



## GLACIAL RIDGE SURFACE-WATER WATER QUALITY—Continued

## MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO <sub>3</sub> (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
05078720 CO DITCH 140 ABV BR-6 IMP NR TILDEN JCT, MN (SW8) (LAT 47 40 01N LONG 096 20 18W)													
OCT 2004													
12...	4.62	12.5	305	372	11	6.81	70.3	1.2	1.2	<.04	<.06	<.008	<.02
30...	5.97	4.83	114	139	--	5.50	35.3	.58	.75	<.04	.25	<.008	.04
NOV													
30...	--	--	344	420	--	--	--	.81	.85	<.04	.34	<.008	<.02
MAR 2005													
29...	--	--	87	106	--	--	--	.75	1.1	.09	.27	.012	.04
JUL													
28...	--	--	368	449	--	--	--	1.2	1.2	<.04	E.05	<.008	<.02
05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1) (LAT 47 41 15N LONG 096 22 23W)													
OCT 2004													
13...	5.71	12.9	253	309	--	7.82	81.3	1.0	1.1	<.04	<.06	<.008	<.02
31...	5.21	7.34	202	246	--	5.73	47.9	.62	.73	<.04	.08	<.008	E.01
DEC													
01...	--	--	248	303	--	--	--	.77	.88	<.04	.15	<.008	<.02
MAR 2005													
29...	--	--	90	110	--	--	--	.80	1.1	.09	.21	.011	.04
JUL													
28...	--	--	297	362	--	--	--	1.2	1.3	<.04	<.06	<.008	<.02
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47 36 43N LONG 096 16 46W)													
OCT 2004													
11...	3.64	13.6	332	405	7	4.88	23.2	.59	.62	<.04	<.06	<.008	<.02
30...	4.06	3.73	118	144	--	3.16	13.5	.59	.99	<.04	E.05	<.008	<.02
NOV													
30...	--	--	290	354	--	--	--	.80	.83	.04	.11	<.008	<.02
30...	--	--	278	339	--	--	--	.82	.87	.05	.11	<.008	<.02
MAR 2005													
31...	--	--	119	146	--	--	--	.93	1.2	.16	.23	.012	.03
JUL													
27...	--	--	203	248	--	--	--	.88	1.0	E.02	<.06	<.008	<.02
05079200 COUNTY DITCH 72 (BURNHAM CK) NR. MAPLE BAY (SW3) (LAT 47 38 19N LONG 096 16 48W)													
OCT 2004													
12...	1.99	10.5	275	336	--	14.1	51.3	.60	.62	<.04	<.06	<.008	<.02
30...	4.43	2.77	123	150	--	5.78	19.2	.61	.72	<.04	E.05	<.008	E.01
NOV													
30...	--	--	317	387	--	--	--	.71	.73	<.04	.29	<.008	<.02
MAR 2005													
30...	--	--	100	122	--	--	--	.66	.90	.10	.12	E.006	E.01
JUL													
27...	--	--	253	309	--	--	--	.89	.94	E.04	<.06	<.008	E.02
27...	--	--	248	303	--	--	--	.91	.93	.05	<.06	<.008	E.02
05078520 CYR CREEK NEAR MARCOUX CORNERS, MN (SW5) (LAT 47 48 12N LONG 096 16 35W)													
OCT 2004													
13...	4.11	14.6	349	426	--	12.8	47.8	.83	.77	<.04	<.06	<.008	E.01
NOV													
01...	5.43	6.69	146	178	--	6.24	38.8	.72	.81	<.04	.13	E.004	<.02
DEC													
02...	--	--	409	499	--	--	--	.70	.78	.09	.92	.016	<.02
MAR 2005													
31...	--	--	95	116	--	--	--	.93	1.2	.08	.42	.019	.03
31...	--	--	--	--	--	--	--	<.10	<.10	<.04	<.06	<.008	<.02

## MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
05078720 CO DITCH 140 ABV BR-6 IMP NR TILDEN JCT, MN (SW8) (LAT 47 40 01N LONG 096 20 18W)		
OCT 2004		
12...	.013	.018
30...	.066	.123
NOV		
30...	.005	.010
MAR 2005		
29...	.074	.164
JUL		
28...	.013	.035
05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1) (LAT 47 41 15N LONG 096 22 23W)		
OCT 2004		
13...	.015	.035
31...	.030	.057
DEC		
01...	.009	.025
MAR 2005		
29...	.070	.139
JUL		
28...	.038	.061
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47 36 43N LONG 096 16 46W)		
OCT 2004		
11...	.006	.013
30...	.028	.120
NOV		
30...	.010	.016
30...	.008	.016
MAR 2005		
31...	.051	.096
JUL		
27...	.020	.046
05079200 COUNTY DITCH 72 (BURNHAM CK) NR. MAPLE BAY (SW3) (LAT 47 38 19N LONG 096 16 48W)		
OCT 2004		
12...	.007	.012
30...	.040	.064
NOV		
30...	.004	.008
MAR 2005		
30...	.024	.071
JUL		
27...	.043	.051
27...	.042	.052
05078520 CYR CREEK NEAR MARCOUX CORNERS, MN (SW5) (LAT 47 48 12N LONG 096 16 35W)		
OCT 2004		
13...	.026	.036
NOV		
01...	.023	.048
DEC		
02...	.020	.032
MAR 2005		
31...	.061	.106
31...	<.004	<.004

## GLACIAL RIDGE SURFACE-WATER WATER QUALITY—Continued

## MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, uS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)		
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47 44 16N LONG 096 12 08W)														
OCT 2004	12...	1130	Environmental	.39	731	9.7	8.0	8.2	562	647	11.3	85.6	37.2	
	31...	0830	Environmental	64	730	8.5	7.7	7.7	332	342	5.5	41.9	18.7	
DEC	01...	0825	Environmental	1.2	735	12.2	7.8	--	--	752	.0	--	--	
MAR 2005	30...	1240	Environmental	30	725	10.1	7.6	--	--	232	.1	--	--	
JUL	27...	1000	Environmental	1.1	736	8.5	7.9	--	--	470	15.6	--	--	
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47 46 54N LONG 096 19 52W)														
OCT 2004	13...	1420	Environmental	1.5	738	13.0	8.6	8.0	558	494	11.8	59.1	30.3	
	31...	1050	Environmental	--	734	10.4	8.0	7.7	386	400	4.7	41.4	21.9	
DEC	02...	0820	Environmental	2.4	736	14.1	7.9	--	--	580	.0	--	--	
MAR 2005	30...	1010	Environmental	67	726	12.1	7.8	--	--	302	.0	--	--	
JUL	27...	0750	Environmental	.66	738	8.8	7.8	--	--	596	15.1	--	--	
Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47 44 16N LONG 096 12 08W)														
OCT 2004	12...	3.34	9.74	313	382	--	7.22	36.6	.62	.63	<.04	.21	<.008	<.02
	31...	4.96	4.10	155	189	--	4.29	19.2	.64	.72	<.04	E.06	<.008	<.02
DEC	01...	--	--	359	438	--	--	--	.66	.64	<.04	.53	E.004	<.02
MAR 2005	30...	--	--	90	110	--	--	--	1.1	1.4	.31	.32	.014	.06
JUL	27...	--	--	196	239	--	--	--	.65	.69	<.04	<.06	<.008	<.02
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47 46 54N LONG 096 19 52W)														
OCT 2004	13...	4.18	7.66	184	224	8	7.44	70.6	.37	.40	<.04	.51	E.007	<.02
	31...	5.92	9.64	143	174	--	9.10	49.5	.82	1.1	<.04	.64	E.007	E.02
DEC	02...	--	--	215	262	--	--	--	.42	.41	.07	1.33	.013	<.02
MAR 2005	30...	--	--	97	118	--	--	--	.92	1.3	.13	1.06	.032	.03
JUL	27...	--	--	176	215	--	--	--	.47	.62	<.04	.11	E.006	<.02

## MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47 44 16N LONG 096 12 08W)		
OCT 2004		
12...	.008	.011
31...	.014	.034
DEC		
01...	.010	.013
MAR 2005		
30...	.095	.169
JUL		
27...	.017	.031
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47 46 54N LONG 096 19 52W)		
OCT 2004		
13...	.006	.015
31...	.043	.124
DEC		
02...	.006	.011
MAR 2005		
30...	.056	.169
JUL		
27...	.017	.050