

**Table 5. Field parameters for water sample sites and concentrations of major anions, mercury, and methylmercury in waters**

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<b>Field site</b>	<b>Sample</b>	<b>Date</b>	<b>pH</b>	<b>Temperature</b>	<b>Conductivity</b>	<b>Turbidity</b>	<b>Dissolved</b>	<b>Redox</b>	<b>Alkalinity</b>	<b>Total</b>
			<b>pH units</b>	<b>°C</b>	<b>µS</b>	<b>NTU</b>	<b>oxygen, mg/L</b>	<b>potential, mV</b>	<b>mg/L, as CaCO3</b>	<b>ng</b>
			<b>(in situ)</b>	<b>(in situ)</b>	<b>(in situ)</b>	<b>(in situ)</b>	<b>(percent)</b>		<b>Filtered</b>	<b>Unfilt</b>
<b>CC1</b>	21CC01	8/27/2001	8.18	35.3	129.4	—	—	—	64	2.9
<b>CC2</b>	21CC02	8/27/2001	6.93	31.9	206	—	—	—	73	7.7
	22CC02	6/5/2002	6.67	25.0	223	—	0.83 (10.1)	285	86	4.7
	23CC02	7/29/2003	7.27	29.2	270	—	6.51(83.7)	309	87	3.0
<b>CC3</b>	21CC03	8/28/2001	6.62	24.0	145.5	—	—	—	67	3.5
<b>CC7</b>	21CC07	8/28/2001	6.65	23.8	220	—	—	—	83	9.9
<b>CC10</b>	21CC10	8/28/2001	6.92	20.3	1320	—	—	—	97	50
	22CC10	6/5/2002	6.76	16.9	2180	—	5.79 (61.3)	363	78	9.7
	23CC10	1/29/2003	7.51	11.0	261	—	9.51 (92.0)	349	41.8	12
<b>CC11</b>	21CC11	8/28/2001	7.27	21.2	104.3	—	—	—	39	3.7
	22CC11	6/5/2002	7.50	16.9	79	—	9.60 (100.0)	329	32	1.2
	23ACC11	1/27/2003	7.77	10.1	78.8	2.2	—	—	28.0	2.8
	23BCC11	1/28/2003	7.39	9.4	68.0	22	12.26 (107.2)	—	27.9	11
	23CCC11	7/29/2003	7.77	20.9	85	—	8.70(96.5)	367	35.9	1.8
<b>CC12</b>	21CC12	8/29/2001	5.57	24.7	36300	—	—	—	*	10
	22CC12	6/4/2002	4.67	24.8	10420	—	4.69 (59.6)	452	**	21
	23CC12	7/28/2003	5.12	27.8	13935	—	6.12(81.6)	463	0	17
<b>CC18</b>	21CC18	8/29/2001	7.33	18.3	69.2	—	—	—	40	1.5
	22CC18	6/5/2002	7.61	15.3	73	—	9.50 (98.0)	330	32	1.6
	23ACC18	1/27/2003	7.73	9.7	66.8	2.2	—	—	28.4	2.4
	23B1CC18	1/27/2003	7.51	9.4	65.1	29.2	—	—	27.1	8.1
	23B2CC18	1/28/2003	7.32	9.0	63.0	8.6	12.08 (104.0)	—	28.8	2.8
	23CCC18	7/29/2003	7.52	13.6	77	—	9.12(89.3)	386	35.9	0.9
<b>CC27</b>	22CC27	6/4/2002	7.36	34.4	75640	—	4.75 63.4)	296	14	13.5
	23CC27	7/28/2003	6.52	40.1	109040	—	0.79(18.5)	228	28.3	49
<b>CC28</b>	22CC28	6/4/2002	8.62	18.1	70000	—	0.50 (7.1)	18	57	2.6
<b>CC29</b>	22CC29	6/4/2002	8.00	15.2	75	—	9.4 (95.0)	329	32	1.2

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<b>Methyl Hg</b>	<b>Chloride (Cl)</b>	<b>Fluoride (F)</b>	<b>Sulfate (SO4)</b>	<b>Nitrate (NO3)</b>	<b>Total organic carbon (TOC), mg/L</b>
<b>ng/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
<b>Filtered</b>	<b>Filtered</b>	<b>Filtered</b>	<b>Filtered</b>	<b>Filtered</b>	<b>Unfiltered</b>
0.033	1.7	0.09	1.8	<0.08	—
0.107	13	1.1	13	<0.08	—
1.50	14	0.2	2.2	<.08	2.7
0.333	22	0.1	4.2	<.08	3.1
0.039	5.1	0.2	<1.6	<0.08	—
2.280	8.8	0.2	3.5	<0.08	—
0.042	260	0.7	24	0.9	—
—	630	<.4	31	3.7	1.8
—	38	0.09	15	<.08	—
0.038	4.3	0.1	1.9	<0.08	—
—	3.2	0.1	3.4	<.08	2.6
—	4.4	<.08	3.3	<.08	—
—	2.2	<.08	3.2	0.1	—
—	3.2	<.08	2.2	<.08	1.1
0.902	13000	<0.08	2.8	<0.08	—
0.159	3600	<2.0	<40	<2.0	3.1
0.102	4900	<2.0	<40	11	5.1
0.018	5.1	0.2	<1.6	<0.08	—
—	1.2	<.08	3.3	<.08	3.1
—	2.2	<.08	3.6	0.1	—
—	1.6	<.08	3.3	0.1	—
—	1.4	<.08	3.1	0.1	—
—	1.5	<.08	2.1	<.08	1.7
—	32000	<10	<200	<10	2.7
—	45000	<20	<400	<45	16
—	29000	<10	<200	<10	—
—	2.5	<.08	3.5	<.08	1.3

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	23ACC29	1/27/2003	7.92	9.9	70.3	2.1	—	—	28.5	2.9
	23BCC29	1/28/2003	7.29	9.2	66.0	8.2	11.87 (103.3)	—	28.1	2.9
	23CCC29	7/28/2003	8.42	17.7	78	—	10.45(108.7)	314	35.6	0.6
<b>CC30</b>	22CC30	6/5/2002	7.56	17.1	83	—	9.7 (102.2)	335	33	1.6
	23ACC30	1/27/2003	7.65	10.5	85.9	3.6	—	—	29.7	3.0
	23BCC30	1/28/2003	7.33	9.8	70.2	35.4	11.91 (105.0)	—	28.3	9.3
	23CCC30	7/29/2003	7.95	22.5	91	—	7.90(88.2)	356	37.0	1.1
<b>CC31</b>	23CC31	1/29/2003	7.42	11.8	253		9.11 (89.9)	363	42.3	14
<b>CC32</b>	23CC32	1/29/2003	7.42	10.5	157	1.8	5.88 (56.8)	351	45.5	27
<b>CC33</b>	23CC33	1/29/2003	7.08	12.3	179	0.9	7.61 (75.6)	364	63.2	4.5
<b>CC34</b>	23CC34	1/29/2003	6.31	11.7	116	2.1	5.07 (50.0)	373	13.3	11
<b>CC35</b>	23CC35	7/28/2003	6.30	24.8	14720	—	3.04(37.3)	246	18.6	40
<b>CC36</b>	23CC36	7/28/2003	8.04	24.1	82	—	7.90(93.5)	327	35.2	1.6
*Not determined; pH of subsample measured in laboratory was 4.17										
**Not determined; pH of subsample measured in laboratory was 4.30										
***Value is an estimate based on a reported value of 2.87 ng/L adjusted for a low average matrix spike recovery of 21.2%.										

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—	2.3	<.08	3.4	0.1	—
—	1.7	<.08	3.1	0.1	—
—	2.4	<.08	2.1	<.08	1.1
—	3.8	<.08	3.5	<.08	1.7
—	5.1	<.08	5	<.08	—
—	2.8	<.08	3.7	0.1	—
—	3.7	<.08	2.3	<.08	1
—	36	0.1	15	<.08	—
—	5.9	0.09	13	<.08	—
—	1.9	0.1	19	0.3	—
—	6.3	<.08	17	0.4	—
1.49	4800	<2.0	<40	11	6.3
—	3.5	<.08	2.2	<.08	1.1

Table 5-4