

05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1)—Continued

## GLACIAL RIDGE HYDROLOGY

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2002 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd, uS/cm 25 degC (90095)	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)
DEC 09...	0830	Environmental	.16	742	9.6	7.8	7.9	771	778	-15.0
MAR 02...	1200	Environmental	.02	742	10.4	7.8	6.8	262	268	-.5
MAR 26...	1340	Environmental	11	743	10.8	8.6	7.6	129	129	3.0
APR 14...	1000	Environmental	3.2	740	11.9	8.1	7.6	463	527	6.0
MAY 13...	1020	Environmental	29	742	11.5	8.3	7.8	523	520	.5
MAY 25...	1220	Environmental	4.3	732	12.1	8.5	8.1	581	595	9.5
JUL 13...	1430	Environmental	.91	735	7.6	8.0	8.1	553	600	24.5
AUG 30...	1500	Environmental	1.1	739	11.8	8.3	8.1	497	541	21.0

  

Date	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltrd, inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltrd, incrm. titr., field, mg/L (00453)	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)
DEC 09...	.0	91.8	52.8	7.05	15.3	334	407	13.2	96.5	1.5	1.8
MAR 02...	.0	17.8	10.4	34.4	1.42	65	79	16.6	24.0	2.8	3.3
MAR 26...	.0	13.9	6.93	3.91	.28	48	58	.85	14.8	.75	.87
APR 14...	3.2	60.1	32.8	7.03	9.31	223	272	7.83	55.8	1.1	1.5
MAY 13...	4.9	52.4	31.4	5.04	11.4	161	197	7.71	101	.98	1.3
MAY 25...	10.4	65.5	38.5	5.91	12.9	214	261	8.97	93.8	.93	1.2
JUL 13...	24.8	53.1	37.2	5.01	11.6	221	270	8.47	78.5	1.0	1.1
AUG 30...	22.1	46.5	37.2	5.76	11.1	224	273	7.99	72.1	1.1	1.2

  

Date	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)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA, ug/L (62850)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	Acetochlor ESA, water, fltrd, 0.7u GF (61029)	Acetochlor OA, water, fltrd, 0.7u GF (61030)
DEC 09...	.15	.26	E.004	<.02	.016	.103	--	--	--	--	--
MAR 02...	E.02	.82	.033	1.03	1.27	1.30	--	--	--	--	--
MAR 26...	<.04	.07	.008	<.02	.026	.058	--	--	--	--	--
APR 14...	.06	<.06	<.008	<.02	.031	.095	--	--	--	--	--
MAY 13...	.09	.28	.029	E.01	.030	.098	--	--	--	--	--
MAY 25...	<.04	<.06	<.008	<.02	.013	.044	--	--	--	--	--
JUL 13...	E.02	<.06	<.008	<.02	.020	.046	<.02	.07	.10	.03	.04
AUG 30...	<.04	<.06	<.008	<.02	.023	.049	--	--	--	--	--

## 05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1)—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)	Ametryn water, fltrd, ug/L (38401)	Atra- zine, water, fltrd, ug/L (39632)	Cyana- zine amide, water, fltrd, ug/L (61709)	Cyana- zine, water, fltrd, ug/L (04041)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)
JUL 13...	.03	.02	<.02	<.02	<.02	<.02	<.02	<.05	.07	<.05	<.05	<.02
Date	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- enamid water, fltrd, ug/L (61588)	Flufen- acet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Flufe- nacet, water, fltrd, ug/L (62481)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Sus- pended sedi- ment concen- tration mg/L (80154)		
JUL 13...	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.05	140	
Date	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Propa- chlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propa- chlor OA, water, fltrd 0.7u GF ug/L (62767)	Propa- chlor, water, fltrd, ug/L (04024)	Propa- zine, water, fltrd, ug/L (38535)	Sima- zine, water, fltrd, ug/L (04035)	Ter- butryn, water, fltrd, ug/L (38888)	Deu- terium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)		
JUL 13...	<.05	<.05	<.05	<.02	<.02	<.05	<.05	<.05	-57.80	-6.98		