

Quality of Ground Water



Groundwater water-quality sampling southeastern Minnesota, 1995.

QUALITY OF GROUND WATER

MULTIPLE STATION ANALYSIS

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

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	PH WATER WHOLE LAB (STAND-ARD) (00403)	SPE-CIFIC CON-DUCT-ANCE LAB (90095)	SPE-CIFIC CON-DUCT-ANCE (00095)	TEMPER-ATURE AIR (DEG C) (00020)
ANOKA COUNTY											
451104093212801	06-20-01	0830	ENVIRONMENTAL	746	56	5.9	6.9	7.2	537	547	17.5
BELTRAMI COUNTY											
472533094284500	06-20-01	1550	ENVIRONMENTAL	734	0	.1	7.9	8.0	218	218	17.0
HENNEPIN COUNTY											
445651093222901	07-17-01	1400	ENVIRONMENTAL	735	4	.4	6.9	--	--	1080	34.0
450236093175801	10-04-00	1430	ENVIRONMENTAL	--	--	--	--	--	--	--	--
450326093175201	06-19-01	1400	ENVIRONMENTAL	745	8.2	.8	7.3	7.3	1600	1620	22.5
450430093220801	06-19-01	0940	ENVIRONMENTAL	743	36.6	3.9	7.4	7.4	1010	1020	16.0
450448093205301	06-19-01	1210	ENVIRONMENTAL	745	.8	.1	7.0	7.2	1520	1550	22.0

STATION NUMBER	DATE	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
ANOKA COUNTY												
451104093212801	06-20-01	12.1	61.4	22.3	.88	8.9	150	183	0	24.4	E.1	18.5
BELTRAMI COUNTY												
472533094284500	06-20-01	7.9	33.0	6.75	.21	2.2	108	132	0	1.2	E.1	18.4
HENNEPIN COUNTY												
445651093222901	07-17-01	13.0	--	--	--	--	--	--	--	--	--	--
450236093175801	10-04-00	--	--	--	--	--	--	--	--	--	--	--
450326093175201	06-19-01	12.6	125	31.4	4.86	131	281	343	0	274	E.1	19.3
450430093220801	06-19-01	11.3	83.4	19.0	1.50	85.0	291	355	0	128	<.2	29.4
450448093205301	06-19-01	11.8	117	35.4	4.21	130	320	390	0	250	.2	20.6

STATION NUMBER	DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
ANOKA COUNTY												
451104093212801	06-20-01	26.9	.27	<.040	14.2	<.006	.022	E.017	328	<1	.24	<2.0
BELTRAMI COUNTY												
472533094284500	06-20-01	5.2	<.10	<.040	<.050	<.006	.054	.056	142	<1	.05	<2.0
HENNEPIN COUNTY												
445651093222901	07-17-01	--	--	--	--	--	--	--	--	--	--	--
450236093175801	10-04-00	--	--	--	--	--	--	--	--	--	--	--
450326093175201	06-19-01	17.4	.33	.125	2.42	.010	<.006	<.020	934	<1	.35	<2.0
450430093220801	06-19-01	15.7	.12	<.040	2.51	<.006	.083	.071	594	1	.10	E1.5
450448093205301	06-19-01	54.3	.39	<.040	2.66	.024	E.004	<.020	883	<1	1.28	<2.0

MULTIPLE STATION ANALYSIS--Continued

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

STATION NUMBER	DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)
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ANOKA COUNTY

451104093212801	06-20-01	52.5	<.06	<.01	.24	<.8	.83	6.3	<10	<.08	.5	E.2
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BELTRAMI COUNTY

472533094284500	06-20-01	2.2	<.06	<.01	.06	<.8	.09	1.7	M	.23	14.9	<.2
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HENNEPIN COUNTY

445651093222901	07-17-01	--	--	--	--	--	--	--	--	--	--	--
450236093175801	10-04-00	--	--	--	--	--	--	--	--	--	--	--
450326093175201	06-19-01	113	<.06	.08	<.04	<.8	1.36	6.5	980	<.08	1350	.4
450430093220801	06-19-01	108	<.06	.07	<.04	E.5	.19	1.8	<10	<.08	.5	E.1
450448093205301	06-19-01	275	<.06	.04	.08	<.8	3.24	4.8	<10	E.05	1140	1.2

DEETHYL

STATION NUMBER	DATE	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ALA- CHLOR, DIS- WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	ACETONE WATER, WHOLE TOTAL (UG/L) (81552)
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ANOKA COUNTY

451104093212801	06-20-01	2.71	<2.0	<1.0	<1	<.002	<.007	<.018	<.006	<.005	<.011	<7
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BELTRAMI COUNTY

472533094284500	06-20-01	<.06	<2.0	<1.0	167	<.002	<.007	<.018	<.006	<.005	<.011	<7
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HENNEPIN COUNTY

445651093222901	07-17-01	--	--	--	--	--	--	--	--	--	--	--
450236093175801	10-04-00	--	--	--	--	--	--	--	--	--	--	--
450326093175201	06-19-01	.77	E1.5	<1.0	1	<.002	<.007	<.018	<.006	<.005	<.011	<7
450430093220801	06-19-01	.13	<2.0	<1.0	<1	<.002	.041	<.018	E.010	<.005	<.011	<7
450448093205301	06-19-01	16.6	E2.1	<1.0	3	<.002	<.007	<.018	<.006	<.005	<.011	<7

URANIUM

STATION NUMBER	DATE	BENZENE TOTAL (UG/L) (34030)	CHLORO- FORM TOTAL (UG/L) (32106)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	COUNTY	DATA BASE NUMBER
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ANOKA COUNTY

451104093212801	06-20-01	<.04	<.02	<.1	.99	003	01
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BELTRAMI COUNTY

472533094284500	06-20-01	<.04	<.02	<.1	.07	007	01
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HENNEPIN COUNTY

445651093222901	07-17-01	--	--	--	--	053	01
450236093175801	10-04-00	--	--	--	--	053	01
450326093175201	06-19-01	<.04	<.02	<.1	11.7	053	01
450430093220801	06-19-01	<.04	<.02	<.1	.29	053	01
450448093205301	06-19-01	<.04	<.02	<.1	3.27	053	01