

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
22-Sep-99	3:45 PM	46.4	Slack Low	6.67	23.8	0.1	6.51	23.7	0.1	5.2
22-Sep-99	4:00 PM	47.5	Slack Low	6.70	23.7	0.1	6.82	23.7	0.1	5.5
23-Sep-99	9:15 AM	48.5	Slack High	6.58	22.8	0.1	6.54	22.7	0.1	4.6
23-Sep-99	9:27 AM	48.9	Slack High	6.60	22.9	0.1	6.60	22.8	0.1	5.5
24-Sep-99	9:00 AM	38.6	Slack High	5.34	23.1	3.5	5.01	23.2	5.1	7.9
24-Sep-99	9:10 AM	39.4	Slack High	5.94	22.9	1.8	5.70	22.9	2.8	8.5
24-Sep-99	9:19 AM	39.8	Slack High	6.21	22.8	0.8	6.33	22.7	0.9	6.7
24-Sep-99	9:58 AM	48.3	Slack High	6.82	22.6	0.1	6.89	22.6	0.1	7.9
24-Sep-99	10:05 AM	48.5	Slack High	6.76	22.7	0.1	6.87	22.6	0.1	7.9
24-Sep-99	4:23 PM	41.2	Slack Low	6.79	22.7	0.1	6.82	22.7	0.1	7.9
24-Sep-99	4:52 PM	48.5	Slack Low	6.81	22.5	0.1	6.86	22.5	0.1	7.6
24-Sep-99	4:52 PM	48.5	Slack Low	6.81	22.5	0.1	6.86	22.5	0.1	7.6
25-Sep-99	9:35 AM	39.6	Slack High	6.13	22.4	0.8	6.09	22.4	0.9	8.8
25-Sep-99	9:47 AM	42.2	Slack High	6.40	22.3	0.2	6.43	22.3	0.2	8.8
25-Sep-99	10:32 AM	48.5	Slack High	7.00	22.3	0.1	7.02	22.2	0.1	6.7
25-Sep-99	10:40 AM	48.6	Slack High	7.06	22.2	0.1	7.09	22.3	0.1	7.0
29-Sep-99	8:03 AM	39.4	Slack Low	6.43	23.3	0.1	6.47	23.2	0.1	6.7
29-Sep-99	8:46 AM	46.2	Slack Low	6.69	23.3	0.1	6.69	23.3	0.1	6.1
29-Sep-99	8:51 AM	48.0	Slack Low	6.93	23.4	0.1	7.03	23.4	0.1	5.2
29-Sep-99	1:28 PM	39.8	Slack High	5.96	23.8	0.4	5.84	23.9	0.5	8.5
29-Sep-99	1:55 PM	46.5	Slack High	6.41	24.1	0.1	6.25	23.6	0.1	8.2
29-Sep-99	2:05 PM	48.0	Slack High	6.26	24.5	0.1	6.28	23.7	0.1	5.5
01-Oct-99	8:41 AM	27.7	Late Ebb	7.23	23.8	0.7	5.80	24.2	4.0	10.7
01-Oct-99	9:08 AM	31.4	Late Ebb	7.38	23.2	0.1	6.73	22.9	0.2	10.1
01-Oct-99	9:56 AM	39.6	Late Ebb	7.97	23.3	0.1	7.32	23.2	0.1	6.7
01-Oct-99	10:36 AM	46.5	Late Ebb	8.23	23.3	0.1	7.79	23.3	0.1	2.1
01-Oct-99	10:40 AM	47.3	Late Ebb	8.30	23.3	0.1	7.80	23.3	0.1	5.5
14-Oct-99	8:18 AM	27.5	Slack Low	7.28	23.5	1.9	5.18	24.1	13.3	14.6
14-Oct-99	9:27 AM	39.6	Early Flood	8.23	23.1	0.1	8.21	23.0	0.1	9.1
14-Oct-99	10:10 AM	46.5	Early Flood	7.96	23.1	0.1	7.87	23.0	0.1	5.2
14-Oct-99	10:18 AM	48.6	Early Flood	8.33	23.2	0.1	8.07	23.1	0.1	3.7
15-Oct-99	12:30 PM	27.5	Slack High	10.52	23.9	4.4	8.44	24.3	19.1	15.2
15-Oct-99	1:35 PM	39.9	Slack High	11.95	23.3	0.3	11.70	23.3	0.6	10.7
15-Oct-99	2:08 PM	47.3	Slack High	6.98	23.2	0.1	6.62	23.1	0.1	6.7

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
15-Oct-99	2:10 PM	46.5	Slack High	7.05	23.2	0.1	6.67	23.1	0.1	10.4
19-Oct-99	4:35 PM	27.5	Slack High	6.91	23.4	10.4	6.25	23.3	23.2	15.5
19-Oct-99	5:18 PM	39.9	Early Ebb	8.00	22.8	0.8	7.02	22.8	6.5	10.4
19-Oct-99	5:46 PM	47.2	Early Ebb	8.22	22.3	0.1	8.05	22.2	0.1	7.0
01-Nov-99	1:10 PM	30.1	Late Flood	7.48	19.7	3.1	6.52	19.6	9.9	15.2
01-Nov-99	1:55 PM	26.6	Late Flood	6.78	19.7	6.2	6.34	19.6	13.1	15.9
17-Nov-99	9:35 AM	34.6	Late Ebb	ND	ND	ND	7.60	16.5	0.8	6.1
18-Nov-99	11:50 AM	29.1	Ebbing	7.42	16.9	2.6	5.88	18.0	11.7	14.3
18-Nov-99	4:15 PM	29.5	Slack high	5.97	17.2	4.6	5.27	18.3	17.2	14.3
18-Nov-99	4:15 PM	3.7 MR	Late flood	7.63	17.5	6.5	7.48	17.6	7.0	3.7
19-Nov-99	8:06 AM	28.7	Ebbing	6.38	17.4	7.6	5.55	17.9	14.5	14.6
19-Nov-99	8:27 AM	2.4 MR	Mid ebb	6.93	16.5	3.9	6.95	16.4	3.9	4.0
22-Nov-99	2:20 PM	30.1	Mid ebb	7.00	17.1	3.3	6.35	17.3	6.3	11.9
22-Nov-99	2:36 PM	2.4 MR	Mid ebb	6.94	17.2	2.1	6.99	17.2	2.1	2.4
23-Nov-99	9:28 AM	29.6	Slack high	6.60	17.4	5.4	5.83	17.6	11.9	16.8
23-Nov-99	9:39 AM	2.4 MR	Slack high	6.48	17.5	6.5	6.03	17.5	8.9	5.5
01-Dec-99	4:45 PM	30.8	Early Ebb	7.69	16.0	2.5	6.05	17.6	13.4	15.9
01-Dec-99	5:42 PM	32.2	Early Ebb	7.07	16.9	5.2	5.91	17.4	10.9	13.4
02-Dec-99	9:45 AM	30.8	Late Ebb	7.05	15.8	5.0	6.10	17.1	12.0	14.3
02-Dec-99	10:07 AM	32.2	Late Ebb	7.99	15.0	1.8	8.24	14.9	1.8	12.2
02-Dec-99	10:50 AM	32.2	Late Ebb	8.40	15.2	0.3	6.35	16.6	6.4	13.1
03-Dec-99	10:40 AM	29.8	Late Ebb	7.06	15.3	5.3	6.28	16.5	14.3	14.3
03-Dec-99	11:23 AM	31.2	Late Ebb	7.76	14.3	2.7	7.80	14.9	3.5	13.1
03-Dec-99	11:35 AM	31.7	Late Ebb	8.31	14.1	1.2	8.32	14.3	1.5	7.6
07-Dec-99	3:30 PM	31.6	Slack Low	9.40	14.1	0.4	9.25	14.1	1.3	12.8
07-Dec-99	3:58 PM	29.3	Slack Low	8.82	14.1	1.8	7.14	14.9	7.7	14.0
07-Dec-99	4:18 PM	1.0 MR	Slack Low	9.21	13.8	0.7	9.15	13.8	1.1	6.1
09-Dec-99	9:15 AM	27.5	Ebbing	7.60	14.5	5.5	6.80	15.0	13.4	15.9
09-Dec-99	9:34 AM	1.3 MR	Ebbing	8.04	14.2	3.0	6.24	14.9	10.2	7.3
09-Dec-99	9:44 AM	1.6 MR	Ebbing	8.01	14.2	2.9	6.22	14.9	9.8	7.9
10-Dec-99	8:53 AM	29.0	Flood	7.18	14.7	4.9	6.72	14.9	12.1	15.5
10-Dec-99	9:01 AM	1.6 MR	Flood	7.79	14.5	2.7	5.84	14.9	8.2	3.4
10-Dec-99	9:19 AM	1.4 MR	Flood	7.49	14.5	3.6	5.53	14.9	8.6	7.6
15-Dec-99	11:46 AM	0.8 MR	Mid-flood	8.10	15.5	3.0	6.79	15.5	11.0	7.9

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
15-Dec-99	11:54 AM	1.1 MR	Mid-flood	8.11	15.6	3.1	6.41	15.5	12.4	7.6
15-Dec-99	12:06 PM	1.0 MR	Mid-flood	7.98	15.5	3.6	6.54	15.6	12.4	7.9
14-Dec-99	1:14 PM	0.6 MR	Slack high	8.79	15.8	2.2	6.73	15.6	11.0	8.2
14-Dec-99	1:21 PM	1.1 MR	Slack high	8.56	15.7	2.8	6.65	15.5	11.1	7.6
14-Dec-99	1:38 PM	1.0 MR	Slack high	8.62	15.7	2.4	6.63	15.5	11.2	8.5
16-Dec-99	9:45 AM	0.5 MR	Late ebb	8.08	14.6	1.2	7.62	14.8	3.0	4.6
16-Dec-99	9:55 AM	0.8 MR	Late ebb	8.02	14.5	1.3	7.31	15.0	5.2	6.4
16-Dec-99	9:55 AM	0.8 MR	Late ebb	8.02	14.5	1.3	7.31	15.0	5.2	6.4
17-Dec-99	9:53 AM	0.6 MR	Late ebb	7.76	13.6	2.3	7.72	13.8	2.9	6.1
17-Dec-99	10:04 AM	1.0 MR	Late ebb	7.82	13.4	2.2	7.62	13.7	3.1	6.1
17-Dec-99	1:45 PM	1.0 MR	Late ebb	7.73	14.8	5.4	6.21	15.5	5.6	7.9
20-Dec-99	12:22 PM	0.3 MR	Ebb	8.10	13.7	2.3	8.10	13.8	2.3	11.3
20-Dec-99	12:34 PM	0.3 MR	Ebb	8.00	13.7	2.4	7.98	13.8	2.5	4.9
20-Dec-99	12:45 PM	0.5 MR	Ebb	8.20	13.7	2.0	7.98	13.9	2.5	5.8
20-Dec-99	12:54 PM	0.6 MR	Ebb	8.03	13.8	2.1	7.95	13.9	2.6	5.8
20-Dec-99	1:05 PM	0.5 MR	Ebb	8.17	13.7	1.7	8.01	13.9	2.4	5.8
20-Dec-99	1:14 PM	0.6 MR	Ebb	8.13	13.8	1.8	7.91	14.0	2.6	6.1
20-Dec-99	1:43 PM	31.4	Ebb	8.71	13.4	0.6	8.26	13.8	1.8	13.1
05-Jan-00	2:18 PM	0.5 MR	Late ebb	9.04	13.2	0.8	9.14	13.0	1.3	4.9
05-Jan-00	2:18 PM	0.5 MR	Late ebb	9.04	13.2	0.8	9.14	13.0	1.3	4.9
05-Jan-00	2:36 PM	0.6 MR	Late ebb	9.01	13.1	1.1	9.06	13.0	1.5	6.1
05-Jan-00	3:08 PM	32.5	Late ebb	9.07	13.3	0.1	9.10	13.2	0.2	10.4
05-Jan-00	3:10 PM	32.7	Late ebb	9.09	13.3	0.1	9.14	13.3	0.1	10.7
07-Jan-00	11:30 AM	0.5 MR	Ebb	8.50	12.8	5.4	8.39	12.8	6.3	6.7
07-Jan-00	11:38 AM	0.6 MR	Ebb	8.48	12.9	4.5	8.20	12.9	7.2	7.9
07-Jan-00	11:51 AM	0.5 MR	Ebb	8.44	12.9	4.6	8.38	12.9	5.7	6.4
07-Jan-00	12:03 PM	33.0	Ebb	8.36	12.9	5.6	8.32	12.9	6.1	11.9
07-Jan-00	12:10 PM	33.5	Ebb	8.27	12.9	5.7	8.35	12.9	5.9	4.0
12-Jan-00	1:15 PM	33.5	High slack	8.41	14.2	3.4	7.83	13.7	8.1	7.6
12-Jan-00	1:36 PM	0.5 MR	High slack	8.73	14.7	2.6	7.90	13.9	8.0	6.4
12-Jan-00	1:42 PM	0.5 MR	High slack	8.56	14.1	3.0	7.79	13.7	8.2	7.6
12-Jan-00	1:50 PM	0.6 MR	High slack	8.58	14.5	3.0	7.89	13.7	7.7	9.1
14-Jan-00	8:40 AM	33.8	Late ebb	10.19	12.8	0.1	9.71	13.0	0.7	10.7
14-Jan-00	9:03 AM	31.4	Late ebb	10.31	12.9	0.7	9.73	13.2	4.7	9.8

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
14-Jan-00	9:10 AM	0.3 MR	Late ebb	10.42	12.5	1.0	10.32	12.4	1.3	5.5
14-Jan-00	9:16 AM	0.6 MR	Late ebb	10.35	12.5	1.0	10.25	12.4	1.4	4.0
18-Jan-00	1:31 PM	0.8 MR	Late ebb	10.51	12.1	1.4	10.44	12.1	2.0	5.5
18-Jan-00	1:36 PM	1.0 MR	Late ebb	10.51	12.1	1.4	10.44	12.1	2.0	5.2
19-Jan-00	4:00 PM	0.6 MR	Early flood	8.63	11.9	0.8	8.10	12.2	3.5	7.0
19-Jan-00	4:15 PM	0.8 MR	Early flood	8.60	11.9	1.1	8.08	12.1	3.5	8.5
19-Jan-00	4:52 PM	33.2	Early flood	8.28	12.3	2.2	7.96	12.2	3.7	12.5
19-Jan-00	5:02 PM	33.8	Early flood	8.47	12.3	1.7	7.91	12.2	3.8	12.5
21-Jan-00	9:43 AM	32.4	Slack high	8.12	11.7	3.4	7.88	12.0	5.8	12.2
21-Jan-00	10:07 AM	31.2	Slack high	8.19	11.7	4.3	7.88	12.0	8.4	15.2
21-Jan-00	11:48 AM	0.5 MR	Slack high	8.27	11.6	3.3	8.42	11.5	3.4	7.0
21-Jan-00	11:59 AM	0.3 MR	Slack high	8.56	11.2	3.2	8.12	11.4	3.4	6.1
26-Jan-00	7:42 AM	34.1	Late ebb	9.84	8.2	0.1	9.82	8.2	0.1	1.5
26-Jan-00	7:54 AM	34.0	Late ebb	9.86	8.4	0.1	9.86	8.3	0.1	10.7
26-Jan-00	8:10 AM	31.7	Late ebb	9.75	8.9	0.1	9.74	8.3	0.1	11.6
26-Jan-00	8:24 AM	1.0 MR	Late ebb	9.68	7.9	0.3	9.57	7.9	0.4	6.4
02-Feb-00	7:15 AM	34.1	High slack	10.14	6.3	3.0	8.83	7.6	16.9	13.4
02-Feb-00	7:31 AM	31.4	High slack	10.17	6.3	2.7	8.73	7.6	18.7	14.9
02-Feb-00	7:40 AM	0.6 MR	High slack	10.22	6.0	2.0	8.75	7.5	17.6	8.5
02-Feb-00	1:15 PM	31.2	Low slack	10.34	6.3	0.3	9.14	7.5	18.3	13.1
02-Feb-00	1:35 PM	31.2	Low slack	10.52	6.3	0.4	9.54	7.5	11.5	12.2
02-Feb-00	1:50 PM	0.5 MR	Low slack	10.54	6.8	0.6	10.63	6.7	0.7	4.0
09-Feb-00	10:07 AM	31.2	Late Flood	9.68	8.5	2.2	9.28	8.4	5.2	14.0
09-Feb-00	10:18 AM	29.9	Late Flood	9.85	8.5	0.9	9.51	8.4	4.1	16.8
09-Feb-00	10:36 AM	0.5 MR	Late Flood	9.74	8.5	1.7	9.45	8.4	4.4	9.5
11-Feb-00	7:52 AM	31.4	Slack low	9.70	9.7	0.1	9.52	9.5	3.3	10.1
11-Feb-00	8:01 AM	0.6 MR	Slack low	9.63	9.6	0.3	9.55	9.6	0.7	6.4
11-Feb-00	8:18 AM	29.9	Slack low	9.65	9.6	0.3	9.22	9.3	5.1	16.2
16-Feb-00	7:09 AM	34.8	Slack high	8.25	12.5	3.8	8.03	12.4	5.3	4.9
16-Feb-00	7:16 AM	34.3	Slack high	8.23	12.6	4.0	7.91	12.2	6.4	13.1
16-Feb-00	7:33 AM	31.7	Slack high	8.23	12.5	4.0	8.01	12.0	7.9	11.9
16-Feb-00	7:43 AM	31.2	Slack high	8.31	12.4	3.5	8.01	12.0	8.5	11.6
24-Feb-00	7:08 AM	34.3	Slack low	8.73	13.4	0.1	8.75	13.4	0.1	10.4
24-Feb-00	7:17 AM	33.8	Slack low	8.71	13.4	0.1	8.74	13.4	0.1	10.4

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Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
24-Feb-00	7:32 AM	1.0 MR	Slack low	8.32	13.8	0.2	8.36	13.7	0.2	6.1
24-Feb-00	7:36 AM	1.0 MR	Slack low	8.31	13.8	0.2	8.30	13.8	0.3	7.3
01-Mar-00	11:02 AM	35.1	Late ebb	8.56	15.5	0.6	8.59	15.6	0.6	8.8
01-Mar-00	11:28 AM	1.0 MR	Late ebb	8.18	15.8	1.9	8.26	15.8	1.8	1.8
01-Mar-00	11:40 AM	3.1 MR	Late ebb	8.45	15.8	1.3	8.47	15.7	1.3	2.1
01-Mar-00	12:36 PM	35.6	Late ebb	8.70	15.6	0.1	8.83	15.7	0.1	4.0
08-Mar-00	10:00 AM	34.8	Slack high	8.14	16.9	3.1	8.01	16.9	4.3	9.8
08-Mar-00	10:16 AM	32.8	Slack high	8.40	16.8	3.0	8.23	16.8	5.6	8.5
08-Mar-00	10:33 AM	0.6 MR	Slack high	8.66	16.9	2.5	8.78	16.8	5.7	8.5
14-Mar-00	9:50 AM	34.8	Late ebb	8.41	16.6	0.2	8.06	16.7	0.2	6.4
14-Mar-00	10:02 AM	34.0	Late ebb	8.79	16.8	0.1	8.60	16.8	0.2	8.2
14-Mar-00	10:11 AM	31.7	Late ebb	8.59	19.8	0.2	8.20	16.8	0.3	11.3
14-Mar-00	10:30 AM	29.8	Late ebb	7.83	17.3	1.1	8.35	17.7	8.8	14.6
21-Mar-00	4:34 PM	0.8 MR	Late ebb	8.02	18.6	0.2	8.16	18.6	0.2	6.4
21-Mar-00	4:56 PM	34.3	Late ebb	8.22	17.2	0.1	8.28	17.2	0.1	10.4
21-Mar-00	5:24 PM	34.8	Late ebb	8.28	17.2	0.1	8.33	17.3	0.1	5.5
29-Mar-00	10:52 AM	34.9	Late ebb	7.94	18.7	0.1	8.01	18.7	0.3	3.7
29-Mar-00	11:08 AM	34.1	Late ebb	7.77	18.6	0.2	6.62	17.5	21.2	10.7
29-Mar-00	11:28 AM	0.6 MR	Late ebb	7.97	18.8	0.8	7.83	18.0	2.0	4.0
29-Mar-00	11:36 AM	1.4 MR	Late ebb	7.80	18.2	0.5	7.74	17.9	1.3	2.7
29-Mar-00	12:41 PM	36.7	Late ebb	7.84	18.7	0.1	7.86	18.8	0.1	11.0
30-Mar-00	11:41 AM	4.0 MR	Late ebb	7.36	18.7	0.1	7.04	18.9	3.0	3.0
30-Mar-00	12:02 PM	3.1 MR	Late ebb	7.02	19.0	0.8	7.05	18.9	1.7	1.5
30-Mar-00	1:12 PM	33.8	Late ebb	7.24	18.7	0.2	6.12	18.1	16.7	11.0
30-Mar-00	1:28 PM	34.9	Late ebb	7.28	18.8	0.1	7.04	18.7	1.6	6.4
30-Mar-00	1:41 PM	36.9	Late ebb	7.35	18.9	0.1	7.35	18.7	0.1	11.6
05-Apr-00	10:50 AM	34.0	Late flood	6.77	19.1	3.1	6.32	19.1	5.0	13.1
05-Apr-00	11:03 AM	33.6	Late flood	6.64	19.2	3.1	6.27	19.2	5.5	12.8
05-Apr-00	11:19 AM	34.0	Late flood	6.77	19.5	3.1	6.28	19.2	5.3	12.2
05-Apr-00	11:30 AM	1.0 MR	Late flood	7.12	19.1	2.2	6.34	19.2	4.8	4.6
07-Apr-00	10:15 AM	33.8	Late flood	7.66	18.8	1.5	7.31	18.9	3.3	8.2
07-Apr-00	10:30 AM	33.8	Late flood	6.77	18.9	2.3	6.64	18.9	3.7	12.2
07-Apr-00	10:45 AM	33.5	Late flood	6.57	19.0	2.4	6.56	19.0	3.9	12.8
07-Apr-00	11:01 AM	1.0 MR	Late flood	7.19	19.1	1.7	6.64	19.0	4.6	4.9

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
11-Apr-00	3:36 PM	34.0	Late ebb	8.14	19.1	2.6	7.13	18.6	6.5	12.8
11-Apr-00	3:36 PM	34.0	Late ebb	8.14	19.1	2.6	7.13	18.6	6.5	12.8
11-Apr-00	3:46 PM	33.8	Late ebb	8.15	19.0	2.5	7.15	18.6	6.7	12.5
11-Apr-00	4:27 PM	2.4 MR	Late ebb	8.06	18.8	2.8	7.85	18.6	3.2	4.0
14-Apr-00	1:35 PM	34.0	Slack low	7.65	17.9	0.1	7.64	17.8	0.2	11.0
14-Apr-00	1:40 PM	34.0	Slack low	7.61	17.9	0.1	7.66	17.8	0.2	10.4
14-Apr-00	1:55 PM	31.6	Slack low	7.67	18.4	0.3	7.50	18.0	1.8	9.8
14-Apr-00	2:00 PM	31.6	Slack low	7.65	18.6	0.2	7.09	18.3	5.9	12.2
14-Apr-00	2:12 PM	2.1 MR	Slack low	7.63	17.2	0.5	7.48	17.2	1.1	2.1
14-Apr-00	2:35 PM	39.4	Slack low	7.67	17.9	0.1	7.64	17.8	0.1	8.5
19-Apr-00	10:18 AM	34.6	Slack high	7.75	19.6	3.0	7.51	19.4	4.1	12.8
19-Apr-00	10:24 AM	34.5	Slack high	7.76	19.8	3.0	7.65	19.3	4.3	12.5
19-Apr-00	10:30 AM	34.5	Slack high	7.79	19.7	3.0	7.55	19.3	4.4	13.1
19-Apr-00	10:45 AM	31.6	Slack high	7.84	19.6	3.3	7.45	19.3	5.9	11.6
19-Apr-00	10:48 AM	31.6	Slack high	7.84	19.6	3.3	7.45	19.3	5.9	11.6
19-Apr-00	11:06 AM	1.1 MR	Slack high	7.97	19.7	2.7	7.55	19.4	4.5	5.2
19-Apr-00	11:33 AM	39.1	Slack high	8.13	19.8	0.7	7.99	19.5	1.4	9.1
26-Apr-00	9:25 AM	34.3	Late ebb	5.45	20.0	0.3	5.38	20.1	1.8	10.4
26-Apr-00	10:12 AM	2.1 MR	Late ebb	7.52	19.6	0.9	7.28	19.6	1.3	2.1
26-Apr-00	10:46 AM	36.1	Late ebb	7.66	19.9	0.1	7.97	19.8	0.1	9.5
26-Apr-00	10:56 AM	37.7	Late ebb	7.72	19.9	0.1	8.01	19.7	0.1	10.1
26-Apr-00	11:05 AM	38.0	Late ebb	7.72	19.8	0.1	8.01	19.7	0.1	10.7
01-May-00	1:48 PM	33.5	Late ebb	8.65	21.3	0.4	8.89	21.1	0.9	10.1
01-May-00	2:12 PM	1.8 MR	Late ebb	8.92	21.1	1.6	8.95	21.0	1.6	1.5
01-May-00	2:31 PM	35.3	Late ebb	8.63	21.2	0.2	8.83	21.2	0.2	4.9
01-May-00	2:45 PM	37.7	Late ebb	8.89	21.2	0.1	8.73	21.3	0.1	5.5
01-May-00	2:54 PM	38.2	Late ebb	8.43	21.4	0.1	8.81	21.3	0.1	10.1
02-May-00	4:15 PM	39.1	Late ebb	8.55	22.1	0.1	8.33	22.1	0.1	8.5
10-May-00	4:10 PM	36.9	Slack high	6.86	25.7	1.9	6.33	25.3	3.0	11.3
10-May-00	4:21 PM	37.7	Slack high	6.76	25.6	1.9	6.45	25.3	2.6	11.9
10-May-00	4:57 PM	46.2	Slack high	7.29	25.8	0.1	7.24	25.7	0.1	4.9
18-May-00	5:00 PM	37.7	Late ebb	7.15	26.1	0.1	7.14	26.2	0.1	10.7
18-May-00	5:18 PM	40.1	Late ebb	7.18	26.2	0.1	7.18	26.2	0.1	6.1
18-May-00	5:52 PM	47.5	Late ebb	7.35	26.2	0.1	7.36	26.3	0.1	4.3

Appendix 1. Water Quality data (date, time, location, tide stage, depth, surface and bottom dissolved oxygen, temperature, and salinity) for locations where fish were found. Note:MR indicates Middle River and ND indicates no data

Date	Track Time	River Kilometer	Tide	Surf DO	Surf Temp	Surf Sal	Bottom DO	Bottom Temp	Bottom Sal	Depth (m)
25-May-00	10:10 AM	39.9	Late ebb	7.75	26.7	0.1	7.88	26.6	0.1	7.0
25-May-00	10:50 AM	47.3	Late ebb	7.78	26.7	0.1	7.73	26.7	0.1	4.3
31-May-00	3:50 PM	39.9	Late ebb	6.75	26.9	0.1	6.74	26.8	0.1	6.7
31-May-00	4:12 PM	47.3	Late ebb	6.97	26.8	0.1	7.02	26.9	0.1	5.2
06-Jun-00	2:41 PM	39.6	High slack	5.78	27.6	0.3	5.37	27.5	0.5	7.0
06-Jun-00	3:20 PM	47.0	High slack	6.35	27.5	0.1	6.42	27.5	0.1	6.4
14-Jun-00	3:35 PM	37.5	Slack low	7.47	28.6	0.1	7.53	28.5	0.1	11.3
15-Jun-00	10:12 AM	47.3	Slack high	6.87	28.0	0.1	6.94	28.0	0.1	6.4
21-Jun-00	1:18 PM	36.7	High slack	5.79	29.2	4.2	4.56	29.1	7.7	7.3
21-Jun-00	2:08 PM	48.0	High slack	8.08	28.6	0.1	8.11	28.6	0.1	4.6
27-Jun-00	1:20 PM	36.7	Slack low	6.78	28.6	0.1	6.93	28.6	0.1	8.8
27-Jun-00	1:54 PM	47.5	Slack low	6.85	28.3	0.1	6.95	28.2	0.1	4.6
06-Jul-00	9:02 AM	36.9	Slack low	6.84	28.2	0.1	6.81	28.2	0.1	9.8
06-Jul-00	9:50 AM	47.5	Slack low	6.98	28.5	0.1	6.99	28.5	0.1	4.9
12-Jul-00	2:28 PM	36.4	Slack low	6.51	29.3	0.1	6.47	29.0	0.1	10.1
12-Jul-00	3:27 PM	47.3	Slack low	6.53	29.4	0.1	6.43	29.2	0.1	5.2
18-Jul-00	11:42 AM	0.2 MR	Slack high	6.22	30.6	1.5	3.92	30.4	7.9	3.7
18-Jul-00	11:54 AM	36.4	Slack high	4.96	30.6	5.4	3.60	30.2	8.9	14.9
18-Jul-00	12:19 PM	47.5	Slack high	6.62	30.3	0.1	6.50	29.8	0.1	6.7
19-Jul-00	12:03 PM	36.4	Slack high	5.42	30.5	4.2	3.82	30.4	8.4	11.9
19-Jul-00	12:36 PM	46.4	Slack high	6.74	30.2	0.1	6.54	29.7	0.1	5.8
19-Jul-00	12:51 PM	47.5	Slack high	6.88	30.2	0.1	6.67	29.7	0.1	6.4
27-Jul-00	1:50 PM	36.5	Early flood	6.98	28.6	0.1	7.00	28.4	0.1	7.6
27-Jul-00	3:02 PM	47.3	Early flood	7.30	28.7	0.1	7.27	28.3	0.1	4.6
03-Aug-00	1:45 PM	36.5	Slack high	5.11	29.7	2.7	4.62	29.7	3.6	13.7
03-Aug-00	3:02 PM	47.5	Slack high	6.11	29.1	0.1	7.23	29.3	0.1	5.5
17-Aug-00	12:59 PM	47.5	Slack high	6.34	28.9	0.1	6.35	28.9	0.1	6.4
17-Aug-00	1:15 PM	47.3	Slack high	6.18	28.9	0.1	6.26	29.0	0.1	5.5
24-Aug-00	1:15 PM	47.5	Slack low	6.37	26.9	0.1	6.41	26.7	0.1	5.2
24-Aug-00	1:20 PM	47.5	Slack low	6.75	26.9	0.1	6.72	26.8	0.1	5.8
06-Sep-00	7:02 PM	47.5	Slack high	6.14	24.8	0.1	6.23	24.8	0.1	4.0
14-Sep-00	11:17 AM	47.5	Slack high	6.14	26.4	0.1	6.15	25.9	0.1	7.3
20-Sep-00	4:17 PM	47.5	Slack high	ND	ND	ND	ND	ND	ND	7.0
11-Oct-00	8:50 AM	35.1	Slack high	4.91	21.5	10.1	4.66	21.9	13.4	6.7

