.1 8.1	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.0\\ 7.8\\ 7.7\\ 7.7\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.7\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\end{array}$		8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	$\begin{array}{c} 7.6\\ 7.7\\ 7.8\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.4	RIL 8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.2 8.2 8.2 8.3 8.2 8.2	$\begin{array}{c} 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.0\\ 7.8\\ 7.7\\ 7.7\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0\\ 8.0$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\end{array}$		8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.4	$\begin{array}{c} 7.6\\ 7.7\\ 7.8\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	RIL -	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3	$\begin{array}{c} 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\end{array}$		8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ \end{array}$	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	RIL 8.1 8.2 8.3 8.4 <tr tr=""></tr>	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.1 8.1 8.2 8.2 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	8.2 8.2 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.2 8.1 8.0 8.1 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.1 8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.9 8.0 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$		8.2 8.3 8.2 7.5 7.4 7.5	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.4 8.4 8.4 8.5	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	RIL -	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3	$\begin{array}{c} 8.4\\ 8.4\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.3$	8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	$\begin{array}{c} 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.1\\ 8.0\\ 7.9\\ 7.8\\ 7.9\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1$	$\begin{array}{c} 8.0\\ 8.0\\ 7.9\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 7.9\\ 7.7\\ 7.8\\ 7.5\\ 7.6\\ 7.5\\ 7.6\\ 7.7\\ 7.7\\ 7.8\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\end{array}$	$\begin{array}{c} 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.9\\ 7.8\\ 7.6\\ 7.7\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 7.7\\ 7.8\\ 7.8\\ 7.9\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\end{array}$		8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	$\begin{array}{c} 7.7\\ 7.8\\ 7.9\\ 7.9\\ 8.0\\ 8.0\\ 8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2\\ 8.2$	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2.11		OCTOBER			OVEMBE			ECEMBE			JANUARY	
1												
2												
3 4												
5												
6												
7												
8 9												
10												
11												
12												
13 14												
15												
16												
17 18												
19												
20												
21												
22 23												
24												
25												
26												
27 28												
29												
30 31												
MONTH												
		FEBRUARY	Ύ		MARCH			APRIL			MAY	
$\frac{1}{2}$												
3												
4 5												
6 7												
8												
9 10												
10												
11												
13												
14 15										11.5 11.6	9.1 8.6	10.1 9.9
16							9.5	8.3	9.0	13.1	8.8	10.7
17							11.0	8.6	9.6	13.5	9.9	11.5
18 19							11.5 14.3	9.9 11.5	10.3 13.2	14.8 14.6	10.3 10.2	12.2 12.1
20							15.2	13.8	14.5	14.8	9.7	11.9
21							14.8	13.0	13.7	14.8	8.9	11.6
22							15.6	14.2	14.7	13.7	8.5	10.9
23 24										13.8 16.5	8.2 11.3	10.7 13.7
25										15.0	10.7	13.0
26										13.6	9.3	11.6
27 28										14.0	9.3	11.6
29										11.8 10.7	8.3 7.6	10.2 9.0
30										10.9	6.6	8.5
31										10.9	7.0	8.7
MONTH							15.6	8.3	12.1	16.5	6.6	11.0

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1	10.4	7.3	8.7	4.2	3.3	3.7	6.6	5.3	5.9	5.3	4.9	5.2
2	8.9	7.6	8.3	3.6	2.3	3.0	7.3	5.9	6.5	6.1	5.3	5.6
3	10.3	8.4	9.3	3.8	2.6	3.2	6.8	6.6	6.6	6.5	6.1	6.3
4	12.1	9.3	10.3	4.1	3.0	3.5	7.6	6.4	7.0	6.5	6.3	6.4
5	10.6	8.9	9.6	4.6	3.4	4.0	7.1	6.5	6.9	6.5	5.9	6.2
6	9.4	7.8	8.5	4.5	3.3	3.8	7.0	6.1	6.5	6.0	5.4	5.8
7	9.3	6.7	7.8	5.6	2.3	3.3	7.6	6.5	7.0	5.6	5.1	5.4
8	8.8	6.6	7.8	6.2	5.1	5.5	7.2	6.0	6.6	5.7	5.0	5.2
9	8.5	5.8	6.4	5.1	5.0	5.0	6.6	5.4	6.1	5.5	4.8	5.1
10	5.9	4.8	5.2	6.1	4.8	5.3	6.7	5.7	6.2	6.3	5.3	5.8
11	7.1	4.1	5.5	5.2	4.8	5.0	7.3	5.9	6.5	6.8	5.9	6.3
12	7.6	5.5	6.4	4.8	3.9	4.4	6.8	5.7	6.3	6.8	6.2	6.4
13	8.4	6.0	7.2	3.9	3.3	3.6	7.6	5.7	6.7	6.7	5.9	6.2
14	10.6	7.6	8.8	3.8	2.9	3.3	7.4	6.4	6.8	6.8	6.0	6.3
15	10.3	7.8	9.0	4.5	2.9	3.6	7.7	6.3	7.0	7.0	6.2	6.6
16	9.9	7.7	8.6	4.9	3.4	4.0	8.0	6.5	7.1	7.3	6.5	6.9
17	9.1	6.5	8.1	4.8	3.7	4.1	8.7	7.4	8.0	7.2	6.7	6.9
18	8.2	6.3	7.5	4.5	4.2	4.3	9.5	7.7	8.5	6.8	5.9	6.5
19	7.3	6.6	7.0	4.6	4.3	4.4	8.9	8.1	8.4	6.4	5.6	6.0
20	8.0	6.4	7.5	4.6	4.0	4.3	8.2	7.0	7.5	7.7	5.8	7.3
21	7.1	6.4	6.7	4.9	4.0	4.7	7.6	6.7	7.0	8.2	7.4	7.7
22	8.0	6.6	7.2	5.8	4.9	5.4	7.6	6.4	7.0	8.3	7.6	7.9
23	7.5	6.9	7.1	6.6	5.8	6.3	7.5	6.3	6.9	8.6	8.2	8.4
24	7.5	6.3	6.8	6.9	6.5	6.7	7.4	6.1	6.8	9.1	8.2	8.7
25	7.0	5.4	6.0	6.6	5.9	6.4	7.2	6.0	6.6	9.4	8.7	9.2
26 27 28 29 30 31	6.3 6.6 6.1 5.8 5.3	5.5 5.6 5.1 4.7 4.2	5.8 6.1 5.6 5.2 4.8	6.0 5.8 5.7 6.3 6.3 6.3	5.5 5.4 5.3 5.5 5.6 5.5	5.9 5.6 5.5 5.9 5.9 5.8	6.9 6.7 6.5 6.4 4.3 4.9	5.6 5.4 5.3 3.6 3.7 4.3	6.3 6.1 6.1 5.0 4.0 4.7	10.1 10.2 9.7 9.5 8.9	9.2 9.5 9.2 8.5 8.3	9.5 9.9 9.4 9.1 8.6
MONTH YEAR	12.1 16.5	4.1 2.3	7.3 7.2	6.9	2.3	4.7	9.5	3.6	6.6	10.2	4.8	7.0

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
Dill	1012 121	OCTOBER			OVEMBE			ECEMBE			JANUARY	
1												
2												
3 4												
5												
6												
7 8												
9												
10												
11												
12 13												
14												
15												
16												
17 18												
19												
20												
21 22												
23												
24 25												
26 27												
28												
29 30												
31												
MONTH												
MONTH												
MONTH		 FEBRUAR			 MARCH			 APRIL			MAY	
1												e190
$\frac{1}{2}$		FEBRUAR	Y 		MARCH 			APRIL			MAY 	e190 e160
1		FEBRUAR	Y		MARCH			APRIL			MAY	e190 e160 e110
1 2 3	 	FEBRUAR 	Y 	 	MARCH 	 		APRIL 			MAY 	e190 e160
1 2 3 4 5 6	 	FEBRUAR	Y 	 	MARCH 	 		APRIL 	 	 	MAY 	e190 e160 e110 e94 e87 e97
1 2 3 4 5 6 7	 	FEBRUAR 	Y 	 	MARCH 	 	 	APRIL 	 	 	MAY 	e190 e160 e110 e94 e87 e97 e110
1 2 3 4 5 6 7 8 9	 	FEBRUAR	Y 	 	MARCH			APRIL	 	 	MAY 	e190 e160 e110 e94 e87 e110 e120 e130
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y 	 	MARCH			APRIL	 	 	MAY 	e190 e160 e110 e94 e87 e97 e110 e120 e130 e140
1 2 3 4 5 6 7 8 9 10 11	 	FEBRUAR [*] 	Y 	 	MARCH			APRIL	 		MAY 	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99
1 2 3 4 5 6 7 8 9 10 11 12 13	 	FEBRUAR 	Y 	 	MARCH	 		APRIL			MAY	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUAR' 	Y		MARCH			APRIL		 44	MAY	e190 e160 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\end{array} $		FEBRUAR	Y		MARCH			APRIL		 44 38	MAY	e190 e160 e110 e94 e87 e10 e120 e130 e140 e99 e86 e69 32 27
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\end{array} $		FEBRUAR' 	Y		MARCH		 48	APRIL		 44 38 31	MAY 23 20 19	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26
$ \begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ \end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62	APRIL 34 36 39	 41 42 49	 44 38 31 25 24	MAY 23 20 19 16 15	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62 93	APRIL 34 36 39 49	 41 42 49 70	 44 38 31 25 24 820	MAY 23 20 19 16 15 17	e190 e160 e110 e94 e87 e10 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170
$ \begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ \end{array} $		FEBRUAR 	Y		MARCH		 48 48 62 93 54	APRIL 34 36 39 49 38	 41 42 49 70 47	 44 38 31 25 24 820 830	MAY 23 20 19 16 15 17 20	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62 93 54 49 52	APRIL	 41 42 49 70 47 44 48	 44 38 31 25 24 820 830 350 210	MAY 23 20 19 16 15 17 20 22 34	e190 e160 e110 e94 e87 e10 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $		FEBRUAR 	Y		MARCH		 48 48 62 93 54 49 52 63	APRIL 34 36 39 49 38 39 44 45	 41 42 49 70 47 44 48 55	 44 38 31 25 24 820 830 350 210 140	MAY	e190 e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62 93 54 49 52	APRIL	 41 42 49 70 47 44 48	 44 38 31 25 24 820 830 350 210	MAY 23 20 19 16 15 17 20 22 34	e190 e160 e110 e94 e87 e10 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\end{array} $		FEBRUAR 	Y		MARCH		 48 48 62 93 54 49 52 63 110	APRIL	 41 42 49 70 47 44 48 55 81	 44 38 31 25 24 820 830 350 210 140 79	MAY	e190 e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $		FEBRUAR 	Y		MARCH		 48 48 62 93 54 49 52 63 110 230 320 320	APRIL 34 36 39 49 38 39 49 38 39 44 45 53 110 140 210	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ +1 \\ 42 \\ 49 \\ 70 \\ 47 \\ 44 \\ 48 \\ 55 \\ 81 \\ 160 \\ 210 \\ 260 \end{array}$	 -	MAY	e190 e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $		FEBRUAR 	Y		MARCH		 48 48 62 93 54 49 52 63 110 230 320	APRIL	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	 44 38 31 25 24 820 830 350 210 140 79 290 290	MAY	e190 e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62 93 54 49 52 63 110 230 320 430 	APRIL 34 36 39 49 38 39 44 45 53 110 140 210 220 	 41 42 49 70 47 44 48 55 81 160 210 260 330 e270 e230	 44 38 31 25 24 830 830 350 210 140 79 290 350 	MAY	e190 e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210 e150 e110
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\end{array} $		FEBRUAR 	Y		MARCH		 48 48 48 62 93 54 49 52 63 110 230 320 320 320 320 320	APRIL	 41 42 49 70 47 44 48 55 81 160 210 260 330 e270	 44 38 31 25 24 820 830 350 210 140 79 290 290 350 	MAY	e190 e160 e110 e94 e87 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210 e150

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1 2 3 4 5	 25 27	 14 14	e63 e31 e22 18 20	65 62 71 63 74	53 50 50 53 47	58 56 59 60 60	66 79 39 49 40	21 14 14 21 25	39 53 23 30 31	130 69 52 44 39	69 43 35 30 27	100 58 44 38 34
6 7 8 9 10	25 21 31 23 20	16 14 16 13 11	20 16 21 17 14	74 350 740 510 890	40 41 160 160 160	50 85 340 260 400	41 44 34 32 30	26 23 20 20 21	33 33 27 26 26	29 27 33 28 50	24 22 20 21 20	27 24 25 23 29
11 12 13 14 15	16 27 22 28 25	9.4 12 12 11 12	12 16 16 15 17	300 110 46 84 98	110 46 39 41 34	190 66 43 47 45	33 30 30 28 29	20 18 18 18 18	26 24 24 23 24	46 45 44 40 31	20 18 22 21 21	30 29 29 30 25
16 17 18 19 20	35 47 47 120 75	12 11 16 17 24	16 17 20 32 49	160 220 150 250 110	37 55 54 69 57	70 130 83 140 72	38 43 28 25 26	17 26 15 18 20	23 31 22 22 23	39 40 28 31 38	22 21 17 19 27	29 28 22 24 31
21 22 23 24 25	76 52 59 53 62	44 32 32 26 26	53 40 40 36 47	94 67 69 61 60	54 51 49 43 40	65 61 58 51 49	30 27 28 26 22	19 19 19 16 15	24 23 23 21 18	36 35 37 38 26	23 19 20 24 21	28 27 29 27 24
26 27 28 29 30 31	62 87 100 120 67	38 44 64 57 51	47 62 85 83 57	54 52 48 100 74 44	38 38 32 32 33 20	46 44 40 54 49 34	20 21 33 710 450 230	13 12 12 15 230 130	17 16 16 220 320 180	27 32 35 34 36	18 19 17 17 18	23 24 25 27 26
MONTH YEAR	120 890	9.4 9.4	33 68	890	20	92	710	12	46	130	17	31

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002	1000	10	16	10.6	7.0	700	15.6		0.00	0.050	0.050	0.050	0.010
07 NOV	1200	10	16	10.6	7.8	700	15.6	7.7	0.29	< 0.050	< 0.050	< 0.050	< 0.010
04	1330	4.5	12	13.4	7.8	1,000	5.5	0.1	0.52	< 0.050	< 0.050	< 0.050	< 0.010
DEC	1215	2.5	5.0	10.7		022	0.5	0.0	0.00	0.050	0.050	0.120	0.010
09 JAN 2003	1315	2.5	5.0	10.7	7.5	932	0.5	0.0	0.32	< 0.050	< 0.050	0.120	< 0.010
13	1335	1.3	12	11.7	7.0	928	-17.0	-3.0		< 0.050	0.050	0.270	< 0.010
FEB 10	1430	1.5	4.2	8.2	7.1	864	-14.3	-0.3	0.28	0.090	0.090	0.260	< 0.010
MAR	1430	1.5	4.2	0.2	/.1	804	-14.5	-0.5	0.28	0.090	0.090	0.200	<0.010
24	1245	14	20	11.5	7.5	597	13.4	0.1	1.4	0.310	0.320	0.690	0.040
APR 14	1315	6.8	20	9.1	8.0	822	21.0	15.0		< 0.050	< 0.050	0.060	< 0.050
MAY	1010						21.0					0.000	
19	1440	28	55	8.3	8.0	1,150	11.5	14.7	1.4	< 0.050	< 0.050	0.420	< 0.010
JUN 02	1315	11	52	6.8	8.2	1,070	21.0	18.2	1.4	0.050	0.060	0.160	< 0.010
16	1310	8.8	110	5.2	8.2	939	30.0	24.0					
JUL	1.120	1.7	100	()		020	10.6	20.0	1.5	0.070	0.1.40	0.000	0.040
09 21	$1420 \\ 1400$	15 8.2	120 50	6.2 5.7	7.6 7.9	939 986	19.6 22.2	20.8 23.6	1.5 1.2	0.070 <0.050	0.140 <0.050	$0.290 \\ 0.200$	$0.040 \\ 0.020$
AUG	1400	0.2	50	5.7	1.9	200	22.2	25.0	1.2	20.050	<0.050	0.200	0.020
05	1010	2.5	21	5.6	8.0	803	26.5	22.5	0.56	0.050	< 0.050	0.090	< 0.010
19 SEP	1400	1.6	12	4.9	7.7	734	34.3	27.1	0.58	0.060	0.070	< 0.050	< 0.010
03	1500	1.0	16	7.1	7.9	715	21.5	18.7	0.53	< 0.050	< 0.050	< 0.050	< 0.010
18	0930	2.3	21	6.6	7.6	665	9.0	15.8	0.58	0.060	0.100	0.380	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07	0.025	0.062	140	140	31k	4.34	99	13
NOV	0.016	0.020	01	41	21	1.15	07	44
04 DEC	0.016	0.038	8k	41	21	1.15	86	44
09	0.014	0.028				0.530	93	16
JAN 2003								
13	0.018	0.034				1.11	78	94
FEB	0.027	0.042						
10 MAR	0.027	0.042						
24	0.119	0.206				1.51	99	29
APR								
14	0.030	0.090	62	48	60	5.15	99	107
MAY 19	0.058	0.128	88	180	490	10.9	99	34
19 JUN	0.058	0.128	00	180	490	10.9	99	54
02	0.117	0.206	80k	120	310	< 0.460	97	58
16			E700k	140	357	5.93	100	66
JUL	0.040	0.050	1 (00)	1 200	• • • • •		100	<i>(</i> 0
09	0.249	0.370	>1,600	>1,200	>2,000	2.14	100	69
21 AUG	0.166	0.251	230	160	367	2.65	100	42
05	0.083	0.137	160	270	233	3.94	100	31
19	0.110	0.154	120	250	>1,000k	2.54	94	15
SEP								
03	0.094	0.153	300	170	263	3.88	99	19
18	0.102	0.186	800	7,900k	8,000k		100	33

Remark codes used in this table: < -- Less than E -- Estimated value > -- Greater than

Value qualifier codes used in this table: k -- Counts outside acceptable range

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R	E	DECEMBE	R		JANUARY	
1 2 3 4 5	13.3 12.4 10.8 10.0 9.5	12.4 10.8 9.7 9.4 8.9	12.9 11.7 10 9.7 9.3	0.7 0.7 0.5 0.6 0.6	$\begin{array}{c} 0.4 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \end{array}$	$0.5 \\ 0.5 \\ 0.4 \\ 0.4 \\ 0.5$	0.4 0.3 0.2 0.2 0.1	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	0.2 0.2 0.1 0.1 0.1	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
6 7 8 9 10	9.3 8.6 9.2 8.3 9.1	8.6 7.4 8.2 7.5 7.7	8.9 8.0 8.8 8.0 8.1	0.8 1.3 2.2 2.6 2.1	$\begin{array}{c} 0.3 \\ 0.5 \\ 1.0 \\ 1.3 \\ 1.2 \end{array}$	0.6 0.9 1.6 1.9 1.8	$\begin{array}{c} 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
11 12 13 14 15	10.7 10.8 9.3 7.6 7.3	9.1 9.3 6.8 5.9 6.3	9.9 10.1 7.7 6.7 6.9	1.2 0.7 0.5 0.5 0.5	$\begin{array}{c} 0.5 \\ 0.4 \\ 0.3 \\ 0.2 \\ 0.2 \end{array}$	$0.7 \\ 0.5 \\ 0.4 \\ 0.3 \\ 0.3$	$\begin{array}{c} 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
16 17 18 19 20	6.3 5.7 5.1 4.8 4.0	5.5 5.1 4.8 4.0 3.1	6.1 5.4 4.9 4.4 3.4	$0.4 \\ 0.6 \\ 0.5 \\ 0.5 \\ 0.6$	$\begin{array}{c} 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	0.3 0.4 0.3 0.3 0.4	$\begin{array}{c} 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
21 22 23 24 25	3.1 2.9 2.9 2.3 2.1	2.3 2.2 2.2 1.6 1.6	2.6 2.6 2.4 1.9 1.8	$0.7 \\ 1.0 \\ 0.8 \\ 0.4 \\ 0.4$	$\begin{array}{c} 0.4 \\ 0.7 \\ 0.4 \\ 0.3 \\ 0.2 \end{array}$	0.6 0.8 0.6 0.3 0.3	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
26 27 28 29 30 31	2.8 3.3 4.1 4.1 3.3 1.0	1.9 2.4 3.2 3.3 1.0 0.4	2.3 2.9 3.6 3.9 2.2 0.6	0.3 0.3 0.4 0.4 0.3	0.2 0.1 0.1 0.1 0.1	0.2 0.2 0.2 0.2 0.2	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$
MONTH	13.3	0.4	6.1	2.6	0.1	0.6	0.4	0.1	0.1	0.1	0.1	0.1
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	$0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	 	 	 	 	 	 	15.0 15.4 15.5 15.7 12.0	11.4 11.6 12.6 12.0 10.2	13.3 13.7 14.2 13.9 10.7
6 7 8 9 10	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	 	 	 	 	 	 	10.4 14.5 15.0 14.9	9.5 9.2 13.7 11.2	9.9 11.2 14.3 12.4
11 12 13 14 15	 	 	 	 	 	 	 14.6	 12.7	 13.7	 	 	
16 17 18 19 20	 	 	 	 	 	 	12.7 5.5 5.6 5.3 5.7	5.5 1.7 3.9 4.2 4.7	9.9 3.4 4.8 4.7 5.0	 	 	
21 22 23 24 25	 	 	 	 	 	 	9.7 12.3 13.5 14.7 15.8	4.6 7.5 9.8 11.6 12.4	6.5 9.7 11.5 13.0 13.9	19.2 19.1 17.5 18.9	14.1 16.0 15.0 13.6	16.1 17.2 15.8 15.6
26 27 28 29 30 31	 	 	 	 	 	 	16.4 16.8 16.3 13.7 14.0	12.9 13.9 11.5 11.3 10.3	14.7 15.5 13.3 12.2 12.0	19.8 19.8 20.8 21.0 21.0 17.6	16.0 17.2 17.1 18.3 16.0 13.9	18.0 18.4 18.7 19.7 18.5 15.4
MONTH	0.1	0.1	0.1				16.8	1.7	10.2	21.0	9.2	15.1

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1 2 3 4 5	19.7 19.7 18.2 18.6 19.5	16.5 18.0 16.2 16.8 17.8	17.9 18.7 17.4 17.8 18.7	25.7 26.8 27.7 27.6 27.0	22.5 24.1 24.4 23.7 23.5	23.9 25.3 26.0 25.4 25.3	23.5 23.4 23.2 23.9	21.2 20.9 21.0 21.4	22.5 22.2 22.2 22.6	18.9 19.6 19.0 18.7 19.7	17.8 17.8 17.4 16.4 16.6	18.4 18.6 18.2 17.5 17.9
6 7 8 9 10	19.5 18.4 18.5 20.1 20.1	18.3 17.3 16.8 17.4 18.3	18.8 17.7 17.5 18.3 18.9	27.6 27.2 25.1 24.1 19.2	25.1 23.8 22.7 19.2 16.8	26.5 25.2 23.9 21.5 17.8	24.9 24.9 24.9 24.7 24.7	22.4 22.4 22.8 22.4 21.5	23.7 23.7 24.0 23.1 23.0	21.0 21.7 21.3 20.6 19.6	17.8 18.9 19.3 19.0 18.8	19.2 20.2 20.3 19.5 19.1
11 12 13 14 15	20.9 22.3 23.7 24.3 25.6	17.6 19.7 21.2 22.0 23.0	19.0 20.9 22.5 23.3 24.2	20.3 22.6 24.9 26.0 25.9	17.9 19.0 21.1 23.1 22.7	18.9 20.4 22.6 24.4 24.2	25.2 25.2 24.7 25.3 26.0	22.3 22.4 22.2 22.7 23.5	23.8 23.9 23.6 24.1 24.8	19.6 18.5 18.4 17.6 16.2	18.2 17.1 17.0 15.6 14.5	18.8 17.9 17.8 16.5 15.3
16 17 18 19 20	25.2 26.5 25.1 24.7 24.4	23.9 23.5 21.6 21.1 21.0	24.4 24.5 23.2 23.0 22.8	26.8 26.8 24.4 26.1 26.9	22.7 23.5 21.5 23.7 25.3	24.6 24.7 23.0 24.8 26.0	26.2 26.6 27.9 27.9 27.0	23.9 23.7 25.2 25.8 25.6	25.2 25.2 26.4 26.9 26.4	17.4 18.3 	15.3 16.9 	16.0 17.8
21 22 23 24 25	23.6 22.9 22.8 22.8 22.5	20.7 20.4 20.4 20.2 18.3	21.8 21.5 21.5 21.9 19.6	25.5 23.8 24.3 24.9 23.9	22.8 21.4 21.4 21.6 22.7	23.9 22.6 22.8 23.1 23.2	26.1 23.9 24.4 24.8 25.3	23.6 21.6 21.9 23.4 22.9	24.6 22.7 23.1 24.0 24.0	 	 	
26 27 28 29 30 31	18.3 19.4 20.0 22.6 24.5	16.1 17.0 16.4 19.3 20.9	17.2 18.0 17.9 20.5 22.4	24.6 23.9 24.9 25.2 24.9 24.0	22.5 21.9 21.3 22.1 22.5 21.9	23.5 23.0 23.0 23.7 23.7 23.1	25.1 23.7 23.0 21.9 19.8 20.1	23.1 21.4 21.2 19.7 17.7 17.1	24.0 22.2 21.9 20.6 18.8 18.5	 	 	
MONTH	26.5	16.1	20.4	27.7	16.8	23.5	27.9	17.1	23.4	21.7	14.5	18.2
YEAR	27.9	0.1	11.0									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX		MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMB	ER		DECEMBE	λ		JANUARY	
1 2 3 4 5	738 738 693 674 675	700 688 673 659 652	717 709 683 667 662	962 980 953 964 963	861 894 902 921 914	886 925 925 940 927	922 926 1,260 1,300 1,150	891 879 893 1,150 1,050	909 888 1,040 1,230 1,100	765 782 809 787 767	755 764 782 767 759	762 770 798 778 763
6 7 8 9 10	662 658 695 732 724	622 637 658 694 718	646 648 683 720 720	933 932 874 874 840	915 863 778 783 813	921 897 839 846 828	1,050 961 933 922 895	961 915 906 887 859	1,000 929 917 900 879	759 788 763 752 754	755 749 749 746 744	757 756 751 748 747
11 12 13 14 15	751 756 760 762 763	723 749 756 755 753	740 752 758 758 756	834 903 873 879 882	812 834 803 827 840	825 869 831 855 862	859 852 851 813 797	840 838 811 792 779	849 847 833 803 789	777 826 911 903 890	754 777 826 888 868	764 797 880 891 881
16 17 18 19 20	767 755 741 735 730	755 738 725 725 708	764 748 734 728 720	915 963 1,040 955 935	877 913 955 924 879	893 933 1,000 934 910	792 797 815 784 784	778 780 774 771 763	781 789 787 777 774	868 843 817 820 813	843 817 813 813 802	853 834 815 816 808
21 22 23 24 25	718 742 763 761 772	708 715 740 748 758	714 734 752 757 766	882 875 832 887 923	871 832 822 829 874	876 851 825 840 900	763 772 786 802 829	752 752 769 781 801	755 764 780 791 812	802 812 818 824 826	794 793 812 816 818	797 801 816 821 824
26 27 28 29 30 31	776 789 784 800 823 861	768 768 773 784 797 823	771 777 779 792 808 837	988 940 1,020 1,060 967	867 867 940 962 913	935 911 991 1,030 945	844 825 833 822 793 767	825 818 821 789 767 752	835 820 827 805 779 758	818 813 805 774 768 762	812 805 774 761 761 748	815 811 791 765 766 755
MONTH	861	622	735	1,060	778	898	1,300	752	856	911	744	798
		FEBRUARY			MARCH	Н		APRIL			MAY	
1 2 3 4 5	748 742 800 794 844	734 734 742 768 782	740 736 775 779 826	 	 	 	 	 	 	993 997 992 1,000 993	970 961 960 962 964	986 981 978 983 979
6 7 8 9 10	817 857 856 832	803 817 832 802	811 841 850 809	 	 	 	 	 	 	1,030 1,060 1,070 1,120	961 1,010 1,060 1,010	994 1,030 1,070 1,070
11 12 13 14 15	 	 	 	 	 	 	 827	 794	 820	 	 	
16 17 18 19 20	 	 	 	 	 	 	925 1,060 720 865 844	768 576 673 685 736	812 784 694 766 796	 	 	
21 22 23 24 25	 	 	 	 	 	 	931 969 1,010 1,010 1,010	844 931 969 1,010 1,010	888 949 993 1,010 1,010	1,120 1,120 1,130 1,120	1,060 1,090 1,120 1,070	1,100 1,110 1,120 1,090
26 27 28 29 30 31	 	 	 	 	 	 	1,010 1,010 1,010 1,010 998	1,000 1,000 994 996 986	1,000 1,000 1,000 1,000 995	$1,110 \\ 1,100 \\ 1,100 \\ 1,100 \\ 1,100 \\ 1,100 \\ 1,090$	1,090 1,090 1,090 1,080 1,060 1,060	1,100 1,100 1,100 1,090 1,080 1,080
MONTH	857	734	796				1,060	576	907	1,130	960	1,050

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	R
1	1.060	1.030	1.050	637	552	591	829	818	824	670	666	668
$\frac{1}{2}$	1,000	1,030	1,040	716	637	677	818	809	812	673	667	669
$\frac{2}{3}$								809	804		566	
5	1,070	1,030	1,060	803	716	761	813			667		657
4 5	1,070	1,010 996	1,050	865	801	831 893	803	794	798	664	662	663
5	1,050	990	1,020	915	865	893				666	651	662
6	1,080	992	1,030	952	915	932	790	772	780	670	661	665
7	1,070	983	1,030	970	948	954	776	759	766	681	669	675
8	992	940	968	982	968	974	762	751	756	683	667	680
9	1,020	896	984	1,000	875	949	758	745	754	695	682	686
10	962	858	929	946	585	733	750	694	742	696	679	685
10								071		070		
11	982	937	963	695	640	675	738	717	725	687	682	685
12	961	922	942	677	647	657	724	713	717	689	685	687
13	957	908	932	738	677	710	720	713	716	695	664	683
14	964	915	936	816	738	775	725	715	720	689	605	677
15	970	922	941	881	816	848	718	715	717	690	664	668
16	1.040	051	000	020	0.0.1	007	701	717	710	(70)	(()	
16	1,040	951	980	939	881	907	721	717	718	672	664	666
17	1,030	512	921	969	939	948	724	718	721	680	638	672
18	867	487	669	993	969	977	722	711	718			
19	869	841	855	1,050	976	1,000	714	709	712			
20	903	843	863	1,020	989	1,000	712	708	710			
21	916	702	906	1,020	975	994	708	703	704			
22	1,040	695	958	1,010	956	983	705	698	701			
23	1,030	895	935	1,010	951	982	701	692	698			
24	980	416	760	994	939	970	698	661	691			
25	499	211	382	996	936	954	710	667	692			
26	485	429	453	936	915	921	694	676	689			
27	501	416	482	927	895	907	692	680	687			
28	454	373	403	912	895	904	690	678	685			
29	491	413	440	901	873	887	681	673	675			
30	552	491	518	882	851	871	674	653	670			
31				859	829	847	671	657	667			
MONTH	1,080	211	847	1,050	552	871	829	653	726	696	566	673
	ŕ			/								
YEAR	1,300	211	830									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

					R OCTOBER				.005			
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVE	MBER	DECE	MBER	JANU	ARY	FEBRU	UARY	MAI	RCH
1	8.3	8.2	8.2	8.2	8.1	8.0	7.9	7.8	7.9	7.8 7.9		
2 3	8.3 8.3	8.2 8.2	8.2 8.2	8.1 8.1	8.1 8.1	$\begin{array}{c} 8.0\\ 8.0\end{array}$	7.9 7.9	7.8 7.8	7.9 7.9	7.9 7.9		
4 5	8.3 8.2	8.2 8.1	8.2 8.2	8.1 8.1	8.0 7.9	7.9 7.9	7.9 7.9	7.9 7.9	8.0 8.0	7.9 7.9		
								7.9		7.9		
6 7	8.2 8.2	8.1 8.1	8.2 8.2	8.1 8.1	7.9 7.8	7.8 7.8	7.9 7.9	7.9 7.9	7.9 7.9	7.9 7.9		
8 9	8.2 8.2	8.2 8.2	8.2 8.1	8.1 8.0	7.8 8.0	7.8 7.8	$\begin{array}{c} 8.0\\ 8.0\end{array}$	7.9 7.9	7.9 7.9	7.9 7.9		
10	8.2	8.1	8.1	8.0	8.0	8.0	8.0	7.9				
11	8.2	8.1	8.2	8.1	8.0	7.9	8.0	7.9				
12 13	8.2 8.2	8.1 8.1	8.2 8.2	8.1 8.1	8.0 8.0	$\begin{array}{c} 8.0\\ 8.0\end{array}$	8.0 7.9	7.9 7.9				
14	8.2	8.2	8.2	8.1	8.0	8.0	8.0	7.9				
15	8.2	8.1	8.1	8.1	8.0	8.0	7.9	7.9				
16 17	8.1 8.2	8.1 8.1	8.1 8.1	8.1 8.0	8.0 8.0	8.0 8.0	7.9 7.9	7.9 7.9				
18	8.2	8.1	8.1	8.0	8.0	8.0	7.9	7.9				
19 20	8.2 8.3	8.1 8.2	8.1 8.1	8.0 8.1	8.0 8.0	$\begin{array}{c} 8.0\\ 8.0\end{array}$	7.9 7.9	7.9 7.9				
20	8.3	8.2	8.1	8.1	8.0	8.0	7.9	7.8				
22	8.3	8.2	8.2	8.1	8.0	8.0	7.9	7.8				
23 24	8.3 8.3	8.2 8.3	8.2 8.2	8.2 8.2	8.0 8.0	$\begin{array}{c} 8.0\\ 8.0\end{array}$	7.8 7.8	7.8 7.8				
25	8.3	8.2	8.2	8.1	8.0	7.9	7.8	7.8				
26	8.2	8.2	8.2	8.1	7.9	7.8	7.8	7.8				
27 28	8.2 8.2	8.1 8.2	8.2 8.1	8.1 8.0	7.9 7.9	7.8 7.8	7.8 7.8	7.8 7.8				
29	8.2	8.1	8.1	8.0	7.9	7.8	7.8	7.8				
30 31	8.2 8.2	8.1 8.2	8.1	8.0	7.9 7.9	7.8 7.8	7.8 7.9	7.8 7.8				
MONTH	8.3	8.1	8.2	0.0	8.1			7.8	0.0	7.0		
		0.1	0.2	8.0	0.1	1.8	8.0	/.0	8.0	7.8		
MOIVIII				8.0 AY		7.8 NE	8.0 II II		8.0 AUG	7.8 UST	SEPTE	MBER
	API	RIL	MA	AΥ	JUI	NE	JUI	LY	AUG	UST	SEPTE	
1 2	API 	RIL 	MA 8.3 8.4	8.1 8.1	JUI 8.3 8.3	NE 8.2 8.2	JUI 7.6 7.6	LY 7.5 7.5	AUG 8.1 8.1	UST 8.0 8.0	8.1 8.1	7.9 8.0
1 2 3	API 	RIL 	MA 8.3 8.4 8.4	8.1 8.1 8.1 8.1	JUI 8.3 8.3 8.3	NE 8.2 8.2 8.2	JUI 7.6 7.6 7.6	2Y 7.5 7.5 7.6	AUG 8.1 8.1 8.1	UST 8.0 8.1	8.1 8.1 8.2	7.9 8.0 7.8
1 2	API 	RIL 	MA 8.3 8.4	8.1 8.1	JUI 8.3 8.3	NE 8.2 8.2	JUI 7.6 7.6	LY 7.5 7.5	AUG 8.1 8.1	UST 8.0 8.0	8.1 8.1	7.9 8.0
1 2 3 4 5 6	API 	RIL 	MA 8.3 8.4 8.4 8.3 8.2 8.2	8.1 8.1 8.1 8.0 8.0 8.0	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8	-Y 7.5 7.6 7.6 7.6 7.7 7.7	AUG 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.2	7.9 8.0 7.8 7.8 7.3 7.1
1 2 3 4 5 6 7	API 	RIL 	MA 8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.2	XY 8.1 8.1 8.0 8.0 8.0 8.0 8.0	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8	.Y 7.5 7.6 7.6 7.7 7.7 7.7	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.0	UST 8.0 8.1 8.0 8.0 7.9	8.1 8.2 8.2 8.2 8.0 7.9	7.9 8.0 7.8 7.8 7.3 7.1 7.2
1 2 3 4 5 6 7 8 9	APP	RIL 	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.9	-Y 7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5
1 2 3 4 5 6 7 8 9 10	API	RIL 	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.3 8.2	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.9 7.9	7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7
1 2 3 4 5 6 7 8 9 10 11	APP	RIL 	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.2 8.2 8.2	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9	-Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0	8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13	APP	RIL 	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.6 7.7	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12	APP	RIL 	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9	-Y 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.6 7.6 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.7 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.7
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\end{array} $	APP	RIL	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.6 7.6 7.6 7.7 7.8 7.8 7.8	-Y 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7	AUG 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	$\begin{array}{c} 7.9\\ 8.0\\ 7.8\\ 7.8\\ 7.3\\ 7.1\\ 7.2\\ 6.8\\ 7.5\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\end{array} $	APP	RIL 8.2 8.1 7.7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 	XY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 -	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.6 7.6 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	$\begin{array}{c} 7.9\\ 8.0\\ 7.8\\ 7.8\\ 7.3\\ 7.1\\ 7.2\\ 6.8\\ 7.5\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\end{array}$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $	APP	RIL 8.2 8.1	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.6 7.7 7.8 7.8 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.8	AUG 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	$\begin{array}{c} 7.9\\ 8.0\\ 7.8\\ 7.8\\ 7.3\\ 7.1\\ 7.2\\ 6.8\\ 7.5\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.6\\ 7.7\\ 7.7$
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	APP	RIL 8.2 8.1 7.7 7.7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.2 8.2 8.1 8.1 8.1 8.2 8.1 7.9	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.9 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.9	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.1 -	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 -	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.6 7.6 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.8 7.9 7.8 7.9 7.9 8.0	AUG 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.9 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 -	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.1	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 7.9 7.9	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	UST 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.8 7.7 7.8 8.1	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.9	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.1 8.3 8.3 8.2	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.2 8.1 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.6 7.7 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.2	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1 8.1	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.8 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	8.1 8.1 8.2 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 -	JUI 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.1 8.2 8.1 8.0 7.7	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.8 7.9 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 8.0	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.1 8.3 8.3 8.2 8.2 8.3 8.2 8.3 8.2	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.6 7.7 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.0 8.0	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	AY 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.0 7.7 7.5 7.5 7.5	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.6 7.6 7.6 7.7 7.8 7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	APR	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.1 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.0 7.7 7.5 7.5 7.5 7.5 7.5 7.5	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\\31\end{array} $	APP	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MA 8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.2	JUI 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.8 7.7 7.8 8.1 8.1 8.1 8.1 7.7 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	8.1 8.2 8.2 8.2 8.0 7.9 7.8 7	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\end{array} $	APR	RIL 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MA 8.3 8.4 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	JUI 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.1 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.0 7.7 7.5 7.5 7.5 7.5 7.5 7.5	NE 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	JUI 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	Y 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	AUG 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	UST 8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7	7.9 8.0 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		Ν	OVEMBE	R	D	ECEMBE	R		JANUARY	-
1 2 3 4 5	8.3 8.1 8.8 9.3 8.6	7.7 7.6 8.1 8.3 8.2	8.0 7.9 8.5 8.8 8.4	14.3 14.7 14.5 14.5 14.5	13.0 13.1 13.2 13.2 13.4	13.7 13.8 13.8 13.8 13.8 14.0	14.0 14.8 15.2 13.3 12.7	13.5 13.7 13.3 12.7 12.0	13.7 14.1 14.2 13.1 12.2	12.2 12.1 12.6 12.5 12.1	10.9 10.9 11.2 11.2 11.0	11.5 11.4 11.8 11.8 11.6
6 7 8 9 10	9.6 10.2 10.0 9.7 9.5	8.6 8.9 9.3 9.2 8.6	9.1 9.6 9.8 9.4 8.9	14.2 14.6 14.0 13.3 13.4	13.4 13.5 12.8 12.6 12.5	13.8 13.9 13.6 12.9 12.9	12.2 12.2 11.8 11.9 12.0	11.9 11.6 11.4 11.4 11.3	12.1 11.9 11.6 11.7 11.6	11.9 12.0 12.8 13.6 13.6	11.1 11.1 11.1 11.4 11.5	11.5 11.5 11.8 12.3 12.4
11 12 13 14 15	8.7 8.1 9.7 10.3 9.9	7.7 7.1 7.5 9.1 8.4	8.0 7.5 8.2 9.7 8.8	14.0 14.5 14.4 14.4 15.0	12.8 13.3 13.6 13.7 13.9	13.5 13.9 14.0 14.1 14.5	12.2 12.6 12.7 12.8 13.2	11.4 11.8 12.1 12.0 11.9	11.9 12.2 12.4 12.5 12.6	13.2 13.1 12.9 13.1 11.6	11.5 11.8 12.2 11.6 10.4	12.2 12.2 12.6 12.5 11.2
16 17 18 19 20	9.0 9.8 10.3 10.6 11.7	8.6 8.8 9.5 9.9 10.3	8.8 9.5 10 10.3 10.8	15.3 14.6 14.6 14.4 14.5	14.1 14.0 13.5 13.4 13.5	14.6 14.4 14.0 13.9 13.9	13.4 13.0 12.6 11.8 11.9	12.1 12.2 11.6 11.3 11.3	12.8 12.6 11.9 11.6 11.6	10.4 10.3 10.2 9.6 9.2	10.0 9.7 9.3 8.9 8.5	10.3 10.1 9.7 9.2 8.8
21 22 23 24 25	12.2 12.7 12.9 12.9 13.4	11.1 11.6 11.6 12.0 12.2	11.6 12.1 12.3 12.5 12.7	14.1 14.0 14.3 14.2 14.2	13.2 13.1 13.4 13.6 13.8	13.7 13.5 13.9 13.9 13.9	11.5 11.8 12.0 12.1 12.3	11.0 11.1 11.4 11.6 11.8	11.3 11.4 11.7 11.8 12.0	8.9 8.8 8.7 8.8 8.8	8.1 8.2 7.9 8.0 8.3	8.5 8.5 8.3 8.3 8.5
26 27 28 29 30 31	12.9 12.8 12.5 11.8 12.6 14.3	11.9 11.6 11.2 10.6 11.2 12.1	12.6 12.1 11.9 11.3 11.9 13.4	14.9 15.5 15.0 14.9 14.5	14.1 14.0 13.8 13.6 13.3	14.5 14.6 14.4 14.3 13.9	12.3 12.2 12.1 11.8 11.6 12.1	12.0 11.6 11.2 11.1 10.8 10.7	12.1 11.9 11.6 11.4 11.2 11.3	8.7 8.6 8.4 8.1 8.3 8.3	8.3 8.2 7.9 7.6 8.0 8.0	8.4 8.4 8.1 7.8 8.1 8.1
MONTH	14.3	7.1	10.1	15.5	12.5	13.9	15.2	10.7	12.1	13.6	7.6	10.2
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	8.3 8.3 8.6 9.4 10.0	7.7 7.9 7.8 8.4 8.9	8.0 8.1 8.2 8.9 9.6	 	 	 	 	 	 	13.5 14.4 13.9 12.9 12.3	9.6 9.2 8.9 8.2 9.3	11.6 11.7 11.5 9.9 10.5
6 7 8 9 10	8.9 9.4 10.0 10.2	8.3 8.1 9.1 9.4	8.6 8.7 9.5 9.7	 	 	 	 	 	 	12.3 13.0 11.9 10.3	10.1 10.2 9.0 9.3	11.1 11.3 10.2 9.7
11 12 13 14 15	 	 	 	 	 	 	 10.1	 8.7	 9.5	 	 	
16 17 18 19 20	 	 	 	 	 	 	10.7 11.4 10.0 10.0 10.0	8.6 10.0 9.4 9.8 9.9	9.6 10.8 9.8 9.9 10	 	 	
21 22 23 24 25	 	 	 	 	 	 	10.1 9.4 9.0 9.0 9.0	9.4 8.7 8.4 8.3 8.4	9.9 9.1 8.7 8.6 8.7	11.2 10.6 10.0 9.6	8.6 7.9 8.0 8.7	9.9 9.1 8.7 9.2
26 27 28 29 30 31	 	 	 	 	 	 	9.3 9.6 11.0 11.5 13.1	8.6 8.5 8.9 9.6 10.1	8.9 9.0 9.7 10.4 11.6	9.5 9.2 8.4 8.4 8.3 9.4	8.1 7.9 7.8 7.6 7.3 8.3	8.6 8.4 8.1 7.9 7.7 8.8
MONTH	10.2	7.7	8.8				13.1	8.3	9.6	14.4	7.3	9.7

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE		JULY				AUGUST	,	S	EPTEMBI	ER
1 2 3 4 5	9.1 8.2 8.5 8.5 8.2	8.2 7.3 7.7 7.7 7.4	8.5 7.6 8.1 8.0 7.7	6.2 5.8 6.4 6.3 6.3	4.2 4.2 4.4 4.7 5.3	4.6 4.7 4.8 5.4 5.8	7.6 7.9 7.5 7.7	6.0 6.2 6.2 5.9	6.8 6.9 6.8 6.7	7.0 7.7 7.4 6.7 6.2	6.1 6.3 6.7 5.8 5.2	6.5 7.0 7.1 6.2 5.9
6 7 8 9 10	7.6 7.9 8.1 8.2 8.0	7.1 7.4 7.9 7.6 7.1	7.3 7.6 8.0 7.9 7.4	6.4 6.3 6.8 7.3 7.6	5.5 5.5 5.5 5.7 5.9	5.7 5.8 5.9 6.5 6.6	8.0 8.1 8.4 8.0 9.0	6.1 6.0 5.9 6.5 6.9	7.0 6.9 7.1 7.3 7.8	6.2 5.7 5.4 4.6 4.8	5.4 4.9 3.1 3.2 3.3	5.8 5.4 4.7 4.0 4.1
11 12 13 14 15	8.1 7.8 7.2 7.1 6.9	7.4 6.9 6.6 6.5 6.0	7.8 7.2 6.9 6.8 6.3	7.1 7.0 7.0 6.4 6.8	5.8 5.9 5.6 5.6 6.3	6.3 6.3 6.0 6.0 6.6	9.3 9.2 9.6 9.6 9.2	6.7 7.0 7.2 6.7 6.8	7.9 7.9 8.2 8.1 8.0	4.8 5.6 5.8 5.6 6.0	3.8 4.4 4.5 4.0 5.2	4.3 5.0 5.3 4.9 5.6
16 17 18 19 20	7.0 7.0 7.8 8.4 8.5	5.7 5.1 5.1 6.7 7.0	6.3 6.2 5.9 7.3 7.5	7.0 7.1 7.3 7.2 6.6	6.7 6.7 7.0 6.6 6.2	6.8 6.9 7.2 6.9 6.4	8.8 9.0 8.5 8.0 5.1	6.4 5.8 6.1 5.0 3.5	7.6 7.5 7.4 5.8 4.4	6.0 6.1 	4.7 4.7 	5.5 5.5
21 22 23 24 25	8.4 8.5 8.3 7.1	6.8 6.7 6.5 5.7 5.2	7.2 7.2 6.9 6.8 6.0	6.9 7.4 7.6 7.8 7.6	6.5 6.8 7.0 7.0 6.8	6.7 7.1 7.2 7.3 7.1	5.6 6.3 6.4 6.2 5.6	4.2 4.4 4.2 4.4 4.3	4.9 5.2 5.5 5.2 4.8	 	 	
26 27 28 29 30 31	6.2 6.4 6.5 6.4 5.9	5.5 5.6 5.3 4.7 4.5	5.8 5.8 5.8 5.1 4.8	7.7 7.8 8.1 8.2 7.9 7.5	6.5 6.5 6.6 6.3 6.0	7.0 7.2 7.2 7.2 7.0 6.7	5.7 5.9 6.2 6.2 6.4 6.8	3.9 4.5 4.9 4.9 4.9 5.4	4.7 5.2 5.6 5.4 5.7 6.0	 	 	
MONTH YEAR	9.1 15.5	4.5 3.1	6.9 9.2	8.2	4.2	6.4	9.6	3.5	6.5	7.7	3.1	5.5

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R	E	DECEMBE	R		JANUARY	ſ
1 2 3 4 5	32 41 65 68 42	16 24 24 23 20	27 31 31 35 27	27 24 23 20 18	16 18 17 12 12	21 21 20 16 14	15 16 53 19 14	12 12 12 14 11	14 13 28 17 12	14 13 16 13 13	8.9 8.8 8.8 8.7 8.7	11 11 11 10 11
6 7 8 9 10	110 45 42 31 37	19 21 23 21 22	43 31 32 25 28	17 17 30 35 24	12 12 12 17 16	14 14 21 27 20	14 12 12 12 16	9.5 9.2 9.0 10 8.9	11 11 10 11 12	15 15 16 15 14	7.8 8.6 8.6 8.5 8.5	11 11 12 11 11
11 12 13 14 15	32 24 30 40 46	19 15 15 18 21	25 21 19 24 32	26 22 27 21 26	16 15 14 12 15	22 18 20 17 18	18 17 18 14 16	8.9 7.9 7.8 8.8 8.7	13 12 12 12 13	15 15 14 19 16	9.3 11 9.5 11 11	11 12 12 13 13
16 17 18 19 20	30 32 42 30 54	19 21 25 23 23	24 25 31 26 30	21 17 17 16 15	13 11 10 12 9.0	17 14 13 14 11	14 15 16 15 14	8.7 9.6 8.6 8.6 8.5	12 12 12 11 10	17 15 18 20 18	11 10 11 13 13	14 12 14 15 15
21 22 23 24 25	33 37 42 66 47	23 27 28 36 29	28 31 33 48 35	14 14 14 18 20	8.1 9.5 10 11 11	12 11 12 13 14	14 19 15 13 14	9.4 8.4 8.4 7.4 8.3	11 12 11 9.9 11	18 18 19 21 19	12 14 13 12 12	14 16 16 17 16
26 27 28 29 30 31	37 35 30 36 24 23	30 26 20 19 17 17	33 28 25 24 20 20	18 20 17 14 16	11 14 13 8.5 9.9	14 17 15 11 13	16 14 14 14 15 13	8.3 8.2 9.1 9.1 9.0 9.0	12 11 11 11 12 11	21 21 22 23 24 26	14 13 13 14 13 15	17 17 16 17 17 19
MONTH	110	15	29	35	8.1	16	53	7.4	12	26	7.8	14
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	21 20 26 21 27	15 15 14 16 14	18 18 18 18 18	 	 	e16 e16 e15 e15	 	 	e23 e23 e23 e23 e23	37 42 36 29 25	26 24 21 22 16	32 32 27 25 20
6 7 8 9 10	23 26 22 21	13 14 15 15	17 17 18 18 e17	 	 	e16 e15 e16 e15 e16	 	 	e23 e23 e23 e23 e24	28 64 58 76	19 28 34 35	23 47 45 49 e68
11 12 13 14 15	 	 	e17 e17 e17 e17 e17	 	 	e17 e18 e22 e24 e28	 290	 21	e25 e26 e33 e40 49	 	 	e64 e62 e63 e62 e63
16 17 18 19 20	 	 	e17 e18 e17 e17 e17	 	 	e38 e42 e46 e44 e44	240 710 230 190 190	32 67 140 100 71	57 380 190 120 110	 	 	e67 e67 e69 e67 e67
21 22 23 24 25	 	 	e17 e16 e17 e17 e17	 	 	e41 e42 e39 e37 e32	74 70 81 75 70	60 64 66 54 45	67 68 74 64 59	91 74 72 82	48 56 59 70	e68 68 64 67 77
26 27 28 29 30 31	 	 	e16 e15 e16 	 	 	e30 e26 e27 e26 e23 e23	64 56 49 38 31	41 36 28 27 25	52 45 40 33 29	99 78 72 69 83 62	64 55 57 52 50 46	81 67 63 60 65 54
MONTH	27	13	17			27	710	21	60	99	16	57

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE		JULY				AUGUST		S	EPTEMBE	ER
1 2 3 4 5	69 92 73 89 94	48 54 56 64 79	57 69 66 80 87	70 65 55 59 55	60 46 49 49 47	63 56 52 53 52	30 32 28 28	19 21 20 18	25 25 24 23 e27	25 27 21 23 22	13 14 14 14 11	17 17 17 18 15
6 7 8 9 10	100 91 90 94 93	80 74 77 76 72	91 84 83 84 83	59 59 62 110 260	48 47 48 54 92	53 54 55 73 170	29 28 26 32 53	19 18 19 18 18	25 23 22 23 27	15 14 13 13 29	9.0 8.0 7.0 8.0 10	11 10 10 11 16
11 12 13 14 15	78 87 89 79 78	64 65 59 59 60	69 72 75 70 70	98 86 65 73 58	66 61 48 46 47	75 72 58 54 52	29 28 26 24 21	16 17 16 15 14	23 22 21 19 18	13 16 21 58 18	9.0 10 10 10 12	12 12 15 17 16
16 17 18 19 20	93 340 290 59 56	64 63 59 41 43	79 120 120 49 48	75 64 69 61 56	46 45 45 44 43	60 54 54 51 49	19 20 19 16 21	14 12 12 12 12	17 16 15 15 17	35 98 	11 24 	15 37
21 22 23 24 25	60 86 71 1,300 1,300	44 42 44 56 230	48 58 61 390 710	51 50 44 42 49	42 37 33 30 25	46 43 38 35 32	20 24 22 23 23	13 12 13 12 11	16 17 17 16 16	 	 	
26 27 28 29 30 31	230 1,200 1,200 200 85	99 80 200 85 69	160 110 430 130 74	39 38 41 31 28 34	26 24 24 22 19 20	32 30 29 26 24 25	19 25 27 22 22 21	11 13 14 14 14 14 14	15 16 18 18 18 18 17	 	 	
MONTH YEAR	1,300 1,300	41 7.0	120 38	260	19	52	53	11	20	98	7.0	16

e Estimated

