MERCURY CYCLING in VOYAGEURS NATIONAL PARK

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
482951092531601 SHOEPACK LAKE NR INTERNATIONAL FALLS,MN (LAT 48 29 51N LONG 092 53 16W)												
MAY 2005												
12...	1330	Environmental	--	744	9.9	91	6.2	E6.7	31	26	--	11.7
12...	1335	Environmental	--	--	--	--	--	--	--	--	--	--
JUL												
14...	1040	Environmental	1.20	736	8.8	115	7.2	--	--	30	--	27.3
SEP												
15...	1115	Environmental	1.50	732	7.9	84	6.1	--	--	27	18.0	18.5
483129092462001 PEARY LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 29N LONG 092 46 20W)												
MAY 2005												
13...	1200	Environmental	2.00	732	10.4	95	6.8	7.0	28	27	--	11.1
JUL												
13...	1225	Environmental	2.10	735	7.2	97	7.3	--	--	29	--	28.7
SEP												
14...	1235	Environmental	2.50	733	8.2	89	6.9	--	--	29	14.0	19.2
14...	1245	Blank	--	--	--	--	--	--	--	--	--	--
483059092474501 BROWN LAKE NR INTERNATIONAL FALLS MN (LAT 48 30 59N LONG 092 47 45W)												
MAY 2005												
13...	1345	Environmental	2.40	--	10.1	732	6.6	6.8	25	23	--	10.9
JUL												
13...	1420	Environmental	2.40	734	7.2	97	7.1	--	--	25	--	29.0
SEP												
14...	1420	Environmental	2.00	732	8.5	92	6.9	--	--	27	15.0	19.1
483109092422601 RYAN LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 09N LONG 092 42 26W)												
MAY 2005												
13...	1030	Environmental	3.20	732	10.1	91	6.5	6.8	28	27	--	11.1
JUL												
13...	1040	Environmental	--	735	7.1	93	7.1	--	--	27	--	27.6
15...	1040	Environmental	--	--	--	--	--	--	--	--	--	--
SEP												
14...	1050	Environmental	1.50	732	8.3	90	6.5	--	--	31	13.5	19.2

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
482951092531601 SHOEPACK LAKE NR INTERNATIONAL FALLS,MN (LAT 48 29 51N LONG 092 53 16W)													
MAY 2005													
12...	2.40	1.04	.71	1.06	4	4	.0	.34	<.1	3.31	3.5	50	.52
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
483129092462001 PEARY LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 29N LONG 092 46 20W)													
MAY 2005													
13...	2.50	1.11	.64	1.07	8	10	.0	.23	<.1	2.17	1.6	27	.37
JUL													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
483059092474501 BROWN LAKE NR INTERNATIONAL FALLS MN (LAT 48 30 59N LONG 092 47 45W)													
MAY 2005													
13...	1.96	.877	.60	.98	6	7	.0	.22	<.1	2.98	1.7	36	.38
JUL													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
483109092422601 RYAN LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 09N LONG 092 42 26W)													
MAY 2005													
13...	2.46	.985	.48	1.01	4	5	.0	.24	<.1	3.58	3.3	43	.48
JUL													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

MERCURY CYCLING in VOYAGEURS NATIONAL PARK—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	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)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water unfltrd ng/L (50286)	Methyl-mercury water unfltrd ng/L (50284)
482951092531601 SHOEPACK LAKE NR INTERNATIONAL FALLS,MN (LAT 48 29 51N LONG 092 53 16W)												
MAY 2005												
12...	.66	<.04	.08	<.008	<.02	.008	.023	15.3	286	47.2	3.94	.24
12...	--	--	--	--	--	--	--	15.1	--	--	--	--
JUL												
14...	--	--	--	--	--	--	--	15.3	--	--	3.69	.20
SEP												
15...	--	--	--	--	--	--	--	--	--	--	2.24	.16
483129092462001 PEARY LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 29N LONG 092 46 20W)												
MAY 2005												
13...	.49	<.04	<.06	<.008	<.02	.006	.024	9.3	145	.7	2.01	.10
JUL												
13...	--	--	--	--	--	--	--	9.8	--	--	1.77	.07
SEP												
14...	--	--	--	--	--	--	--	--	--	--	1.09	<.04
14...	--	--	--	--	--	--	--	--	--	--	.14	<.04
483059092474501 BROWN LAKE NR INTERNATIONAL FALLS MN (LAT 48 30 59N LONG 092 47 45W)												
MAY 2005												
13...	.50	<.04	.07	<.008	<.02	.006	.011	9.6	173	13.8	2.56	.16
JUL												
13...	--	--	--	--	--	--	--	10.1	--	--	2.24	.17
SEP												
14...	--	--	--	--	--	--	--	--	--	--	2.04	.10
483109092422601 RYAN LAKE NR INTERNATIONAL FALLS MN (LAT 48 31 09N LONG 092 42 26W)												
MAY 2005												
13...	.57	.08	E.05	<.008	<.02	.006	.011	11.2	178	29.1	3.07	.19
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	12.0	--	--	2.35	.10
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	.15