

Table 6-28
Sediment Toxicity Test Results

Station	Survival (percent)	Growth (mg/organism dry wt.)	Reproduction (mean young per adult)
<i>Neanthes arenaceodentata</i> (10-day test)			
Control	100	0.574 (\pm 0.130)	NA
Reference, Station 2	95	0.753 (\pm 0.072)	NA
Outfall 5/6, Station 4	80	0.667 (\pm 0.169)	NA
Outfall 9, Station 16	100	0.797 (\pm 0.157)	NA
Outfall 10, Station 20	100	1.211 (\pm 0.321)	NA
<i>Leptocheirus plumulosus</i> (28-day test)			
Control	75	0.517 (\pm 0.130)	0.719 (\pm 0.805)
Reference, Station 2	67	0.590 (\pm 0.072)	0.229 (\pm 0.436)
Outfall 5/6, Station 4	43*	0.634 (\pm 0.169)	0.252 (\pm 0.327)
Outfall 9, Station 16	73	0.557 (\pm 0.157)	0.482 (\pm 0.541)
Outfall 10, Station 20	68	0.752 (\pm 0.321)	0.490 (\pm 0.492)

* Significantly different (p=0.05) from reference

Table 6-29
Benthic Community Structure Analysis

Station	Average Number of Individuals	Average Number of Taxa	Shannon-Weiner Index of Diversity
Reference station 2 (intertidal)	980	16.5	1.51
Outfall 005/006 station 1 (intertidal)	250	16.5	1.69
Outfall 005/006 station 2 (intertidal)	491	16.5	1.39
Outfall 005/006 station 3 (intertidal)	671	16.5	1.88
Outfall 005/006 station 4 (intertidal)	445	16.5	1.71
Outfall 010 station 20 (intertidal)	389	16.5	1.97
Reference station 5 (subtidal)	721	16.5	1.68
Outfall 009 station 16 (subtidal)	578	16.5	1.75

Table 6-30
Physical Characteristics of the BCSA Locations

Station	TOC (%)	% clay	%silt	%sand	% gravel
Reference station 2 (intertidal)	2.62	16	78	6	-
Outfall 005/006 station 1 (intertidal)	2.52	18	34	46	2
Outfall 005/006 station 2 (intertidal)	1.40	14	16	68	2
Outfall 005/006 station 3 (intertidal)	2.59	23	65	12	-
Outfall 005/006 station 4 (intertidal)	2.24	24	56	19	1
Outfall 010 station 20 (intertidal)	1.35	3	52	45	-
Reference station 5 (subtidal)	3.21	18	73	9	-
Outfall 009 station 16 (subtidal)	1.43	5	10	65	20

Table 6-31
Species Abundance in Intertidal Samples

Species Rank	Species	Number of Individuals	% of fauna by number	Cumulative % by number
1	<i>Streblospio benedicti</i>	5329	41.6	41.6
2	<i>Heteromastus filiformis</i>	2277	17.8	59.3
3	<i>Neanthes virens</i>	926	7.2	66.5
4	<i>Tharyx acutus</i>	805	6.3	72.8
5	<i>Gemma gemma</i>	763	6.0	78.8
6	<i>Scoloplos fragilis</i>	465	3.6	82.4
7	<i>Eteone heteropoda</i>	450	3.5	85.9
8	<i>Tubificidae</i>	323	2.5	88.4
9	<i>Cyathura polita</i>	313	2.4	90.9
10	<i>Macoma tenta</i>	290	2.3	93.1
11	<i>Hydrobia sp.</i>	200	1.6	94.7
12	<i>Macoma balthica</i>	142	1.1	95.8
13	<i>Tubificoides sp.</i>	121	0.9	96.7
14	<i>Tubificoides benedeni</i>	79	0.6	97.4
15	<i>Pygospio elegans</i>	78	0.6	98.0
16	<i>Capitella capitata</i>	66	0.5	98.5
17	<i>Polydora ligni</i>	54	0.4	98.9
18	<i>Nassarius obsoletus</i>	51	0.4	99.3
19	<i>Prostoma graecense</i>	22	0.2	99.5
20	Other species	68	0.5	100

Table 6-32
Species Abundance in Subtidal Samples

Species Rank	Species	Number of Individuals	% of fauna by number	Cumulative % by number
1	<i>Streblospio benedicti</i>	2190	42.2	42.2
2	<i>Tubificidae</i>	636	12.2	54.4
3	<i>Tubificoides benedeni</i>	441	8.5	62.9
4	<i>Heteromastus filiformis</i>	376	7.2	70.1
5	<i>Neanthes virens</i>	298	5.7	75.9
6	<i>Tharyx acutus</i>	295	5.7	81.6
7	<i>Capitella capitata</i>	166	3.2	84.8
8	<i>Eteone heteropoda</i>	145	2.8	87.5
9	<i>Hydrobiidae</i>	139	2.7	90.2
10	<i>Gemma gemma</i>	119	2.3	92.5
11	<i>Macoma tenta</i>	76	1.5	94.0
12	<i>Polydora ligni</i>	58	1.1	95.1
13	<i>Pygospio elegans</i>	57	1.1	96.2
14	<i>Byblis serrata</i>	55	1.1	97.2
15	<i>Scoloplos fragilis</i>	54	1.0	98.3
16	<i>Cyathura polita</i>	27	0.5	98.8
17	<i>Macoma balthica</i>	18	0.3	99.2
18	<i>Nematoda</i>	13	0.3	99.4
19	<i>Prostoma graecense</i>	9	0.2	99.6
20	Other species	22	0.4	100