

## **APPENDIX 8B**

### **HABITAT: CONTAINS DATA FOR EACH SITE WHERE SAMPLES WERE COLLECTED FOR DETECTION OF *MANAYUNKIA SPECIOSA***

Sites where the polychaete was present are shaded. Site numbers correspond to locations displayed in Figure 8.4-2 (six pages).



Site #	Location	Sampler	Polychaete collected	~ Area Sampled m <sup>2</sup>	Est. Abund/m <sup>2</sup>	Substrate	Habitat	Temp °C	Depth (m)	Velocit
1	BOYLE DAM	PONAR	0	0.238	0	ORGANIC	PROFUNDAL	.	11.00	.
2	BOYLE DAM	MANUAL	0	0.100	0	BOULDER	EDGE-WATER	23.00	0.50	0.0
3	KENO DAM	MANUAL	0	0.100	0	VEGETATION	SURFACE VEG	23.80	0.02	0.0
4	KENO REACH	MANUAL	0	0.150	200	COBBLE/BOULD	EDDY	23.30	1.00	0.1
5	KENO REACH	MANUAL	0	0.100	0	BOULDER	RIFFLE	.	0.00	0.4
6	SHOVEL CRK	MANUAL	0	0.250	0	BOULDER	FAST RUN	17.10	0.25	0.1
7	IRONGATE INFLOW	MANUAL	0	0.150	0	COBBLE	MODERATE RUN	20.70	0.25	0.1
8	KENO RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM	PROFUNDAL/TRANSITIO	21.90	4.72	.
9	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	22.20	6.04	.
10	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	22.30	4.44	.
11	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	23.00	4.98	.
12	KENO RESERVOIR	PONAR	0	0.238	0	MUD	EDGE-WATER	24.10	1.00	.
13	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	23.50	5.60	.
14	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	24.10	2.51	.
15	KENO RESERVOIR	PONAR	0	0.238	0	MUD	PROFUNDAL	25.20	3.84	.
16	KENO RESERVOIR	KICKNET	0	1.000	0	GRAVEL/SAND	BACKWATER CHANNEL	.	0.35	0.0
17	KENO RESERVOIR	MANUAL	0	1.000	0	COBBLE/BOULD	BACKWATER CHANNEL	.	0.35	0.0
18	KENO REACH	MANUAL	42	0.250	168	BOULDER	EDDY/POOL	24.10	0.50	0.0
19	KENO REACH	KICKNET	1	1.000	1	COBBLE	EDDY/POOL	.	0.50	0.0
20	KENO REACH	MANUAL	0	0.180	0	COBBLE	EDDY/POOL	.	0.50	0.0
21	BOYLE RESERVOIR	PONAR	11	0.150	73	BOULDER	BENTHIC/RIVERINE ZON	23.30	5.71	.
22	BOYLE RESERVOIR	KICKNET	0	1.000	0	COBBLE	EDGE-WATER	24.60	0.15	0.0
23	BOYLE RESERVOIR	MANUAL	0	0.250	0	COBBLE	EDGE-WATER	24.60	0.15	0.0
24	BOYLE RESERVOIR	KICKNET	0	1.000	0	COBBLE	EDGE-WATER	24.60	0.23	0.0
25	BOYLE RESERVOIR	PONAR	23	0.150	153	BOULDER	PROFUNDAL/TRANSITIO	.	6.90	.
26	BOYLE RESERVOIR	KICKNET	0	1.000	0	COBBLE/BOULD	EDGE-WATER	23.70	0.15	0.0
27	BOYLE RESERVOIR	MANUAL	0	0.250	0	COBBLE/BOULD	EDGE-WATER	23.70	0.15	0.0
28	BOYLE RESERVOIR	KICKNET	0	1.000	0	COBBLE/PEBBLI	EDGE-WATER	.	0.15	.
29	BOYLE RESERVOIR	MANUAL	0	0.250	0	COBBLE/PEBBLI	EDGE-WATER	.	0.15	.
30	BOYLE RESERVOIR	MANUAL	0	0.250	0	COBBLE/PEBBLI	EDGE-WATER	.	0.15	.
31	BOYLE RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM	PROFUNDAL	22.00	5.08	.
32	BOYLE RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM	PROFUNDAL	.	.	.
33	BOYLE RESERVOIR	KICKNET	0	1.000	0	COBBLE/PEBBLI	EDGE-WATER	24.00	0.50	0.0
34	BOYLE RESERVOIR	MANUAL	0	0.250	0	COBBLE/PEBBLI	EDGE-WATER	24.00	0.50	0.0
35	BOYLE RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM	PROFUNDAL (50FT FROM	23.00	4.92	.
36	SHOVEL CRK	KICKNET	1	1.000	1	GRAVEL/SAND	GLIDE	21.50	0.65	0.1
37	SHOVEL CRK	MANUAL	0	0.250	0	GRAVEL/SAND	GLIDE	21.50	0.65	0.1
38	SHOVEL CRK	KICKNET	0	1.000	0	SAND	POOL	21.50	0.65	0.0
39	SHOVEL CRK	KICKNET	0	1.000	0	COBBLE/PEBBLI	FRUN	22.00	0.40	0.6
40	SHOVEL CRK	MANUAL	0	0.250	0	COBBLE/PEBBLI	FRUN	22.00	0.25	0.0
41	SHOVEL CRK	MANUAL	0	0.250	0	COBBLE/PEBBLI	SMALL SIDE POOL	.	0.25	0.0
42	SHOVEL CRK	KICKNET	1	1.000	1	COBBLE/BOULD	SLOW BEND/POOL	21.50	0.50	0.1
43	SHOVEL CRK	MANUAL	0	0.250	0	COBBLE/BOULD	SLOW BEND/POOL	21.50	0.50	0.1

44	SHOVEL CRK	KICKNET	0	1.000	0	COBBLE/BOULD SLOW BEND/POOL	21.50	0.50	0.1
45	SHOVEL CRK	MANUAL	0	0.250	0	COBBLE/BOULD GLIDE	.	0.50	0.2
46	IRONGATE	MANUAL	0	0.250	0	BEDROCK/BOUL RUN	.	0.35	0.6
47	IRONGATE	KICKNET	0	1.000	0	COBBLE/BOULD RUN	.	0.40	0.9
48	COPCO 2 BRIDGE	KICKNET	0	1.000	0	COBBLE/BOULD GLIDE	23.00	0.60	0.0
49	COPCO 2 BRIDGE	KICKNET	6	1.000	6	COBBLE/BOULD RUN	.	2.10	.
50	I-96	KICKNET	4	1.000	4	BOULDER/SAND RUN	27.10	0.75	0.0
51	I-96	KICKNET	0	1.000	0	COBBLE RUN	23.90	0.40	0.3
52	I-96	MANUAL	0	0.250	0	COBBLE RUN	23.90	0.40	0.3
53	I-96	KICKNET	0	1.000	0	COBBLE EDDY	23.90	1.20	0.2
54	I-96	KICKNET	4	1.000	4	COBBLE EDDY	23.90	1.20	0.4
55	I-96	KICKNET	11	1.000	11	COBBLE EDDY	23.90	1.20	0.4
56	I-96	KICKNET	0	1.000	0	COBBLE RUN	25.00	0.50	1.2
57	I-96	KICKNET	0	1.000	0	COBBLE RUN	25.00	0.50	1.2
58	I-96	KICKNET	0	1.000	0	COBBLE RUN	.	0.50	0.2
59	I-96	KICKNET	0	1.000	0	BOULDER/SAND ROTATING POOL	25.00	1.70	0.0
60	I-96	KICKNET	0	1.000	0	GRAVEL/SAND ROTATING POOL	25.00	1.50	0.0
61	I-96	KICKNET	0	1.000	0	COBBLE/GRAVE WIDE SHALLOW RUN	25.00	0.25	0.2
62	I-96	KICKNET	0	1.000	0	BOULDER POOL	22.00	2.20	0.0
63	I-96	MANUAL	0	1.000	0	BOULDER POOL	22.00	0.50	0.0
64	I-96	KICKNET	8	1.000	8	BOULDER/SAND SLOW DEEP POOL	21.90	1.20	0.0
65	I-96	KICKNET	0	1.000	0	COBBLE/BOULD RUN	22.10	1.10	0.1
66	I-96	KICKNET	0	1.000	0	COBBLE/BOULD RUN	23.70	0.15	0.1
67	I-96	KICKNET	0	1.000	0	COBBLE RUN	24.00	0.25	0.0
68	I-96	KICKNET	0	1.000	0	BOULDER/SAND RUN	26.00	0.25	0.0
69	I-96	MANUAL	0	1.000	0	BOULDER RUN	26.00	0.25	0.0
70	I-96	KICKNET	0	1.000	0	COARSE SAND GLIDE	27.00	2.00	0.1
71	I-96	KICKNET	10	1.000	10	SAND/SILT/FPOM GLIDE	27.00	2.00	0.1
72	I-96	KICKNET	0	1.000	0	COBBLE/SAND POOL/EDDY	26.10	0.75	0.6
73	I-96	KICKNET	0	1.000	0	COARSE SAND GLIDE	22.00	0.25	0.0
74	I-96	KICKNET	0	1.000	0	LARGE COBBLE MODERATE RUN	21.20	1.00	0.2
75	I-96	KICKNET	0	1.000	0	GRAVEL RIFFLE	23.00	0.26	0.6
76	I-96	KICKNET	0	1.000	0	COBBLE/SAND SLOW RUN	24.00	1.20	0.1
77	I-96	KICKNET	0	1.000	0	COBBLE/SAND SLOW RUN	21.10	1.20	0.1
78	I-96	KICKNET	1	1.000	1	GRAVEL/SAND BACKWATER CHANNEL/	21.90	1.00	0.0
79	I-96	KICKNET	0	1.000	0	GRAVEL/SAND BACKWATER CHANNEL/	21.90	1.00	0.0
80	I-96	KICKNET	0	1.000	0	GRAVEL/SAND BACKWATER CHANNEL/	21.90	1.00	0.0
81	KENO RESERVOIR	PONAR	0	0.238	0	SAND/SILT/FPOM TRANSITION/PROFUNDA	22.20	2.41	.
82	KENO RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM TRANSITION/PROFUNDA	21.50	6.55	.
83	KENO RESERVOIR	PONAR	0	0.238	0	SAND/SILT/FPOM TRANSITION/PROFUNDA	22.00	5.89	.
84	KENO RESERVOIR	PONAR	0	0.238	0	SAND/SILT/FPOM TRANSITION/PROFUNDA	22.30	1.37	.
85	KENO RESERVOIR	PONAR	0	0.238	0	FINE SILT/OM TRANSITION/PROFUNDA	23.50	5.26	.
86	KENO RESERVOIR/NEAR E PONAR	PONAR	0	0.238	0	ROCK TRANSITION/PROFUNDA	23.00	2.74	.
87	KENO RESERVOIR/NEAR E PONAR	PONAR	?	0.238	?	ROCK TRANSITION/PROFUNDA	22.90	3.81	.
88	KENO RESERVOIR/NEAR E PONAR	PONAR	0	0.238	0	SAND/SILT/FPOM TRANSITION/PROFUNDA	22.30	2.46	.
89	KENO RESERVOIR/NEAR E PONAR	PONAR	0	0.238	0	SILT/FPOM TRANSITION/PROFUNDA	22.10	2.94	.

pH	conductivity mS	TDS mg/l	GPS N	GPS W	Date	Comments
.	.	.	42 07.311	122 02.898	06/05/2003	HIGH PRIMARY PRODUCTION
.	.	.	42 07.311	122 02.899	06/05/2003	HIGH PRIMARY PRODUCTION
.	.	.	42 08.091	121 56.894	06/05/2003	HIGH PRIMARY PRODUCTION
.	.	.	42 08.974	122 00.933	06/05/2003	
.	.	.	42 08.974	122 00.934	06/06/2003	
.	.	.	41 58.343	122 12.096	06/10/2003	
.	.	.	41 58.386	122 21.840	06/06/2003	
8.86	155.0	74.6	42 07.852	121 55.927	07/01/2003	HIGH PRIMARY PRODUCTION
8.35	141.2	70.1	42 08.187	121 57.001	07/02/2003	METHANE PRODUCTION
7.70	133.4	67.1	42 08.150	121 56.968	07/02/2003	METHANE PRODUCTION
9.25	.	.	42 08.119	121 57.006	07/02/2003	METHANE PRODUCTION
9.41	152.1	75.7	42 08.203	121 57.083	07/02/2003	METHANE PRODUCTION
9.00	146.1	72.3	42 08.261	121 56.892	07/02/2003	METHANE PRODUCTION
9.43	159.3	79.7	42 08.319	121 56.749	07/02/2003	METHANE PRODUCTION
8.66	134.4	67.3	42 08.052	121 56.316	07/02/2003	METHANE PRODUCTION
.	.	.	42 08.063	121 56.309	07/02/2003	HEAVY BANK VEGETATION
.	.	.	42 08.063	121 56.310	07/02/2003	
8.94	144.5	72.3	42 08.969	122 00.965	07/04/2003	BEGINNING OF EDDY. FOUND IN CLADOPHORA-LIKE MATS
.	.	.	42 08.969	122 00.966	07/04/2003	MID-EDDY
.	.	.	42 08.969	122 00.967	07/05/2003	MID-EDDY
8.75	154.6	.	42 07.319	122 02.024	07/03/2003	RIVERINE ZONE OF RESERVIOR. FOUND WITH SPONGE
8.95	154.3	76.9	42 07.927	122 02.039	07/03/2003	
8.95	154.3	76.9	42 07.927	122 02.040	07/03/2003	
8.95	154.3	76.9	42 07.927	122 02.041	07/03/2003	
.	.	.	42 07.873	122 02.114	07/03/2003	TRANSITION ZONE RESERVIOR. FOUND WITH SPONGE
8.87	173.1	84.4	.	.	07/03/2003	SOUTH SHORE ~500 m FROM DAM
8.87	173.1	85.4	.	.	07/03/2003	SOUTH SHORE ~500 m FROM DAM
.	.	.	.	.	07/03/2003	NORTH SHORE
.	.	.	.	.	07/03/2003	NORTH SHORE
.	.	.	.	.	07/03/2003	NORTH SHORE
8.35	148.4	74.5	42 07.149	122 02.391	07/03/2003	LUCUSTRINE
.	.	.	42 07.682	122 02.356	07/03/2003	LUCUSTRINE
9.16	152.3	76.7	42 07.625	122 02.454	07/03/2003	LUCUSTRINE
9.16	152.3	76.7	42 07.625	122 02.455	07/03/2003	LUCUSTRINE
8.97	151.5	.	42 07.662	122 02.533	07/03/2003	LUCUSTRINE
8.46	165.0	82.3	41 58.022	122 15.256	07/08/2003	LITTLE VEG. MOD EMBEDDEDNESS
8.46	165.0	82.3	41 58.022	122 15.257	07/08/2003	LITTLE VEG. MOD EMBEDDEDNESS
8.46	165.0	82.3	41 58.022	122 15.258	07/08/2003	LITTLE VEG. MOD EMBEDDEDNESS
8.47	159.4	80.0	41 57.842	122 13.722	07/08/2003	VARIABLE FLOW
8.47	159.4	80.0	41 57.842	122 13.723	07/08/2003	VARIABLE FLOW
.	.	.	41 57.842	122 13.724	07/08/2003	VARIABLE FLOW
8.53	153.9	77.1	41 59.521	122 11.417	07/08/2003	HIGH EMBEDDEDNESS
8.53	153.9	77.1	41 59.521	122 11.418	07/08/2003	HIGH EMBEDDEDNESS

.	.	.	41 59.521	122 11.419	07/08/2003	HIGH EMBEDDEDNESS
.	.	.	42 00.291	122 11.407	07/08/2003	HIGH EMBEDDEDNESS
.	.	.	41 54.035	122 30.735	07/09/2003	
.	.	.	41 55.774	122 26.557	07/09/2003	BELOW HATCHERY
8.34	219.0	111.0	41 58.399	122 21.854	07/09/2003	1m FROM LEFT BANK
.	.	.	41 58.399	122 21.855	07/09/2003	4m FROM LEFT BANK
9.01	266.0	.	.	.	07/28/2003	1 km DOWNSTREAM OF BRIDGE
8.26	233.0	117.0	44 33.975	123 17.033	07/29/2003	
8.26	233.0	117.0	44 33.975	123 17.033	07/29/2003	
8.22	238.0	11.3	.	.	07/29/2003	POLYCHAETES DEAD.SAMPLE 60m UP FROM96KR02
8.22	238.0	11.3	.	.	07/29/2003	POLYCHAETES DEAD.SAMPLE 60m UP FROM96KR02
8.22	238.0	11.3	.	.	07/29/2003	POLYCHAETES DEAD.SAMPLE 60m UP FROM96KR02
8.31	175.0	.	41 49.780	122 39.452	07/29/2003	FUNGUS GROWING ON DEAD ORGANISMS
8.31	175.0	.	41 49.780	122 39.453	07/29/2003	SAMPLES DECAYING
.	.	.	41 49.780	122 39.454	07/29/2003	SAMPLES DECAYING
8.48	229.0	115.0	41 49.593	122 39.445	07/29/2003	SAMPLES DECAYING
8.48	229.0	115.0	41 49.593	122 39.445	07/29/2003	SAMPLES DECAYING
8.66	229.0	115.0	41 49.826	122 39.133	07/29/2003	MUSSEL BED, MUSSEL SHELLS BARE
8.16	1885.0	934.0	41 49.995	122 37.199	07/30/2003	ASH CRK BRIDGE. SAMLPE ARE DECAYING
8.16	1885.0	934.0	41 49.995	122 37.199	07/30/2003	LARGE COLONIES OF SPONGE OBSERVED
8.15	233.0	110.0	41 49.915	122 37.564	07/30/2003	POLYCHAETES FOUND IN CLADOPHORA MATS
8.56	205.0	106.0	41 51.768	122 43.979	07/30/2003	SPONGES COLLECTED. SAMPLE DECAYING
8.46	218.0	109.0	41 51.458	122 45.123	07/30/2003	SAMPLES DECAYING
8.20	1802.0	903.0	41 51.245	122 46.020	07/31/2003	SAMPLES DECAYING/TUBES FOUND
8.31	1850.0	934.0	41 51.285	122 46.236	07/31/2003	
8.31	1850.0	934.0	41 51.285	122 46.236	07/31/2003	EXAMINED CLADOPHORA MATS ON BOULDER, NO POLYCHAETES
8.33	1867.0	940.0	.	.	07/31/2003	TUBES PRESENT
8.33	1867.0	940.0	.	.	07/31/2003	TUBES PRESENT/POLYCHAETES DEAD
8.42	216.0	109.0	41 45.758	122 49.147	07/31/2003	BELOW BEAVER CRK
8.16	186.0	92.0	41 49.602	122 39.626	07/31/2003	RIGHT BANK. TUBES PRESENT
.	.	.	41 50.499	122 40.285	08/21/2003	STRANGE TUBE-DWELLING WORMS PRESENT
.	.	.	41 50.543	122 40.857	08/21/2003	
.	.	.	41 51.193	122 41.679	08/21/2003	LOW TO MOD. EMBEDDEDNESS
8.52	197.5	99.2	41 51.547	122 42.291	08/22/2003	RIGHT BANK. LOW EMBEDDEDNESS
8.32	195.0	97.8	41 50.835	122 41.035	08/22/2003	HIGH CPOM. SOME FPOM.
8.32	195.0	97.8	41 50.835	122 41.036	08/22/2003	HIGH CPOM. SOME FPOM.
8.32	195.0	97.8	41 50.835	122 41.037	08/22/2003	HIGH CPOM. SOME FPOM. MANY TUBE-DWELLING OLIGOCHAETES
9.54	1372.0	700.0	42 07.746	121 55.792	08/19/2003	
9.05	160.0	81.0	42 07.616	121 55.645	08/19/2003	
9.11	155.6	78.1	42 07.176	121 55.340	08/19/2003	SLOW BEND
9.15	150.0	75.2	42 07.361	121 54.950	08/19/2003	
9.38	164.8	82.5	42 07.047	121 54.266	08/19/2003	
9.72	153.9	77.1	42 07.678	121 55.747	08/20/2003	CONSTRICTED CHANNEL AT BRIDGE
9.51	156.6	78.6	.	.	08/20/2003	SPONGE GEMMULES COLLECTED. POSSIBLE POLYCHAETE HABITAT
9.53	156.1	78.5	42 07.042	121 55.720	08/20/2003	
9.52	154.7	77.6	42 07.707	121 55.731	08/20/2003	