

**CHESAPEAKE BAY WATER QUALITY
MONITORING PROGRAM**

**LONG-TERM BENTHIC MONITORING
AND ASSESSMENT COMPONENT
LEVEL I COMPREHENSIVE REPORT**

JULY 1984–DECEMBER 2004 (VOLUME 2)

Prepared for

Maryland Department of Natural Resources
Resource Assessment Service
Tidewater Ecosystem Assessments
Annapolis, Maryland

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DATA SUMMARY A

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT FIXED SITES:
SPRING 2004**

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 11MAY2004 Time: 11:50:20
BOTTOM ENVIRONMENT			
Depth (m): 1.8 Dissolved Oxygen (mg/l): 9.6	Salinity (ppt): 9.86 Sediment Silt-Clay (%): 1.54	Temperature (C): 16.43 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.69		0.12
Abundance (#/m2)	34240		0.36
Biomass (g/m2)	10.05		90.77
Carnivore-Omnivore Abundance (%)	0.82		68.67
Deep Deposit Feeder Abundance (%)	0.70		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	1280	0.13200	
Apocorophium lacustre (Epi)	40	0.01200	
Eteone heteropoda	40	0.03600	
Heteromastus filiformis	240	0.04800	
Lepidactylus dytiscus	600	0.56400	
Littoridinops tenuipes (Epi)	320	0.00800	
Macoma balthica	160	0.03200	
Macoma mitchelli	40	1.48800	
Marenzelleria viridis	30920	6.86800	
Micrura lei dyi	240	0.61600	
Paraonis fulgens	720	0.26400	
Total Abundance w/ Epi.	34600		
Total Abundance w/o Epi.	34240		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		10.06800	
Total Biomass w/o Epi.		10.04800	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq.m	Rep: 02 Date: 11MAY2004 Time: 11:50:20
BOTTOM ENVIRONMENT			
Depth (m): 1.8 Dissolved Oxygen (mg/l): 9.6	Salinity (ppt): 9.86 Sediment Silt-Clay (%): 1.54	Temperature (C): 16.43 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.43		0.00
Abundance (#/m2)	44840		0.00
Biomass (g/m2)	13.63		95.18
Carnivore-Omnivore Abundance (%)	0.62		64.85
Deep Deposit Feeder Abundance (%)	0.62		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	560	0.02400	
Heteromastus filiformis	280	0.04400	
Lepidactylus dytiscus	520	0.50000	
Leptocheirus plumulosus	40	0.00200	
Macoma balthica	160	0.01200	
Macoma mitchelli	80	0.86400	
Marenzelleria viridis	42520	8.82400	
Micrura lei dyi	280	3.17600	
Paraonis fulgens	400	0.18000	
Total Abundance w/ Epi.	44840		
Total Abundance w/o Epi.	44840		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		13.62600	
Total Biomass w/o Epi.		13.62600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 03 Date: 11MAY2004 Time: 11:50:20
BOTTOM ENVIRONMENT			
Depth (m): 1.8 Dissolved Oxygen (mg/l): 9.6	Salinity (ppt): 9.86 Sediment Silt-Clay (%): 1.54	Temperature (C): 16.43 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.80		0.16
Abundance (#/m2)	24480		0.07
Biomass (g/m2)	5.75		88.73
Carnivore-Omnivore Abundance (%)	0.98		80.39
Deep Deposit Feeder Abundance (%)	1.63		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	1200	0.08000	
Carinoma tremaphoros	40	0.09200	
Heteromastus filiformis	360	0.10400	
Leitoscoloplos spp.	40	0.00400	
Lepidactylus dytiscus	240	0.25600	
Littoridinops tenuipes (Epi)	600	0.01200	
Macoma balthica	80	0.01200	
Macoma mitchelli	160	0.12000	
Marenzelleria viridis	21640	4.61200	
Micrura lei dyi	160	0.25600	
Neanthes succinea	40	0.01200	
Paraonis fulgens	520	0.20400	
Total Abundance w/ Epi.	25080		
Total Abundance w/o Epi.	24480		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		5.76400	
Total Biomass w/o Epi.		5.75200	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Calvert Cliffs Discharge Gear: Modified Box Corer		Station: 006 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 11MAY2004 Time: 11:18:51
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 9.7	Salinity (ppt): 9.88 Sediment Silt-Clay (%): 1.18	Temperature (C): 16.43 Total Carbon (%): 0.08	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.15		0.31
Abundance (#/m2)	38160		1.29
Biomass (g/m2)	18.00		87.53
Carnivore-Omnivore Abundance (%)	1.36		71.87
Deep Deposit Feeder Abundance (%)	1.89		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	1120	0.14000	
Heteromastus filiformis	600	0.06800	
Leitoscoloplos robustus	120	0.23200	
Lepidactylus dytiscus	120	0.05600	
Leptocheirus plumulosus	400	0.01200	
Macoma balthica	1720	0.48000	
Macoma mitchelli	1800	3.64800	
Marenzelleria viridis	31480	6.94800	
Micrura leidyi	480	0.83600	
Mya arenaria	200	5.51200	
Neanthes succinea	40	0.04400	
Paraonis fulgens	80	0.02800	
Total Abundance w/ Epi.	38160		
Total Abundance w/o Epi.	38160		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		18.00400	
Total Biomass w/o Epi.		18.00400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Calvert Cliffs Discharge		Station: 006	Rep: 02
Gear: Modified Box Corer		Habitat: High Mesohaline Sand	Date: 11MAY2004
		Sampled Area: 0.025 sq. m	Time: 11:18:51
BOTTOM ENVIRONMENT			
Depth (m): 2.5	Salinity (ppt): 9.88	Temperature (C): 16.43	
Dissolved Oxygen (mg/l): 9.7	Sediment Silt-Clay (%): 1.18	Total Carbon (%): 0.08	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.31		0.00
Abundance (#/m2)	38320		0.00
Biomass (g/m2)	19.46		81.94
Carnivore-Omnivore Abundance (%)	1.25		33.15
Deep Deposit Feeder Abundance (%)	1.15		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	3600	0.44400	
Glycera dibranchiata	40	3.53200	
Heteromastus filiformis	440	0.27600	
Leptocheirus plumulosus	160	0.08400	
Macoma balthica	2320	0.45200	
Macoma mitchelli	2200	8.30400	
Marenzelleria viridis	29080	6.00000	
Micrura lei dyi	440	0.36400	
Paraonis fulgens	40	0.00800	
Total Abundance w/ Epi.	38320		
Total Abundance w/o Epi.	38320		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		19.46400	
Total Biomass w/o Epi.		19.46400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Calvert Cliffs Discharge Gear: Modified Box Corer	Station: 006 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 03 Date: 11MAY2004 Time: 11:18:51
BOTTOM ENVIRONMENT		
Depth (m): 2.5 Dissolved Oxygen (mg/l): 9.7	Salinity (ppt): 9.88 Sediment Silt-Clay (%): 1.18	Temperature (C): 16.43 Total Carbon (%): 0.08
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value	Score
Shannon-Wiener Index	1.05	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	44600	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	11.99	Pollution Sensitive Species Abundance (%) 87.71
Carnivore-Omnivore Abundance (%)	1.26	Pollution Sensitive Species Biomass (%) 53.45
Deep Deposit Feeder Abundance (%)	0.72	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	1640	0.11600
Carinoma tremaphoros	200	0.04400
Heteromastus filiformis	320	0.07200
Leptocheirus plumulosus	280	0.02400
Littoridinops tenuipes (Epi)	280	0.00800
Macoma balthica	2200	0.60800
Macoma mitchelli	2560	4.05200
Marenzelleria viridis	36920	5.80000
Micrura lei dyi	360	1.26800
Paraonis fulgens	120	0.00400
Total Abundance w/ Epi.	44880	
Total Abundance w/o Epi.	44600	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		11.99600
Total Biomass w/o Epi.		11.98800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 11MAY2004 Time: 10:12:24
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 10.1		Salinity (ppt): 7.46 Sediment Silt-Clay (%): 1.00	Temperature (C): 18.02 Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.05		0.10
Abundance (#/m2)	39240		0.02
Biomass (g/m2)	12.90		82.47
Carnivore-Omnivore Abundance (%)	0.92		52.43
Deep Deposit Feeder Abundance (%)	1.83		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Acteocina canaliculata	40	0.00200	
Ameroculodes species complex	1120	0.10400	
Carinoma tremaphoros	40	0.12000	
Eteone heteropoda	40	0.00200	
Gemma gemma	40	0.01600	
Heteromastus filiformis	720	0.89600	
Leptocheirus plumulosus	4160	2.10000	
Macoma balthica	240	0.22000	
Macoma mitchelli	520	1.65200	
Marenzelleria viridis	32080	6.54400	
Micrura leidyi	200	1.20800	
Neanthes succinea	40	0.04000	
Total Abundance w/ Epi.	39240		
Total Abundance w/o Epi.	39240		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		12.90400	
Total Biomass w/o Epi.		12.90400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 02 Date: 11MAY2004 Time: 10:12:24
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 10.1		Salinity (ppt): 7.46 Sediment Silt-Clay (%): 1.00	Temperature (C): 18.02 Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.90		0.11
Abundance (#/m2)	35160		0.00
Biomass (g/m2)	9.37		87.94
Carnivore-Omnivore Abundance (%)	0.91		60.52
Deep Deposit Feeder Abundance (%)	3.87		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	720	0.04400	
Cyathura polita	40	0.00800	
Heteromastus filiformis	1280	0.86800	
Leptocheirus plumulosus	1240	0.95200	
Macoma balthica	320	0.08400	
Macoma mitchelli	640	1.51200	
Marenzelleria viridis	30560	5.58000	
Micrura leidy	240	0.31200	
Neanthes succinea	40	0.00800	
Oligochaeta		0.00200	
Tubificidae imm w/o cap chaetae	40		
Tubificoides spp.	40	0.00200	
Total Abundance w/ Epi.	35160		
Total Abundance w/o Epi.	35160		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		9.37200	
Total Biomass w/o Epi.		9.37200	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 03 Date: 11MAY2004 Time: 10:12:24
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 10.1		Salinity (ppt): 7.46 Sediment Silt-Clay (%): 1.00	Temperature (C): 18.02 Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.00		0.63
Abundance (#/m2)	37840		0.00
Biomass (g/m2)	8.59		86.05
Carnivore-Omnivore Abundance (%)	0.85		51.92
Deep Deposit Feeder Abundance (%)	5.18		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	1000	0.10000	
Edotea triloba (Epi)	40	0.01200	
Heteromastus filiformis	1280	0.98000	
Leptocheirus plumulosus	1560	0.96800	
Macoma balthica	240	0.06000	
Macoma mitchelli	440	1.66400	
Marenzelleria viridis	32320	4.40000	
Micrura leidyi	160	0.07600	
Neanthes succinea	160	0.33600	
Oligochaeta		0.00200	
Tubificidae imm w/o cap chaetae	240		
Tubificoides spp.	440	0.00400	
Total Abundance w/ Epi.	37880		
Total Abundance w/o Epi.	37840		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		8.60200	
Total Biomass w/o Epi.		8.59000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 10MAY2004 Time: 15:26:00
BOTTOM ENVIRONMENT			
Depth (m): 4.5 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 89.06	Temperature (C): 18.60 Total Carbon (%): 3.76	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.46		12.05
Abundance (#/m2)	10080		0.13
Biomass (g/m2)	6.93		50.89
Carnivore-Omnivore Abundance (%)	9.38		78.90
Deep Deposit Feeder Abundance (%)	13.84		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00225	
Edotea triloba (Epi)	90	0.06750	
Edwardsia elegans	90	0.00225	
Gammarus daiberi (Epi)	540	0.07200	
Leptocheirus plumulosus	630	0.33750	
Macoma balthica	315	3.99600	
Macoma mitchelli	630	0.07200	
Marenzelleria viridis	4725	1.31400	
Mya arenaria	45	0.15750	
Mytilopsis leucophaeata (Epi)	45	0.39150	
Neanthes succinea	855	1.00800	
Polydora cornuta	90	0.00450	
Rangia cuneata	45	0.00225	
Streblospio benedicti	1215	0.00900	
Tubificoides spp.	1395	0.02700	
Total Abundance w/ Epi.	10755		
Total Abundance w/o Epi.	10080		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		7.46325	
Total Biomass w/o Epi.		6.93225	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 10MAY2004 Time: 15:26:00
BOTTOM ENVIRONMENT			
Depth (m): 4.5 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 89.06	Temperature (C): 18.60 Total Carbon (%): 3.76	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.93		10.14
Abundance (#/m2)	15975	Pollution Indicative Species Abundance (%)	1.07
Biomass (g/m2)	5.48	Pollution Indicative Species Biomass (%)	63.38
Carnivore-Omnivore Abundance (%)	9.30	Pollution Sensitive Species Abundance (%)	56.61
Deep Deposit Feeder Abundance (%)	12.96	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00900	
Edwardsia elegans	45	0.00225	
Eteone heteropoda	45	0.01350	
Gammarus daiberi (Epi)	360	0.01350	
Heteromastus filiformis	45	0.00450	
Leitoscoloplos spp.	45	0.01800	
Leptocheirus plumulosus	630	0.11700	
Littoridinops tenuipes (Epi)	45	0.00900	
Macoma balthica	180	0.06750	
Macoma tchelli	90	0.01800	
Marenzelleria viridis	9855	2.89350	
Mya arenaria	90	0.13950	
Mytilopsis leucophaeata (Epi)	90	0.93150	
Neanthes succinea	1395	2.09700	
Oligochaeta		0.00225	
Polydora cornuta	45	0.01350	
Streblospio benedicti	1485	0.02700	
Stylochus ellipticus (Epi)	135	0.04950	
Tubificidae imm w/o cap chaetae	45		
Tubificoides spp.	1935	0.05400	
Total Abundance w/ Epi.	16605		
Total Abundance w/o Epi.	15975		
Number of Taxa w/ Epi.	19		
Number of Taxa w/o Epi.	15		
Total Biomass w/ Epi.		6.48000	
Total Biomass w/o Epi.		5.47650	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 10MAY2004 Time: 15:26:00
BOTTOM ENVIRONMENT			
Depth (m): 4.5 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 89.06	Temperature (C): 18.60 Total Carbon (%): 3.76	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.80		17.98
Abundance (#/m2)	10260		1.82
Biomass (g/m2)	1.98		35.96
Carnivore-Omnivore Abundance (%)	12.72		21.70
Deep Deposit Feeder Abundance (%)	8.33		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00225	
Apocorophium lacustre (Epi)	45	0.01350	
Edotea triloba (Epi)	270	0.13950	
Edwardsia elegans	135	0.00900	
Eteone heteropoda	45	0.00450	
Gammarus daiberi (Epi)	1485	1.00350	
Leptocheirus plumulosus	1530	0.13500	
Littoridinops tenuipes (Epi)	180	0.00900	
Macoma balthica	90	0.00225	
Macoma tchelli	405	0.02250	
Marenzelleria viridis	3375	0.35100	
Mya arenaria	45	0.06300	
Mytilopsis leucophaeata (Epi)	900	8.02350	
Neanthes succinea	1125	1.30050	
Polydora cornuta	630	0.02700	
Rangia cuneata	180	0.01350	
Streblospio benedicti	1800	0.03150	
Stylochus ellipticus (Epi)	270	0.09900	
BENTHIC ABUNDANCE (per sq. meter) con't			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Tubificoides spp.	855	0.01800	
Total Abundance w/ Epi.	13410		
Total Abundance w/o Epi.	10260		
Number of Taxa w/ Epi.	19		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		11.26800	
Total Biomass w/o Epi.		1.98000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 10MAY2004 Time: 14:05:00
BOTTOM ENVIRONMENT			
Depth (m): 5.8 Dissolved Oxygen (mg/l): 0.4		Salinity (ppt): 4.20 Sediment Silt-Clay (%): 87.18	Temperature (C): 17.70 Total Carbon (%): 4.49
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.18		0.90
Abundance (#/m2)	10035		0.06
Biomass (g/m2)	3.63		32.29
Carnivore-Omnivore Abundance (%)	4.04		36.70
Deep Deposit Feeder Abundance (%)	15.25		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.01350	
Apocorophium lacustre (Epi)	45	0.00450	
Edotea triloba (Epi)	45	0.03150	
Eteone heteropoda	90	0.00225	
Gammarus dalberi (Epi)	180	0.01800	
Heteromastus filiformis	45	0.16650	
Leptocheirus plumulosus	4500	1.74150	
Littoridinops tenuipes (Epi)	900	0.02700	
Macoma balthica	855	0.37350	
Macoma tchellii	135	0.02250	
Marenzelleria viridis	2385	0.95850	
Melita nitida (Epi)	90	0.00450	
Neanthes succinea	315	0.30600	
Tubificoides spp.	1485	0.04500	
Total Abundance w/ Epi.	11295		
Total Abundance w/o Epi.	10035		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		3.71475	
Total Biomass w/o Epi.		3.62925	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 10MAY2004 Time: 14:05:00
BOTTOM ENVIRONMENT			
Depth (m): 5.8 Dissolved Oxygen (mg/l): 0.4		Salinity (ppt): 4.20 Sediment Silt-Clay (%): 87.18	Temperature (C): 17.70 Total Carbon (%): 4.49
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.56		5.11
Abundance (#/m2)	10575	Pollution Indicative Species Abundance (%)	1.33
Biomass (g/m2)	3.55	Pollution Indicative Species Biomass (%)	17.02
Carnivore-Omnivore Abundance (%)	6.81	Pollution Sensitive Species Abundance (%)	45.12
Deep Deposit Feeder Abundance (%)	19.15	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	675	0.02700	
Carinoma tremaphoros	45	0.06300	
Eteone heteropoda	450	0.04500	
Gammarus daiberi (Epi)	270	0.01800	
Heteromastus filiformis	45	0.20250	
Leptocheirus plumulosus	4860	1.11150	
Littoridinops tenuipes (Epi)	225	0.00900	
Macoma balthica	765	1.36800	
Macoma mitchelli	450	0.10800	
Marenzelleria viridis	495	0.22500	
Neanthes succinea	225	0.33300	
Oligochaeta		0.00225	
Rangia cuneata	540	0.00900	
Streblospio benedicti	45	0.00225	
Tubificidae imm w/o cap chaetae	45		
Tubificoides spp.	1935	0.05400	
Turbellaria (Epi)	45	0.01350	
Total Abundance w/ Epi.	11115		
Total Abundance w/o Epi.	10575		
Number of Taxa w/ Epi.	16		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		3.59100	
Total Biomass w/o Epi.		3.55050	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 10MAY2004 Time: 14:05:00
BOTTOM ENVIRONMENT			
Depth (m): 5.8 Dissolved Oxygen (mg/l): 0.4	Salinity (ppt): 4.20 Sediment Silt-Clay (%): 87.18	Temperature (C): 17.70 Total Carbon (%): 4.49	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.28		4.22
Abundance (#/m2)	10665		0.34
Biomass (g/m2)	6.68		21.52
Carnivore-Omnivore Abundance (%)	6.75		73.88
Deep Deposit Feeder Abundance (%)	8.86		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.00225	
Apocorophium lacustre (Epi)	45	0.01350	
Eteone heteropoda	405	0.01800	
Gammarus daiberi (Epi)	45	0.00225	
Heteromastus filiformis	270	0.38700	
Leptocheirus plumulosus	5940	0.84600	
Macoma balthica	675	4.26150	
Macoma mitchelli	630	0.12600	
Marenzelleria viridis	1350	0.48150	
Neanthes succinea	315	0.34200	
Rangia cuneata	270	0.18900	
Streblospio benedicti	45	0.00450	
Tubificoides spp.	675	0.01800	
Turbellaria (Epi)	45	0.00225	
Total Abundance w/ Epi.	10800		
Total Abundance w/o Epi.	10665		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		6.69375	
Total Biomass w/o Epi.		6.67575	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 01 Date: 10MAY2004 Time: 11:11:00
BOTTOM ENVIRONMENT			
Depth (m): 6.5 Dissolved Oxygen (mg/l): 6.9		Salinity (ppt): 3.60 Sediment Silt-Clay (%): 96.01	Temperature (C): 16.81 Total Carbon (%): 3.6
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.57		1.27
Abundance (#/m2)	7065	Pollution Indicative Species Abundance (%)	0.18
Biomass (g/m2)	6.16	Pollution Indicative Species Biomass (%)	56.69
Carnivore-Omnivore Abundance (%)	3.82	Pollution Sensitive Species Abundance (%)	84.01
Deep Deposit Feeder Abundance (%)	14.65	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.00450	
Apocorophium lacustre (Epi)	45	0.00225	
Carinoma tremaphoros	45	0.08100	
Eteone heteropoda	45	0.00900	
Heteromastus filiformis	135	0.03150	
Leptocheirus plumulosus	1305	0.29700	
Littoridinops tenuipes (Epi)	225	0.00225	
Macoma balthica	2250	4.18950	
Macoma mitchelli	180	0.00225	
Marenzelleria viridis	1710	0.98550	
Mya arenaria	45	0.00225	
Neanthes succinea	180	0.53550	
Streblospio benedicti	45	0.00225	
Tubificoides spp.	900	0.02250	
Total Abundance w/ Epi.	7335		
Total Abundance w/o Epi.	7065		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		6.16725	
Total Biomass w/o Epi.		6.16275	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 02 Date: 10MAY2004 Time: 11:11:00
BOTTOM ENVIRONMENT			
Depth (m): 6.5 Dissolved Oxygen (mg/l): 6.9	Salinity (ppt): 3.60 Sediment Silt-Clay (%): 96.01	Temperature (C): 16.81 Total Carbon (%): 3.6	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.53		4.21
Abundance (#/m2)	8550		0.65
Biomass (g/m2)	11.73		53.68
Carnivore-Omnivore Abundance (%)	7.37		86.62
Deep Deposit Feeder Abundance (%)	14.21		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	315	0.00900	
Carinoma tremaphoros	90	0.16200	
Eteone heteropoda	360	0.07650	
Gammarus daiberi (Epi)	360	0.02250	
Heteromastus filiformis	45	0.00450	
Leptocheirus plumulosus	1755	0.70200	
Littoridinops tenuipes (Epi)	45	0.00225	
Macoma balthica	1755	8.21250	
Macoma mitchelli	45	0.18000	
Marenzelleria viridis	2790	1.94850	
Mya arenaria	45	0.00225	
Neanthes succinea	180	0.41400	
Tubificoides spp.	1170	0.02250	
Total Abundance w/ Epi.	8955		
Total Abundance w/o Epi.	8550		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		11.75850	
Total Biomass w/o Epi.		11.73375	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 03 Date: 10MAY2004 Time: 11:11:00
BOTTOM ENVIRONMENT			
Depth (m): 6.5 Dissolved Oxygen (mg/l): 6.9	Salinity (ppt): 3.60 Sediment Silt-Clay (%): 96.01	Temperature (C): 16.81 Total Carbon (%): 3.6	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.60		3.56
Abundance (#/m2)	11385		0.31
Biomass (g/m2)	8.63		36.36
Carnivore-Omnivore Abundance (%)	5.14		78.88
Deep Deposit Feeder Abundance (%)	22.13		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	495	0.00900	
Carinoma tremaphoros	45	0.17100	
Eteone heteropoda	405	0.02700	
Gammarus daiberi (Epi)	270	0.10350	
Heteromastus filiformis	90	0.06750	
Leptocheirus plumulosus	3285	0.90900	
Macoma balthica	1890	5.32350	
Macoma mitchelli	360	0.01350	
Marenzelleria viridis	2205	1.48050	
Melitanitida (Epi)	135	0.00450	
Mya arenaria	45	0.00225	
Neanthes succinea	135	0.57600	
Tubificoides spp.	2430	0.04950	
Total Abundance w/ Epi.	11790		
Total Abundance w/o Epi.	11385		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		8.73675	
Total Biomass w/o Epi.		8.62875	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 10MAY2004 Time: 12:13:00	
BOTTOM ENVIRONMENT					
Depth (m): 3.9 Dissolved Oxygen (mg/l): 8.9		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 95.34		Temperature (C): 18.07 Total Carbon (%): 3.78	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.76		Pollution Indicative Species Abundance (%)	2.30	
Abundance (#/m2)	3915		Pollution Indicative Species Biomass (%)	0.44	
Biomass (g/m2)	3.05		Pollution Sensitive Species Abundance (%)	71.26	
Carnivore-Omnivore Abundance (%)	5.75		Pollution Sensitive Species Biomass (%)	98.75	
Deep Deposit Feeder Abundance (%)	22.99				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		135		0.00225	
Coelotanypus spp.		90		0.01350	
Cyathura polita		135		0.01800	
Edotea triloba (Epi)		135		0.00225	
Heteromastus filiformis		45		0.01350	
Littoridinops tenuipes (Epi)		45		0.00225	
Macoma balthica		45		1.49850	
Marenzelleria viridis		2385		1.49400	
Rangia cuneata		225		0.00450	
Tubificoides spp.		855		0.00900	
Total Abundance w/ Epi.		4095			
Total Abundance w/o Epi.		3915			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				3.05775	
Total Biomass w/o Epi.				3.05325	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 10MAY2004 Time: 12:13:00	
BOTTOM ENVIRONMENT					
Depth (m): 3.9 Dissolved Oxygen (mg/l): 8.9		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 95.34		Temperature (C): 18.07 Total Carbon (%): 3.78	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.33		Pollution Indicative Species Abundance (%)	1.12	
Abundance (#/m2)	4005		Pollution Indicative Species Biomass (%)	0.42	
Biomass (g/m2)	2.13		Pollution Sensitive Species Abundance (%)	87.64	
Carnivore-Omnivore Abundance (%)	7.87		Pollution Sensitive Species Biomass (%)	95.67	
Deep Deposit Feeder Abundance (%)	7.87				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Coelotanypus spp.		45		0.00900	
Cyathura polita		270		0.04500	
Heteromastus filiformis		45		0.01800	
Leptocheirus plumulosus		135		0.06300	
Marenzelleria viridis		3060		1.98000	
Rangia cuneata		180		0.01350	
Tubificoides spp.		270		0.00225	
Total Abundance w/ Epi.		4005			
Total Abundance w/o Epi.		4005			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				2.13075	
Total Biomass w/o Epi.				2.13075	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 10MAY2004 Time: 12:13:00	
BOTTOM ENVIRONMENT					
Depth (m): 3.9 Dissolved Oxygen (mg/l): 8.9		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 95.34		Temperature (C): 18.07 Total Carbon (%): 3.78	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.86		Pollution Indicative Species Abundance (%)	0.00	
Abundance (#/m2)	4995		Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	12.42		Pollution Sensitive Species Abundance (%)	74.77	
Carnivore-Omnivore Abundance (%)	3.60		Pollution Sensitive Species Biomass (%)	98.71	
Deep Deposit Feeder Abundance (%)	11.71				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00225	
Cyathura polita		180		0.04050	
Gammarus spp. (Epi)		540		0.01800	
Leptocheirus plumulosus		630		0.14850	
Littoridinops tenuipes (Epi)		90		0.00450	
Marenzelleria viridis		2790		1.45350	
Rangia cuneata		765		10.76400	
Tubificoides spp.		585		0.00900	
Total Abundance w/ Epi.		5625			
Total Abundance w/o Epi.		4995			
Number of Taxa w/ Epi.		8			
Number of Taxa w/o Epi.		6			
Total Biomass w/ Epi.				12.44025	
Total Biomass w/o Epi.				12.41775	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 10MAY2004 Time: 12:20:00
BOTTOM ENVIRONMENT			
Depth (m): 5.5 Dissolved Oxygen (mg/l): 4.2		Salinity (ppt): 0.10 Sediment Silt-Clay (%): 72.73	Temperature (C): 23.65 Total Carbon (%): 2.22
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.13	Oligohaline Pollution Indicative Spp. Abund.	16.99
Abundance (#/m2)	25695	Tolerance Score	6.59
Deep Deposit Feeder Abundance (%)	15.41	Oligohaline Pollution Sensitive Spp. Abund.	2.10
Carnivore-Omnivore Abundance (%)	2.45	Tanypodinae/Chironomidae Abundance Ratio	75.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Apocorophium lacustre (Epi)	135	0.00225	
Arctonais lomondi	90		
Chironomidae		0.00225	
Chironomus spp.	45		
Coelotanypus spp.	360	0.09450	
Cryptochironomus spp.	45		
Cyathura polita	90	0.04050	
Gammarus daiberi (Epi)	135	0.01350	
Limnodrilus hoffmeisteri	900		
Littoridinops tenuipes (Epi)	135	0.00225	
Marenzelleria viridis	540	0.59850	
Oligochaeta		0.14400	
Polypedilum halterale group	45		
Procladius spp.	45		
Rangia cuneata	20565	3.88350	
Tubificidae imm w/o cap chaetae	2880		
Tubificoides spp.	90	0.00225	
Total Abundance w/ Epi.	26100		
Total Abundance w/o Epi.	25695		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		4.78350	
Total Biomass w/o Epi.		4.76550	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 10MAY2004 Time: 12:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 5.5 Dissolved Oxygen (mg/l): 4.2		Salinity (ppt): 0.10 Sediment Silt-Clay (%): 72.73		Temperature (C): 23.65 Total Carbon (%): 2.22	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.00		Oligohaline Pollution Indicative Spp. Abund.	22.05	
Abundance (#/m2)	32040		Tolerance Score	6.79	
Deep Deposit Feeder Abundance (%)	20.22		Oligohaline Pollution Sensitive Spp. Abund.	0.70	
Carnivore-Omnivore Abundance (%)	2.11		Tanyptodae/Chironomidae Abundance Ratio	73.33	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00225	
Coelotanypus spp.		360		0.12150	
Gammarus spp. (Epi)		180		0.01350	
Limnodrilus hoffmeisteri		180			
Littoridinops tenuipes (Epi)		405		0.00900	
Marenzelleria viridis		225		0.19800	
Oligochaeta				0.18900	
Polypedilum halterale group		90			
Procladius spp.		135			
Rangia cuneata		24660		22.95900	
Tanytarsus spp.		90			
Tubificidae imm w/o cap chaetae		6300			
Total Abundance w/ Epi.		32625			
Total Abundance w/o Epi.		32040			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				23.49225	
Total Biomass w/o Epi.				23.46975	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer	Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 10MAY2004 Time: 12: 20: 00
BOTTOM ENVIRONMENT		
Depth (m): 5.5 Dissolved Oxygen (mg/l): 4.2	Salinity (ppt): 0.10 Sediment Silt-Clay (%): 72.73	Temperature (C): 23.65 Total Carbon (%): 2.22
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
Shannon-Wiener Index	Value Score	Value Score
Abundance (#/m2)	1.27	Oligohaline Pollution Indicative Spp. Abund. 20.21
Deep Deposit Feeder Abundance (%)	26280	Tolerance Score 6.72
Carnivore-Omnivore Abundance (%)	18.49	Oligohaline Pollution Sensitive Spp. Abund. 2.57
	2.57	Tanypodinae/Chironomidae Abundance Ratio 45.45
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.00225
Chironomidae		0.00225
Coelotanypus spp.	90	0.02250
Cyathura polita	180	0.18900
Gammarus daiberi (Epi)	315	0.08100
Limnodrilus hoffmeisteri	900	
Littoridinops tenuipes (Epi)	675	0.01350
Marenzelleria viridis	675	0.48150
Oecetis spp. (Epi)	45	0.00450
Oligochaeta		0.18900
Polypedilum halterale group	225	
Procladius spp.	135	
Rangia cuneata	20025	33.92550
Tanytarsus spp.	45	
Tubificidae imm w/o cap chaetae	3690	
Tubificoides spp.	270	0.00225
Total Abundance w/ Epi.	27315	
Total Abundance w/o Epi.	26280	
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		34.91325
Total Biomass w/o Epi.		34.81425

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer	Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m	Rep: 01 Date: 19MAY2004 Time: 15:13:47
BOTTOM ENVIRONMENT		
Depth (m): 1.5 Dissolved Oxygen (mg/l): 6.8	Salinity (ppt): 0.14 Sediment Silt-Clay (%): 77.23	Temperature (C): 25.19 Total Carbon (%): 2.83
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
Shannon-Wiener Index	Value Score: 1.79	T.F. Pollution Indicative Spp. Abund. (%) 82.51
Abundance (#/m2)	30105	Tolerance Score 9.66
Deep Deposit Feeder Abundance (%)	93.27	Limnodrilus Abundance (%) 85.20
Carnivore-Omnivore Abundance (%)	4.93	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Amnicolalimosa (Epi)	45	0.20700
Arctonais lomondi	135	
Aulodrilus limnobi	135	
Branchiura sowerbyi	270	2.34450
Chironomidae		0.32400
Chironomidae pupae *	45	0.01800
Chironomus spp.	630	
Corbicula fluminea	405	20.76750
Cryptochironomus spp.	90	
Dero spp.	135	
Gammarus spp. (Epi)	405	0.03600
Harnischia spp.	90	
Ilyodrilus templetoni	540	
Limnodrilus cervix	810	
Limnodrilus hoffmeisteri	3915	
Musculium spp.	135	0.00450
Oligochaeta		3.25276
Paranais litoralis	270	
Procladius spp.	630	
Tubificidae imm w cap chaetae	945	
Tubificidae imm w/o cap chaetae	20925	
Turbellaria (Epi)	45	0.00225
Total Abundance w/ Epi.	30600	
Total Abundance w/o Epi.	30105	
Number of Taxa w/ Epi.	19	
Number of Taxa w/o Epi.	16	
Total Biomass w/ Epi.		26.95651
Total Biomass w/o Epi.		26.71126

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 02 Date: 19MAY2004 Time: 15:13:47	
BOTTOM ENVIRONMENT					
Depth (m): 1.5 Dissolved Oxygen (mg/l): 6.8		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 77.23		Temperature (C): 25.19 Total Carbon (%): 2.83	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
		Value Score		Value Score	
Shannon-Wiener Index		1.78		T.F. Pollution Indicative Spp. Abund. (%) 79.82	
Abundance (#/m2)		19845		Tolerance Score 9.65	
Deep Deposit Feeder Abundance (%)		94.56		Limnodrilus Abundance (%) 87.07	
Carnivore-Omnivore Abundance (%)		4.08			
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Aulodrilus limnobi us		180			
Aulodrilus pigueti		90			
Branchiura sowerbyi		225		0.86400	
Campeloma decium (Epi)		45		0.33750	
Chironomidae				0.00225	
Chironomus spp.		450			
Corbicula fluminea		270		6.43500	
Cryptochironomus spp.		90			
Gammarus spp. (Epi)		45		0.00225	
Ilyodrilus templetoni		360			
Limnodrilus cervix		1440			
Limnodrilus hoffmeisteri		2160			
Micropsectra spp.		45			
Oligochaeta				2.91600	
Paranais litoralis		90			
Procladius spp.		225			
Tubificidae imm w cap chaetae		540			
Tubificidae imm w/o cap chaetae		13680			
Total Abundance w/ Epi.		19935			
Total Abundance w/o Epi.		19845			
Number of Taxa w/ Epi.		16			
Number of Taxa w/o Epi.		14			
Total Biomass w/ Epi.				10.55700	
Total Biomass w/o Epi.				10.21725	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer	Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m	Rep: 03 Date: 19MAY2004 Time: 15:13:47
BOTTOM ENVIRONMENT		
Depth (m): 1.5 Dissolved Oxygen (mg/l): 6.8	Salinity (ppt): 0.14 Sediment Silt-Clay (%): 77.23	Temperature (C): 25.19 Total Carbon (%): 2.83
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
Shannon-Wiener Index	Value Score: 2.10	T.F. Pollution Indicative Spp. Abund. (%) 73.30
Abundance (#/m2)	27810	Tolerance Score 9.55
Deep Deposit Feeder Abundance (%)	93.69	Limnodrilus Abundance (%) 75.73
Carnivore-Omnivore Abundance (%)	3.72	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Arctonai s l o m o n d i	135	
Aulodrilus limnobi us	270	
Branchiura sowerbyi	540	3.36150
Chironomidae		0.10800
Chironomus spp.	450	
Coelotanypus spp.	45	0.00900
Corbicula fluminea	540	5.98950
Cryptochironomus spp.	90	
Cryptotendipes spp.	90	
Gammarus spp. (Epi)	90	0.00225
Harnischia spp.	180	
Ilyodrilus templetoni	405	
Limnodrilus cervix	675	
Limnodrilus hoffmeisteri	2565	
Musculium spp.	180	0.00450
Oligochaeta		3.32228
Paranais litoralis	135	
Pristinella spp.	540	
Procladius spp.	180	
Qui st ad r i l u s m u l t i s e t o s u s	135	
Stenelmis spp. (Epi)	45	0.02700
Tubificidae imm w cap chaetae	2835	
Tubificidae imm w/o cap chaetae	17820	
Turbellaria (Epi)	45	0.00225
Total Abundance w/ Epi.	27990	
Total Abundance w/o Epi.	27810	
Number of Taxa w/ Epi.	22	
Number of Taxa w/o Epi.	19	
Total Biomass w/ Epi.		12.82628
Total Biomass w/o Epi.		12.79478

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 24MAY2004 Time: 13:46:45	
BOTTOM ENVIRONMENT					
Depth (m): 7.3 Dissolved Oxygen (mg/l): 4.6		Salinity (ppt): 0.81 Sediment Silt-Clay (%): 96.54		Temperature (C): 23.47 Total Carbon (%): 2.74	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.16		Oligohaline Pollution Indicative Spp. Abund.	50.00	
Abundance (#/m2)	1170		Tolerance Score	7.23	
Deep Deposit Feeder Abundance (%)	7.69		Oligohaline Pollution Sensitive Spp. Abund.	42.31	
Carnivore-Omnivore Abundance (%)	11.54		Tanypodinae/Chironomidae Abundance Ratio	100.00	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00900	
Chironomidae				0.00225	
Coelotanypus spp.		90		0.05400	
Gammarus daiberi (Epi)		630		0.03150	
Leptocheirus plumulosus		360		0.02250	
Littoridinops tenuipes (Epi)		810		0.01350	
Macoma balthica		45		0.04500	
Marenzelleria viridis		495		0.60300	
Neomysis americana (Epi)		945		0.33300	
Procladius spp.		45			
Tubificoides spp.		90		0.00450	
Total Abundance w/ Epi.		3555			
Total Abundance w/o Epi.		1170			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				1.11825	
Total Biomass w/o Epi.				0.74025	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 24MAY2004 Time: 13:46:45	
BOTTOM ENVIRONMENT					
Depth (m): 7.3 Dissolved Oxygen (mg/l): 4.6		Salinity (ppt): 0.81 Sediment Silt-Clay (%): 96.54		Temperature (C): 23.47 Total Carbon (%): 2.74	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.92		Oligohaline Pollution Indicative Spp. Abund.	44.44	
Abundance (#/m ²)	1620		Tolerance Score	7.40	
Deep Deposit Feeder Abundance (%)	2.78		Oligohaline Pollution Sensitive Spp. Abund.	52.78	
Carnivore-Omnivore Abundance (%)	13.89		Tanypodinae/Chironomidae Abundance Ratio	100.00	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m ²)		Biomass (g/m ²)	
Chironomidae		45		0.00450	
Coelotanytus spp.		90		0.04950	
Gammarus daiberi (Epi)		810		0.09900	
Leptocheirus plumulosus		495		0.02250	
Littoridinops tenuipes (Epi)		1305		0.00225	
Marenzelleria viridis		810		0.76500	
Neomysis americana (Epi)		1530		0.70200	
Procladius spp.		90			
Rangia cuneata		45		0.01350	
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		5265			
Total Abundance w/o Epi.		1620			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				1.66275	
Total Biomass w/o Epi.				0.85950	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 24MAY2004 Time: 13:46:45	
BOTTOM ENVIRONMENT					
Depth (m): 7.3 Dissolved Oxygen (mg/l): 4.6		Salinity (ppt): 0.81 Sediment Silt-Clay (%): 96.54		Temperature (C): 23.47 Total Carbon (%): 2.74	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.01		Oligohaline Pollution Indicative Spp. Abund.	59.52	
Abundance (#/m2)	1890		Tolerance Score	7.23	
Deep Deposit Feeder Abundance (%)	26.19		Oligohaline Pollution Sensitive Spp. Abund.	38.10	
Carnivore-Omnivore Abundance (%)	9.52		Tanypodinae/Chironomidae Abundance Ratio	100.00	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		45		0.00225	
Chironomidae				0.00225	
Coelotanypus spp.		90		0.03600	
Cyathura polita		45		0.22950	
Gammarus daiberi (Epi)		900		0.08100	
Leptocheirus plumulosus		495		0.04950	
Littoridinops tenuipes (Epi)		1485		0.01800	
Marenzelleria viridis		720		1.14750	
Neomysis americana (Epi)		315		0.19350	
Procladius spp.		45			
Tubificoides spp.		495		0.00900	
Total Abundance w/ Epi.		4635			
Total Abundance w/o Epi.		1890			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		6			
Total Biomass w/ Epi.				1.76850	
Total Biomass w/o Epi.				1.47375	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 043 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 01 Date: 24MAY2004 Time: 12:08:21
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.7	Salinity (ppt): 3.01 Sediment Silt-Clay (%): 4.34	Temperature (C): 23.97 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.00		0.00
Abundance (#/m2)	80		0.00
Biomass (g/m2)	0.03		100.00
Carnivore-Omnivore Abundance (%)	0.00		100.00
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Littoridinops tenuipes (Epi)	80		0.00200
Marenzelleria viridis	40		0.00800
Rangia cuneata	40		0.02000
Total Abundance w/ Epi.	160		
Total Abundance w/o Epi.	80		
Number of Taxa w/ Epi.	3		
Number of Taxa w/o Epi.	2		
Total Biomass w/ Epi.			0.03000
Total Biomass w/o Epi.			0.02800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 043 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 02 Date: 24MAY2004 Time: 12:08:21	
BOTTOM ENVIRONMENT					
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.7		Salinity (ppt): 3.01 Sediment Silt-Clay (%): 4.34		Temperature (C): 23.97 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.32		Pollution Indicative Species Abundance (%)	0.00	
Abundance (#/m2)	11080		Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	1.80		Pollution Sensitive Species Abundance (%)	76.17	
Carnivore-Omnivore Abundance (%)	0.36		Pollution Sensitive Species Biomass (%)	59.56	
Deep Deposit Feeder Abundance (%)	1.08				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		40		0.00200	
Apocorophium lacustre (Epi)		120		0.00200	
Carinoma tremaphoros		40		0.17200	
Gammarus spp. (Epi)		40		0.00200	
Heteromastus filiformis		80		0.12400	
Leptocheirus plumulosus		2440		0.42800	
Marenzelleria viridis		7440		0.99600	
Odostomia engonia (Epi)		1480		0.04800	
Rangia cuneata		1000		0.07600	
Tubificoides spp.		40		0.00200	
Total Abundance w/ Epi.		12720			
Total Abundance w/o Epi.		11080			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				1.85200	
Total Biomass w/o Epi.				1.80000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 043 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 03 Date: 24MAY2004 Time: 12:08:21
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.7		Salinity (ppt): 3.01 Sediment Silt-Clay (%): 4.34	Temperature (C): 23.97 Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.41		0.00
Abundance (#/m2)	21600	Pollution Indicative Species Abundance (%)	0.00
Biomass (g/m2)	4.61	Pollution Indicative Species Biomass (%)	0.00
Carnivore-Omnivore Abundance (%)	1.30	Pollution Sensitive Species Abundance (%)	75.37
Deep Deposit Feeder Abundance (%)	0.93	Pollution Sensitive Species Biomass (%)	58.58
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	80	0.00400	
Apocorophium lacustre (Epi)	120	0.02000	
Carinoma tremaphoros	80	0.24400	
Chiridotea almyra	40	0.00200	
Gammarus dalberi (Epi)	80	0.00200	
Gemma gemma	40	0.00200	
Geukensia demissa (Epi)	120	0.00200	
Heteromastus filiformis	200	0.46800	
Leptocheirus plumulosus	4720	0.96800	
Littoridinops tenuipes (Epi)	4400	0.17600	
Macoma balthica	40	0.00200	
Marenzelleria viridis	14320	2.35600	
Micrura lei dyi	40	0.08000	
Neanthes succinea	120	0.14000	
Rangia cuneata	1920	0.34000	
Total Abundance w/ Epi.	26320		
Total Abundance w/o Epi.	21600		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		4.80600	
Total Biomass w/o Epi.		4.60600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 24MAY2004 Time: 12:43:17	
BOTTOM ENVIRONMENT					
Depth (m): 12.0 Dissolved Oxygen (mg/l): 2.2		Salinity (ppt): 6.08 Sediment Silt-Clay (%): 92.17		Temperature (C): 19.99 Total Carbon (%): 2.08	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.58		Pollution Indicative Species Abundance (%)	0.00	
Abundance (#/m2)	19350		Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	3.65		Pollution Sensitive Species Abundance (%)	59.07	
Carnivore-Omnivore Abundance (%)	0.23		Pollution Sensitive Species Biomass (%)	86.12	
Deep Deposit Feeder Abundance (%)	9.30				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Edwardsia elegans		45		0.00225	
Gammarus dalberi (Epi)		1935		0.22500	
Heteromastus filiformis		45		0.00900	
Leptocheirus plumulosus		6075		0.45000	
Littoridinops tenuipes (Epi)		3015		0.04500	
Macoma balthica		10530		2.30400	
Marenzelleria viridis		810		0.83250	
Melitaniida (Epi)		45		0.00900	
Rangia cuneata		90		0.00450	
Tubificoides spp.		1755		0.04500	
Total Abundance w/ Epi.		24345			
Total Abundance w/o Epi.		19350			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				3.92625	
Total Biomass w/o Epi.				3.64725	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 24MAY2004 Time: 12:43:17
BOTTOM ENVIRONMENT			
Depth (m): 12.0 Dissolved Oxygen (mg/l): 2.2		Salinity (ppt): 6.08 Sediment Silt-Clay (%): 92.17	Temperature (C): 19.99 Total Carbon (%): 2.08
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.81		0.24
Abundance (#/m2)	18900		0.07
Biomass (g/m2)	3.31		56.67
Carnivore-Omnivore Abundance (%)	0.71		64.81
Deep Deposit Feeder Abundance (%)	9.29		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00450	
Apocorophium lacustre (Epi)	45	0.00450	
Carinoma tremaphoros	45	0.02700	
Chaoborus punctipennis	45	0.00450	
Gammarus dalberi (Epi)	1530	0.18450	
Heteromastus filiformis	45	0.00225	
Hydrobia truncata (Epi)	45	0.00450	
Leptocheirus plumosus	6210	0.41850	
Littoridinops tenuipes (Epi)	1620	0.02700	
Macoma balthica	9180	1.37700	
Marenzelleria viridis	1305	0.76500	
Neanthes succinea	45	0.66600	
Odostomia engonia (Epi)	45	0.00900	
Rangia cuneata	225	0.00450	
Streblospio benedicti	45	0.00225	
Tubificoides spp.	1710	0.04050	
Total Abundance w/ Epi.	22185		
Total Abundance w/o Epi.	18900		
Number of Taxa w/ Epi.	16		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		3.54150	
Total Biomass w/o Epi.		3.31200	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 24MAY2004 Time: 12:43:17
BOTTOM ENVIRONMENT			
Depth (m): 12.0 Dissolved Oxygen (mg/l): 2.2		Salinity (ppt): 6.08 Sediment Silt-Clay (%): 92.17	Temperature (C): 19.99 Total Carbon (%): 2.08
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.74		0.54
Abundance (#/m2)	16695		0.05
Biomass (g/m2)	4.23		50.94
Carnivore-Omnivore Abundance (%)	1.08		81.49
Deep Deposit Feeder Abundance (%)	13.48		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Apocorophium lacustre (Epi)	90	0.00225	
Carinoma tremaphoros	45	0.23850	
Cyathura polita	45	0.13950	
Edwardsia elegans	45	0.00225	
Gammarus dalberi (Epi)	2565	0.36000	
Leptocheirus plumulosus	5715	0.45450	
Littoridinops tenuipes (Epi)	1080	0.00900	
Macoma balthica	7920	2.29500	
Marenzelleria viridis	495	0.99900	
Melitanitida (Epi)	45	0.00450	
Neanthes succinea	45	0.02700	
Rangia cuneata	45	0.01350	
Streblospio benedicti	90	0.00225	
Tubificoides spp.	2250	0.05850	
Total Abundance w/ Epi.	20475		
Total Abundance w/o Epi.	16695		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		4.60575	
Total Biomass w/o Epi.		4.23000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 01 Date: 24MAY2004 Time: 11:15:17
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.9	Salinity (ppt): 3.81 Sediment Silt-Clay (%): 5.42	Temperature (C): 24.40 Total Carbon (%): 0.25	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.51		0.00
Abundance (#/m2)	29600		0.00
Biomass (g/m2)	25.24		85.00
Carnivore-Omnivore Abundance (%)	0.95		91.50
Deep Deposit Feeder Abundance (%)	3.92		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	200	0.02800	
Apocorophium lacustre (Epi)	120	0.00400	
Carinoma tremaphoros	160	1.17200	
Edotea triloba (Epi)	200	0.02400	
Heteromastus filiformis	400	0.33600	
Leptocheirus plumulosus	2800	0.29200	
Littoridinops tenuipes (Epi)	8400	0.38800	
Macoma balthica	120	5.09200	
Marenzelleria viridis	20080	5.28000	
Micrura lei dyi	40	0.16400	
Neanthes succinea	80	0.13600	
Rangia cuneata	4960	12.72000	
Tubificoides spp.	760	0.01600	
Total Abundance w/ Epi.	38320		
Total Abundance w/o Epi.	29600		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		25.65200	
Total Biomass w/o Epi.		25.23600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 02 Date: 24MAY2004 Time: 11:15:17
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.9	Salinity (ppt): 3.81 Sediment Silt-Clay (%): 5.42	Temperature (C): 24.40 Total Carbon (%): 0.25	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.60		0.00
Abundance (#/m2)	38920		0.00
Biomass (g/m2)	13.53		82.22
Carnivore-Omnivore Abundance (%)	1.44		71.92
Deep Deposit Feeder Abundance (%)	7.09		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Apocorophium lacustre (Epi)	120	0.00400	
Carinoma tremaphoros	320	2.12400	
Edotea triloba (Epi)	280	0.02400	
Heteromastus filiformis	440	0.33600	
Laonereis culveri	40	0.00200	
Leptocheirus plumulosus	3600	0.46000	
Littoridinops tenuipes (Epi)	9360	0.41600	
Macoma balthica	120	1.52000	
Marenzelleria viridis	25400	5.95200	
Neanthes succinea	200	0.84400	
Rangia cuneata	6480	2.25600	
Tubificoides spp.	2320	0.03200	
Total Abundance w/ Epi.	48680		
Total Abundance w/o Epi.	38920		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		13.97000	
Total Biomass w/o Epi.		13.52600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 03 Date: 24MAY2004 Time: 11:15:17
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.9	Salinity (ppt): 3.81 Sediment Silt-Clay (%): 5.42	Temperature (C): 24.40 Total Carbon (%): 0.25	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.52		0.14
Abundance (#/m2)	27640		0.02
Biomass (g/m2)	11.45		79.74
Carnivore-Omnivore Abundance (%)	0.72		83.63
Deep Deposit Feeder Abundance (%)	7.67		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Apocorophium lacustre (Epi)	80	0.00400	
Carinoma tremaphoros	80	0.64800	
Chiridotea almyra	40	0.00400	
Edotea triloba (Epi)	160	0.00400	
Heteromastus filiformis	400	0.50400	
Leptocheirus plumulosus	3240	0.39600	
Littoridinops tenuipes (Epi)	1720	0.08800	
Macoma balthica	120	0.22000	
Marenzelleria viridis	19040	4.86400	
Neanthes succinea	80	0.30400	
Rangia cuneata	2880	4.48800	
Streblospio benedicti	40	0.00200	
Tubificoides spp.	1720	0.01600	
Total Abundance w/ Epi.	29600		
Total Abundance w/o Epi.	27640		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		11.54200	
Total Biomass w/o Epi.		11.44600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 051 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 24MAY2004 Time: 17:06:15
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.7		Salinity (ppt): 7.10 Sediment Silt-Clay (%): 1.91	Temperature (C): 22.12 Total Carbon (%): 0.1
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.77		0.83
Abundance (#/m2)	14400		19.73
Biomass (g/m2)	4.66		44.17
Carnivore-Omnivore Abundance (%)	2.22		21.01
Deep Deposit Feeder Abundance (%)	8.06		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	200	0.02400	
Carinoma tremaphoros	40	0.00200	
Chironomidae		0.00200	
Cryptochironomus spp.	40		
Cyathura polita	40	0.02000	
Geukensia demissa (Epi)	200	0.00400	
Heteromastus filiformis	1040	0.14000	
Laeonereis culveri	120	0.77200	
Leitoscoloplos robustus	120	0.92000	
Lepidocylus dytiscus	40	0.01200	
Leptocheirus plumulosus	6280	1.16800	
Macoma mitchelli	80	0.00800	
Marenzelleria viridis	6160	0.93600	
Micrura leidy	40	0.29600	
Neanthes succinea	40	0.34000	
Rangia cuneata	160	0.02400	
Total Abundance w/ Epi.	14600		
Total Abundance w/o Epi.	14400		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.		4.66800	
Total Biomass w/o Epi.		4.66400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 051 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 02 Date: 24MAY2004 Time: 17:06:15
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.7	Salinity (ppt): 7.10 Sediment Silt-Clay (%): 1.91	Temperature (C): 22.12 Total Carbon (%): 0.1	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.80		0.67
Abundance (#/m2)	12000		11.96
Biomass (g/m2)	2.83		33.67
Carnivore-Omnivore Abundance (%)	0.67		39.21
Deep Deposit Feeder Abundance (%)	10.67		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	200	0.02400	
Edotea triloba (Epi)	160	0.00200	
Geukensia demissa (Epi)	120	0.00400	
Heteromastus filiformis	1240	0.09200	
Laonereis culveri	80	0.25600	
Leitoscoloplos fragilis	40	0.33600	
Leptocheirus plumulosus	6360	1.00800	
Littoridinops tenuipes (Epi)	40	0.00200	
Macoma balthica	80	0.04400	
Marenzelleria viridis	3440	1.01200	
Mya arenaria	40	0.01200	
Rangia cuneata	480	0.04000	
Streblospio benedicti	40	0.00200	
Total Abundance w/ Epi.	12320		
Total Abundance w/o Epi.	12000		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		2.83400	
Total Biomass w/o Epi.		2.82600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 051 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 03 Date: 24MAY2004 Time: 17:06:15
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.7	Salinity (ppt): 7.10 Sediment Silt-Clay (%): 1.91	Temperature (C): 22.12 Total Carbon (%): 0.1	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.73		0.49
Abundance (#/m2)	16200		16.50
Biomass (g/m2)	4.63		53.09
Carnivore-Omnivore Abundance (%)	0.99		35.16
Deep Deposit Feeder Abundance (%)	5.93		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	160	0.00800	
Geukensia demissa (Epi)	120	0.01200	
Heteromastus filiformis	840	0.14400	
Laonereis culveri	160	1.06800	
Leitoscoloplos robustus	80	0.76400	
Lepidactylus dytiscus	40	0.01200	
Leptocheirus plumulosus	6160	0.87600	
Macoma mitchelli	120	0.12800	
Marenzelleria viridis	7920	1.42800	
Mya arenaria	40	0.00400	
Rangia cuneata	640	0.19600	
Tubificoides spp.	40	0.00200	
Total Abundance w/ Epi.	16320		
Total Abundance w/o Epi.	16200		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		4.64200	
Total Biomass w/o Epi.		4.63000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 052 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 01 Date: 24MAY2004 Time: 16:28:13	
BOTTOM ENVIRONMENT					
Depth (m): 12.8 Dissolved Oxygen (mg/l): 1.0		Salinity (ppt): 9.92 Sediment Silt-Clay (%): 90.65		Temperature (C): 17.40 Total Carbon (%): 3.07	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.28		Pollution Indicative Species Abundance (%)	8.91	
Abundance (#/m2)	4545		Pollution Indicative Species Biomass (%)	3.70	
Biomass (g/m2)	0.43		Pollution Sensitive Species Abundance (%)	21.78	
Carnivore-Omnivore Abundance (%)	0.99		Pollution Sensitive Species Biomass (%)	25.40	
Deep Deposit Feeder Abundance (%)	0.99				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Eteone heteropoda		45		0.01350	
Gammarus dalberi (Epi)		225		0.03600	
Heteromastus filiformis		45		0.00450	
Leptocheirus plumulosus		3105		0.29700	
Littoridinops tenuipes (Epi)		180		0.00225	
Macoma balthica		990		0.10800	
Streblospio benedicti		360		0.00225	
Total Abundance w/ Epi.		4950			
Total Abundance w/o Epi.		4545			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				0.46350	
Total Biomass w/o Epi.				0.42525	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 052 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq.m	Rep: 02 Date: 24MAY2004 Time: 16:28:13
BOTTOM ENVIRONMENT			
Depth (m): 12.8 Dissolved Oxygen (mg/l): 1.0		Salinity (ppt): 9.92 Sediment Silt-Clay (%): 90.65	Temperature (C): 17.40 Total Carbon (%): 3.07
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.17		3.17
Abundance (#/m2)	2835		0.60
Biomass (g/m2)	1.49		12.70
Carnivore-Omnivore Abundance (%)	0.00		2.11
Deep Deposit Feeder Abundance (%)	1.59		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00450	
Gammarus dalberi (Epi)	180	0.01800	
Heteromastus filiformis	45	0.00450	
Leptocheirus plumulosus	2205	0.37800	
Macoma balthica	360	0.03150	
Macoma mitchelli	90	1.06200	
Streblospio benedicti	90	0.00900	
Total Abundance w/ Epi.	3015		
Total Abundance w/o Epi.	2835		
Number of Taxa w/ Epi.	7		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		1.50750	
Total Biomass w/o Epi.		1.48950	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 052 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 03 Date: 24MAY2004 Time: 16:28:13
BOTTOM ENVIRONMENT			
Depth (m): 12.8 Dissolved Oxygen (mg/l): 1.0		Salinity (ppt): 9.92 Sediment Silt-Clay (%): 90.65	Temperature (C): 17.40 Total Carbon (%): 3.07
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.53		12.15
Abundance (#/m2)	4815		3.23
Biomass (g/m2)	0.97		14.95
Carnivore-Omnivore Abundance (%)	3.74		21.02
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00225	
Chironomidae		0.00225	
Cryptochironomus spp.	45		
Eteone heteropoda	90	0.00450	
Gammarus dalberi (Epi)	135	0.00900	
Leptocheirus plumulosus	3330	0.36900	
Macoma balthica	675	0.20250	
Macoma mitchelli	45	0.31050	
Marenzelleria viridis	45	0.00225	
Neanthes succinea	45	0.05400	
Streblospio benedicti	495	0.02700	
Total Abundance w/ Epi.	4950		
Total Abundance w/o Epi.	4815		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		0.98325	
Total Biomass w/o Epi.		0.97425	

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BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar		Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 01 Date: 18MAY2004 Time: 9:24:27
BOTTOM ENVIRONMENT			
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.5		Salinity (ppt): 2.14 Sediment Silt-Clay (%): 96.26	Temperature (C): 24.58 Total Carbon (%): 3.66
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.19		0.00
Abundance (#/m2)	51880	Pollution Indicative Species Abundance (%)	0.00
Biomass (g/m2)	6.57	Pollution Indicative Species Biomass (%)	0.00
Carnivore-Omnivore Abundance (%)	0.39	Pollution Sensitive Species Abundance (%)	69.85
Deep Deposit Feeder Abundance (%)	24.29	Pollution Sensitive Species Biomass (%)	93.03
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	1520	0.06800	
Apocorophium lacustre (Epi)	40	0.00200	
Chironomus almyra	80	0.00200	
Cyathura polita	120	0.02800	
Edotea triloba (Epi)	40	0.01600	
Gammarus daiberi (Epi)	400	0.18400	
Leptocheirus plumulosus	1440	0.06800	
Marenzelleria viridis	36120	6.08800	
Tubificoides spp.	12600	0.32000	
Total Abundance w/ Epi.	52360		
Total Abundance w/o Epi.	51880		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		6.77600	
Total Biomass w/o Epi.		6.57400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar		Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 02 Date: 18MAY2004 Time: 9:24:27
BOTTOM ENVIRONMENT			
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.5		Salinity (ppt): 2.14 Sediment Silt-Clay (%): 96.26	Temperature (C): 24.58 Total Carbon (%): 3.66
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.04		0.44
Abundance (#/m2)	36160	Pollution Indicative Species Abundance (%)	0.07
Biomass (g/m2)	5.35	Pollution Indicative Species Biomass (%)	75.11
Carnivore-Omnivore Abundance (%)	0.11	Pollution Sensitive Species Abundance (%)	94.14
Deep Deposit Feeder Abundance (%)	20.91	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	720	0.06000	
Cyathura polita	40	0.04800	
Gammarus daiberi (Epi)	120	0.06400	
Leptocheirus plumulosus	600	0.05600	
Marenzelleria viridis	27120	4.99200	
Melita nitida (Epi)	40	0.01200	
Oligochaeta		0.00200	
Streblospio benedicti	120	0.00400	
Tubificidae imm w/o cap chaetae	40		
Tubificoides spp.	7520	0.19200	
Total Abundance w/ Epi.	36320		
Total Abundance w/o Epi.	36160		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.		5.43000	
Total Biomass w/o Epi.		5.35400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar	Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq.m	Rep: 03 Date: 18MAY2004 Time: 9:24:27
BOTTOM ENVIRONMENT		
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.5	Salinity (ppt): 2.14 Sediment Silt-Clay (%): 96.26	Temperature (C): 24.58 Total Carbon (%): 3.66
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.95	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	53440	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	6.94	Pollution Sensitive Species Abundance (%) 74.18
Carnivore-Omnivore Abundance (%)	0.00	Pollution Sensitive Species Biomass (%) 94.49
Deep Deposit Feeder Abundance (%)	23.80	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	400	0.01600
Gammarus dalberi (Epi)	200	0.13600
Heteromastus filiformis	40	0.00200
Leptocheirus plumosus	680	0.05200
Marenzelleria viridis	39640	6.55600
Tubificoides spp.	12680	0.31200
Total Abundance w/ Epi.	53640	
Total Abundance w/o Epi.	53440	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	5	
Total Biomass w/ Epi.		7.07400
Total Biomass w/o Epi.		6.93800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 01 Date: 18MAY2004 Time: 11:49:39
BOTTOM ENVIRONMENT			
Depth (m): 10.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 8.31 Sediment Silt-Clay (%): 91.60	Temperature (C): 22.95 Total Carbon (%): 2.01
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.37		5.87
Abundance (#/m2)	34470		1.33
Biomass (g/m2)	7.78		2.22
Carnivore-Omnivore Abundance (%)	1.17		47.95
Deep Deposit Feeder Abundance (%)	21.28		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.02700	
Carinoma tremaphoros	45	0.04950	
Gammarus daiberi (Epi)	1710	0.13950	
Heteromastus filiformis	90	0.18000	
Leptocheirus plumulosus	23715	2.07450	
Littoridinops tenuipes (Epi)	45	0.00225	
Macoma balthica	675	3.46500	
Marenzelleria viridis	45	0.00900	
Mya arenaria	45	0.25650	
Neanthes succinea	360	1.38600	
Streblospio benedicti	2025	0.10350	
Tubificoides spp.	7245	0.22950	
Total Abundance w/ Epi.	36225		
Total Abundance w/o Epi.	34470		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		7.92225	
Total Biomass w/o Epi.		7.78050	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 02 Date: 18MAY2004 Time: 11:49:39
BOTTOM ENVIRONMENT			
Depth (m): 10.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 8.31 Sediment Silt-Clay (%): 91.60	Temperature (C): 22.95 Total Carbon (%): 2.01
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.54		9.44
Abundance (#/m2)	45765		3.36
Biomass (g/m2)	6.43		2.85
Carnivore-Omnivore Abundance (%)	0.88		41.53
Deep Deposit Feeder Abundance (%)	23.60		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.01350	
Carinoma tremaphoros	45	0.24750	
Eteone heteropoda	45	0.00450	
Gammarus daiberi (Epi)	3015	0.15300	
Heteromastus filiformis	135	0.00450	
Leptocheirus plumulosus	28620	2.52900	
Macoma balthica	1260	2.64150	
Macoma mitchelli	135	0.00900	
Melita nitida (Epi)	45	0.00450	
Mya arenaria	45	0.02700	
Neanthes succinea	315	0.40500	
Streblospio benedicti	4275	0.21150	
Tubificoides spp.	10665	0.33300	
Total Abundance w/ Epi.	48825		
Total Abundance w/o Epi.	45765		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		6.58350	
Total Biomass w/o Epi.		6.42600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 03 Date: 18MAY2004 Time: 11:49:39
BOTTOM ENVIRONMENT			
Depth (m): 10.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 8.31 Sediment Silt-Clay (%): 91.60	Temperature (C): 22.95 Total Carbon (%): 2.01
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.31		6.88
Abundance (#/m2)	36000		2.17
Biomass (g/m2)	5.49		2.50
Carnivore-Omnivore Abundance (%)	1.00		49.53
Deep Deposit Feeder Abundance (%)	19.25		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Edotea triloba (Epi)	45	0.00225	
Eteone heteropoda	45	0.00225	
Gammarus daiberi (Epi)	2385	0.11700	
Heteromastus filiformis	90	0.01350	
Leptocheirus plumulosus	25380	2.03400	
Macoma balthica	855	2.70000	
Marenzelleria viridis	45	0.01800	
Neanthes succinea	270	0.37800	
Nemertea	45	0.01800	
Streblospio benedicti	2430	0.11700	
Tubificoides spp.	6840	0.20700	
Total Abundance w/ Epi.	38430		
Total Abundance w/o Epi.	36000		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		5.60700	
Total Biomass w/o Epi.		5.48775	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 18MAY2004 Time: 13:36:14	
BOTTOM ENVIRONMENT					
Depth (m): 3.5 Dissolved Oxygen (mg/l): 7.7		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 71.50		Temperature (C): 25.80 Total Carbon (%): 2.99	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
Shannon-Wiener Index		Value	Score	Value	
Abundance (#/m2)		2.74		Oligohaline Pollution Indicative Spp. Abund.	65.71
Deep Deposit Feeder Abundance (%)		1575		Tolerance Score	7.95
Carnivore-Omnivore Abundance (%)		37.14		Oligohaline Pollution Sensitive Spp. Abund.	28.57
		28.57		Tanypodinae/Chironomidae Abundance Ratio	66.67
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Bezzia spp.		45		0.00450	
Chironomidae				0.00225	
Coelotanypus spp.		270		0.04050	
Gammarus daiberi (Epi)		4275		0.28350	
Harnischia spp.		45			
Leptocheirus plumulosus		90		0.00450	
Limnodrilus hoffmeisteri		45			
Littoridinops tenuipes (Epi)		90		0.00225	
Marenzelleria viridis		450		0.16200	
Oligochaeta				0.00225	
Polypedilum halterale group		90			
Tubificidae imm w/o cap chaetae		270			
Tubificoides spp.		270		0.00225	
Total Abundance w/ Epi.		5940			
Total Abundance w/o Epi.		1575			
Number of Taxa w/ Epi.		11			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				0.50400	
Total Biomass w/o Epi.				0.21825	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 18MAY2004 Time: 13:36:14	
BOTTOM ENVIRONMENT					
Depth (m): 3.5 Dissolved Oxygen (mg/l): 7.7		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 71.50		Temperature (C): 25.80 Total Carbon (%): 2.99	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
Shannon-Wiener Index		Value	Score	Value	
Abundance (#/m2)		2.60		Oligohaline Pollution Indicative Spp. Abund.	63.04
Deep Deposit Feeder Abundance (%)		2070		Tolerance Score	8.49
Carnivore-Omnivore Abundance (%)		32.61		Oligohaline Pollution Sensitive Spp. Abund.	36.96
		19.57		Tanypodinae/Chironomidae Abundance Ratio	33.33
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00225	
Coelotanypus spp.		135		0.03150	
Corbicula fluminea		180		0.64350	
Gammarus daiberi (Epi)		4455		0.27450	
Leptocheirus plumulosus		45		0.01350	
Limnodrilus hoffmeisteri		180			
Littoridinops tenuipes (Epi)		765		0.00900	
Marenzelleria viridis		765		0.24750	
Oligochaeta				0.00225	
Polypedilum halterale group		270			
Tubificidae imm w/o cap chaetae		360			
Tubificoides spp.		135		0.00225	
Total Abundance w/ Epi.		7290			
Total Abundance w/o Epi.		2070			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				1.22625	
Total Biomass w/o Epi.				0.94275	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 18MAY2004 Time: 13:36:14	
BOTTOM ENVIRONMENT					
Depth (m): 3.5 Dissolved Oxygen (mg/l): 7.7		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 71.50		Temperature (C): 25.80 Total Carbon (%): 2.99	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.18		Oligohaline Pollution Indicative Spp. Abund.	39.22	
Abundance (#/m2)	2295		Tolerance Score	9.01	
Deep Deposit Feeder Abundance (%)	29.41		Oligohaline Pollution Sensitive Spp. Abund.	54.90	
Carnivore-Omnivore Abundance (%)	5.88		Tanyponidae/Chironomidae Abundance Ratio	33.33	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Ameroculodes species complex	45		0.00225		
Chironomidae pupae *	90		0.01350		
Coelotanypus spp.	45		0.00225		
Corbicula fluminea	45		0.01800		
Gammarus daiberi (Epi)	5085		0.35100		
Leptocheirus plumulosus	135		0.00225		
Limnodrilus hoffmeisteri	135		0.00225		
Littoridinops tenuipes (Epi)	180		0.00225		
Marenzelleria viridis	1260		0.36000		
Oligochaeta	180		0.00225		
Tubificidae imm w/o cap chaetae	180		0.00225		
Tubificoides spp.	360		0.00450		
Total Abundance w/ Epi.	7560		0.75825		
Total Abundance w/o Epi.	2295		0.40500		
Number of Taxa w/ Epi.	10				
Number of Taxa w/o Epi.	8				
Total Biomass w/ Epi.			0.75825		
Total Biomass w/o Epi.			0.40500		

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 18MAY2004 Time: 15:59:59	
BOTTOM ENVIRONMENT					
Depth (m): 4.4 Dissolved Oxygen (mg/l): 7.9		Salinity (ppt): 5.16 Sediment Silt-Clay (%): 59.41		Temperature (C): 25.31 Total Carbon (%): 2.13	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
		Value	Score	Value	Score
Shannon-Wiener Index		2.18		0.68	
Abundance (#/m2)		6570		0.00	
Biomass (g/m2)		4.36		24.66	
Carnivore-Omnivore Abundance (%)		7.53		96.24	
Deep Deposit Feeder Abundance (%)		54.11			
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		90		0.01800	
Chiridotea almyra		135		0.00900	
Cyathura polita		270		0.78750	
Edotea triloba (Epi)		315		0.08100	
Gammarus daiberi (Epi)		495		0.04950	
Heteromastus filiformis		90		0.04950	
Leptocheirus plumulosus		1170		0.05400	
Littoridinops tenuipes (Epi)		945		0.02250	
Macoma balthica		855		2.14650	
Marenzelleria viridis		360		1.01700	
Oligochaeta				0.00225	
Rangia cuneata		135		0.24750	
Tubificidae imm w/o cap chaetae		45			
Tubificoides spp.		3420		0.03150	
Total Abundance w/ Epi.		8325			
Total Abundance w/o Epi.		6570			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		10			
Total Biomass w/ Epi.				4.51575	
Total Biomass w/o Epi.				4.36275	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer	Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 18MAY2004 Time: 15:59:59
BOTTOM ENVIRONMENT		
Depth (m): 4.4 Dissolved Oxygen (mg/l): 7.9	Salinity (ppt): 5.16 Sediment Silt-Clay (%): 59.41	Temperature (C): 25.31 Total Carbon (%): 2.13
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value	Score
Shannon-Wiener Index	1.90	Pollution Indicative Species Abundance (%) 4.21
Abundance (#/m2)	20295	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	23.57	Pollution Sensitive Species Abundance (%) 12.64
Carnivore-Omnivore Abundance (%)	5.32	Pollution Sensitive Species Biomass (%) 96.79
Deep Deposit Feeder Abundance (%)	71.40	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	270	0.00900
Carinoma tremaphoros	90	0.22050
Chiridotea almyra	540	0.03150
Chironomidae		0.00225
Cryptochironomus spp.	45	
Cyathura polita	405	0.26100
Edotea triloba (Epi)	90	0.00900
Gammarus dalberi (Epi)	585	0.05850
Heteromastus filiformis	135	0.17550
Leptocheirus plumulosus	2205	0.08100
Littoridinops tenuipes (Epi)	225	0.00450
Macoma balthica	1170	18.10800
Macoma mitchelli	90	0.06750
Marenzelleria viridis	585	2.19600
Neomysis americana (Epi)	90	0.00225
Oligochaeta		0.00225
Rangia cuneata	405	2.24550
Tubificidae imm w/o cap chaetae	855	
Tubificoides spp.	13500	0.16650
Total Abundance w/ Epi.	21285	
Total Abundance w/o Epi.	20295	
Number of Taxa w/ Epi.	17	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		23.64075
Total Biomass w/o Epi.		23.56650

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 18MAY2004 Time: 15:59:59
BOTTOM ENVIRONMENT			
Depth (m): 4.4 Dissolved Oxygen (mg/l): 7.9	Salinity (ppt): 5.16 Sediment Silt-Clay (%): 59.41	Temperature (C): 25.31 Total Carbon (%): 2.13	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.15		2.82
Abundance (#/m2)	15930		0.01
Biomass (g/m2)	22.87		18.93
Carnivore-Omnivore Abundance (%)	7.06		96.73
Deep Deposit Feeder Abundance (%)	63.28		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.02250	
Carinoma tremaphoros	90	0.05400	
Chiridotea almyra	450	0.02700	
Cyathura polita	585	1.47600	
Edotea triloba (Epi)	315	0.04500	
Gammarus daiberi (Epi)	810	0.08100	
Heteromastus filiformis	135	0.25650	
Leptocheirus plumosus	1935	0.09900	
Littoridinops tenuipes (Epi)	90	0.00225	
Macoma balthica	1395	15.95700	
Macoma mitchelli	90	0.17550	
Marenzelleria viridis	540	2.32650	
Oligochaeta		0.00225	
Rangia cuneata	495	2.36700	
Streblospio benedicti	45	0.00225	
Tubificidae imm w/o cap chaetae	405		
Tubificoides spp.	9540	0.10800	
Total Abundance w/ Epi.	17145		
Total Abundance w/o Epi.	15930		
Number of Taxa w/ Epi.	16		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		23.00175	
Total Biomass w/o Epi.		22.87350	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 01 Date: 19MAY2004 Time: 8:58:40
BOTTOM ENVIRONMENT			
Depth (m): 12.7 Dissolved Oxygen (mg/l): 3.3		Salinity (ppt): 9.80 Sediment Silt-Clay (%): 94.68	Temperature (C): 19.09 Total Carbon (%): 3.76
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.97		9.27
Abundance (#/m2)	16020	Pollution Indicative Species Abundance (%)	8.89
Biomass (g/m2)	6.76	Pollution Indicative Species Biomass (%)	2.53
Carnivore-Omnivore Abundance (%)	0.84	Pollution Sensitive Species Abundance (%)	0.33
Deep Deposit Feeder Abundance (%)	1.40	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00450	
Apocorophium lacustre (Epi)	45	0.00225	
Chironomidae		0.00225	
Chironomus spp.	45		
Eteone heteropoda	45	0.00225	
Heteromastus filiformis	45	0.04050	
Leptocheirus plumulosus	13545	2.40300	
Macoma balthica	405	0.02250	
Macoma mitchelli	270	3.31650	
Mulinia lateralis	90	0.56250	
Neanthes succinea	45	0.36450	
Streblospio benedicti	1305	0.03600	
Tubificoides spp.	180	0.00450	
Total Abundance w/ Epi.	16065		
Total Abundance w/o Epi.	16020		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		6.76125	
Total Biomass w/o Epi.		6.75900	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 02 Date: 19MAY2004 Time: 8:58:40
BOTTOM ENVIRONMENT			
Depth (m): 12.7 Dissolved Oxygen (mg/l): 3.3		Salinity (ppt): 9.80 Sediment Silt-Clay (%): 94.68	Temperature (C): 19.09 Total Carbon (%): 3.76
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.28		12.76
Abundance (#/m2)	13050		5.33
Biomass (g/m2)	4.73		3.45
Carnivore-Omnivore Abundance (%)	1.72		0.48
Deep Deposit Feeder Abundance (%)	2.41		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.00225	
Eteone heteropoda	135	0.04050	
Gammarus daiberi (Epi)	270	0.05850	
Glycinde solitaria	45	0.01350	
Heteromastus filiformis	90	1.35900	
Leptocheirus plumulosus	10170	1.89000	
Macoma balthica	405	0.00900	
Macoma mitchelli	315	1.06650	
Mulinia lateralis	45	0.17100	
Neanthes succinea	45	0.13500	
Streblospio benedicti	1485	0.04050	
Tubificoides spp.	225	0.00450	
Turbellaria (Epi)	45	0.00450	
Total Abundance w/ Epi.	13365		
Total Abundance w/o Epi.	13050		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		4.79475	
Total Biomass w/o Epi.		4.73175	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m	Rep: 03 Date: 19MAY2004 Time: 8:58:40
BOTTOM ENVIRONMENT			
Depth (m): 12.7 Dissolved Oxygen (mg/l): 3.3		Salinity (ppt): 9.80 Sediment Silt-Clay (%): 94.68	Temperature (C): 19.09 Total Carbon (%): 3.76
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.90		4.52
Abundance (#/m2)	20925		0.73
Biomass (g/m2)	5.56		4.30
Carnivore-Omnivore Abundance (%)	1.29		4.37
Deep Deposit Feeder Abundance (%)	1.94		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	135	0.02250	
Carinoma tremaphoros	90	0.58500	
Edotea triloba (Epi)	90	0.00900	
Eteone heteropoda	90	0.01800	
Gammarus dalberi (Epi)	45	0.00225	
Geukensia demissa (Epi)	45	0.00225	
Glycinde solitaria	45	0.00450	
Heteromastus filiformis	90	0.00225	
Leptocheirus plumulosus	18180	2.05650	
Macoma balthica	855	0.23850	
Macoma mitchelli	225	2.51550	
Neanthes succinea	45	0.09450	
Streblospio benedicti	855	0.02250	
Tubificoides spp.	315	0.00450	
Total Abundance w/ Epi.	21105		
Total Abundance w/o Epi.	20925		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		5.57775	
Total Biomass w/o Epi.		5.56425	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 19MAY2004 Time: 9:55:15
BOTTOM ENVIRONMENT			
Depth (m): 2.4 Dissolved Oxygen (mg/l): 5.5		Salinity (ppt): 3.03 Sediment Silt-Clay (%): 91.19	Temperature (C): 25.45 Total Carbon (%): 3.02
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.49		2.52
Abundance (#/m2)	85635	Pollution Indicative Species Abundance (%)	0.44
Biomass (g/m2)	29.96	Pollution Indicative Species Biomass (%)	4.78
Carnivore-Omnivore Abundance (%)	1.52	Pollution Sensitive Species Abundance (%)	72.04
Deep Deposit Feeder Abundance (%)	63.69	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	360	0.01800	
Apocorophium lacustre (Epi)	270	0.00450	
Carinoma tremaphoros	225	0.68850	
Chironomidae		0.00225	
Coelotanypus spp.	45	0.08100	
Cryptochironomus spp.	45		
Cyathura polita	405	0.34200	
Edotea triloba (Epi)	180	0.00450	
Gammarus daiberi (Epi)	3735	0.66150	
Heteromastus filiformis	45	0.00225	
Leptocheirus plumosus	23895	3.42450	
Macoma balthica	3015	20.17800	
Macoma mitchelli	90	0.37350	
Marenzelleria viridis	270	0.64350	
Melita nitida (Epi)	225	0.01350	
Neanthes succinea	360	3.15000	
Oligochaeta		0.00225	
Procladius spp.	225		
Rangia cuneata	405	0.41850	
Streblospio benedicti	1755	0.04950	
Tubificidae imm w/o cap chaetae	360		
Tubificoides spp.	54135	0.58500	
Total Abundance w/ Epi.	90045		
Total Abundance w/o Epi.	85635		
Number of Taxa w/ Epi.	20		
Number of Taxa w/o Epi.	16		
Total Biomass w/ Epi.		30.64275	
Total Biomass w/o Epi.		29.95875	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 19MAY2004 Time: 9:55:15
BOTTOM ENVIRONMENT			
Depth (m): 2.4 Dissolved Oxygen (mg/l): 5.5		Salinity (ppt): 3.03 Sediment Silt-Clay (%): 91.19	Temperature (C): 25.45 Total Carbon (%): 3.02
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.92		3.81
Abundance (#/m2)	53145	Pollution Indicative Species Abundance (%)	0.09
Biomass (g/m2)	30.24	Pollution Indicative Species Biomass (%)	10.75
Carnivore-Omnivore Abundance (%)	2.12	Pollution Sensitive Species Abundance (%)	78.52
Deep Deposit Feeder Abundance (%)	47.25	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	405	0.02700	
Apocorophium lacustre (Epi)	45	0.00450	
Carinoma tremaphoros	225	0.35100	
Chironomidae		0.00225	
Cryptochironomus spp.	90		
Cyathura polita	540	0.27900	
Edotea triloba (Epi)	180	0.01350	
Gammarus dalberi (Epi)	3510	0.28350	
Heteromastus filiformis	135	0.15300	
Leptocheirus plumulosus	20205	2.74950	
Littoridinops tenuipes (Epi)	45	0.00450	
Macoma balthica	4095	23.27850	
Macoma mitchelli	45	0.00225	
Marenzelleria viridis	270	0.14400	
Melita nitida (Epi)	90	0.01350	
Neanthes succinea	270	2.90700	
Oligochaeta		0.00225	
Rangia cuneata	810	0.04050	
Streblospio benedicti	1080	0.02700	
Tubificidae imm w/o cap chaetae	945		
Tubificoides spp.	24030	0.27450	
Total Abundance w/ Epi.	57015		
Total Abundance w/o Epi.	53145		
Number of Taxa w/ Epi.	19		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.		30.55725	
Total Biomass w/o Epi.		30.23775	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 19MAY2004 Time: 9:55:15
BOTTOM ENVIRONMENT			
Depth (m): 2.4 Dissolved Oxygen (mg/l): 5.5	Salinity (ppt): 3.03 Sediment Silt-Clay (%): 91.19	Temperature (C): 25.45 Total Carbon (%): 3.02	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.88		5.62
Abundance (#/m2)	32850		0.05
Biomass (g/m2)	38.98		9.86
Carnivore-Omnivore Abundance (%)	2.33		94.19
Deep Deposit Feeder Abundance (%)	51.23		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.00900	
Carinoma tremaphoros	90	0.21600	
Chironomidae		0.00225	
Cyathura polita	630	0.04050	
Gammarus dalberi (Epi)	2475	0.41400	
Harnischia spp.	45		
Heteromastus filiformis	45	0.01800	
Leptocheirus plumosus	11745	1.69650	
Macoma balthica	2250	36.55800	
Macoma mitchelli	90	0.08550	
Marenzelleria viridis	135	0.10800	
Melita nitida (Epi)	45	0.00225	
Oligochaeta		0.01800	
Rangia cuneata	225	0.00450	
Streblospio benedicti	720	0.01800	
Tubificidae imm w/o cap chaetae	1125		
Tubificoides spp.	15660	0.20250	
Total Abundance w/ Epi.	35370		
Total Abundance w/o Epi.	32850		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		39.39300	
Total Biomass w/o Epi.		38.97675	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 19MAY2004 Time: 10:36:39
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.1	Salinity (ppt): 0.60 Sediment Silt-Clay (%): 96.33	Temperature (C): 25.38 Total Carbon (%): 2.96	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.81		0.39
Abundance (#/m2)	22815		0.87
Biomass (g/m2)	4.14		34.71
Carnivore-Omnivore Abundance (%)	0.99		72.35
Deep Deposit Feeder Abundance (%)	24.06		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.00450	
Chironomidae		0.00225	
Coelotanypus spp.	45	0.01800	
Cryptochironomus spp.	90		
Gammarus daiberi (Epi)	2295	0.10350	
Leptocheirus plumulosus	9045	1.01700	
Littoridinops tenuipes (Epi)	270	0.00900	
Marenzelleria viridis	7380	2.95200	
Procladius spp.	90		
Rangia cuneata	540	0.04500	
Streblospio benedicti	45	0.01800	
Tubificoides spp.	5490	0.08550	
Total Abundance w/ Epi.	25380		
Total Abundance w/o Epi.	22815		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		4.25475	
Total Biomass w/o Epi.		4.14225	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 19MAY2004 Time: 10:36:39
BOTTOM ENVIRONMENT			
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.1		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 96.33	Temperature (C): 25.38 Total Carbon (%): 2.96
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.93		0.29
Abundance (#/m2)	15570	Pollution Indicative Species Abundance (%)	0.29
Biomass (g/m2)	8.59	Pollution Indicative Species Biomass (%)	0.31
Carnivore-Omnivore Abundance (%)	2.60	Pollution Sensitive Species Abundance (%)	33.82
Deep Deposit Feeder Abundance (%)	20.81	Pollution Sensitive Species Biomass (%)	91.98
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.02700	
Apocorophium lacustre (Epi)	45	0.00225	
Chironomidae	45	0.00225	
Chironomidae	45	0.00225	
Coelotanypus spp.	45	0.02700	
Cryptochironomus spp.	45		
Cyathura polita	45	0.11250	
Gammarus dalmani (Epi)	1620	0.10350	
Harnischia spp.	45		
Leptocheirus plumulosus	6615	0.59400	
Littoridinops tenuipes (Epi)	45	0.00450	
Macoma balthica	135	5.01300	
Marenzelleria viridis	4770	2.34000	
Procladius spp.	180		
Rangia cuneata	315	0.43200	
Tubificoides spp.	3240	0.03600	
Total Abundance w/ Epi.	17280		
Total Abundance w/o Epi.	15570		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		8.69625	
Total Biomass w/o Epi.		8.58600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 19MAY2004 Time: 10:36:39	
BOTTOM ENVIRONMENT					
Depth (m): 2.5 Dissolved Oxygen (mg/l): 5.1		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 96.33		Temperature (C): 25.38 Total Carbon (%): 2.96	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	1.73		Pollution Indicative Species Abundance (%)	0.22	
Abundance (#/m2)	20610		Pollution Indicative Species Biomass (%)	0.47	
Biomass (g/m2)	4.82		Pollution Sensitive Species Abundance (%)	36.03	
Carnivore-Omnivore Abundance (%)	1.53		Pollution Sensitive Species Biomass (%)	84.26	
Deep Deposit Feeder Abundance (%)	16.81				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		45		0.00450	
Chironomidae				0.00225	
Coelotanypus spp.		45		0.02250	
Cryptochironomus spp.		45			
Gammarus dalmani (Epi)		1305		0.08550	
Leptocheirus plumulosus		9405		0.68400	
Macoma balthica		135		0.07650	
Marenzelleria viridis		6975		2.87550	
Procladius spp.		225			
Rangia cuneata		315		1.10700	
Tubificoides spp.		3465		0.04950	
Total Abundance w/ Epi.		21960			
Total Abundance w/o Epi.		20610			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				4.90725	
Total Biomass w/o Epi.				4.81725	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m	Rep: 01 Date: 19MAY2004 Time: 11:26:11
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 7.9		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 87.61	Temperature (C): 23.53 Total Carbon (%): 4.82
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.44		42.16
Abundance (#/m2)	9180	T.F. Pollution Indicative Spp. Abund. (%)	9.31
Deep Deposit Feeder Abundance (%)	96.57	Tolerance Score	42.16
Carnivore-Omnivore Abundance (%)	2.94	Limnodrilus Abundance (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Aulodrilus limnobi us	450		
Aulodrilus pigueti	90		
Chironomidae		0.00225	
Chironomus spp.	225		
Gammarus spp. (Epi)	90	0.00225	
Hydrophilus templetoni	1530		
Limnodrilus hoffmeisteri	630		
Musculium spp.	45	0.08100	
Oligochaeta		1.39050	
Orthocladinae	45		
Paranais litoralis	90		
Qui stadrilus multisetosus	180		
Slavinna appendiculata	45		
Tubificidae imm w cap chaetae	2610		
Tubificidae imm w/o cap chaetae	3240		
Total Abundance w/ Epi.	9270		
Total Abundance w/o Epi.	9180		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		1.47600	
Total Biomass w/o Epi.		1.47375	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m	Rep: 02 Date: 19MAY2004 Time: 11:26:11
BOTTOM ENVIRONMENT			
Depth (m): 2.0 Dissolved Oxygen (mg/l): 7.9		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 87.61	Temperature (C): 23.53 Total Carbon (%): 4.82
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.69	T.F. Pollution Indicative Spp. Abund. (%)	29.13
Abundance (#/m2)	9270	Tolerance Score	9.36
Deep Deposit Feeder Abundance (%)	96.12	Limnodrilus Abundance (%)	29.13
Carnivore-Omnivore Abundance (%)	2.91		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Aeshna spp. (Epi)	45	0.53550	
Aulodrilus limnobi us	360		
Chironomidae		0.00225	
Chironomus spp.	135		
Cryptochironomus spp.	45		
Gammarus spp. (Epi)	45	0.00450	
Ilyodrilus templetoni	1440		
Leptocheirus plumulosus	90	0.00225	
Limnodrilus hoffmeisteri	900		
Littoridinops tenuipes (Epi)	180	0.00900	
Nais communis	180		
Oligochaeta		2.09700	
Paranais litoralis	630		
Procladius spp.	90		
Qui stadrilus multisetosus	270		
Tubificidae imm w cap chaetae	3330		
Tubificidae imm w/o cap chaetae	1800		
Total Abundance w/ Epi.	9540		
Total Abundance w/o Epi.	9270		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		2.65050	
Total Biomass w/o Epi.		2.10150	

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BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 03 Date: 19MAY2004 Time: 11:26:11	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 7.9		Salinity (ppt): 0.14 Sediment Silt-Clay (%): 87.61		Temperature (C): 23.53 Total Carbon (%): 4.82	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.87		T.F. Pollution Indicative Spp. Abund. (%)	23.48	
Abundance (#/m2)	11880		Tolerance Score	8.94	
Deep Deposit Feeder Abundance (%)	96.21		Limnodrilus Abundance (%)	23.48	
Carnivore-Omnivore Abundance (%)	3.41				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Aulodrilus limnobi us		540			
Aulodrilus pigueti		630			
Chironomidae				0.00225	
Chironomus spp.		45			
Dero spp.		180			
Hydrophilus templetoni		1440			
Limnodrilus hoffmeisteri		540			
Littoridinops tenuipes (Epi)		135		0.00900	
Oligochaeta				2.36700	
Paranais litoralis		1440			
Pisidium spp.		45		0.01350	
Polypedilum halterale group		180			
Procladius spp.		180			
Quistadrilus multisetosus		180			
Specaria josinae		180			
Tubificidae imm w cap chaetae		4050			
Tubificidae imm w/o cap chaetae		2250			
Total Abundance w/ Epi.		12015			
Total Abundance w/o Epi.		11880			
Number of Taxa w/ Epi.		15			
Number of Taxa w/o Epi.		14			
Total Biomass w/ Epi.				2.39175	
Total Biomass w/o Epi.				2.38275	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 01 Date: 10MAY2004 Time: 16:40:00
BOTTOM ENVIRONMENT			
Depth (m): 3.8 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 96.90	Temperature (C): 16.16 Total Carbon (%): 5.19	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.62		2.08
Abundance (#/m2)	6480		0.29
Biomass (g/m2)	4.68		95.83
Carnivore-Omnivore Abundance (%)	0.00		99.62
Deep Deposit Feeder Abundance (%)	2.08		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Gammarus spp. (Epi)	45	0.00225	
Heteromastus filiformis	45	0.00225	
Macoma balthica	360	0.04950	
Marenzelleria viridis	5850	4.60800	
Streblospio benedicti	135	0.01350	
Tubificoides spp.	90	0.00225	
Total Abundance w/ Epi.	6525		
Total Abundance w/o Epi.	6480		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	5		
Total Biomass w/ Epi.		4.67775	
Total Biomass w/o Epi.		4.67550	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 10MAY2004 Time: 16:40:00
BOTTOM ENVIRONMENT			
Depth (m): 3.8 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 96.90	Temperature (C): 16.16 Total Carbon (%): 5.19	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.97		8.63
Abundance (#/m2)	6255		0.11
Biomass (g/m2)	4.21		89.93
Carnivore-Omnivore Abundance (%)	0.00		99.52
Deep Deposit Feeder Abundance (%)	5.76		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Gammarus spp. (Epi)	135	0.00450	
Macoma balthica	450	0.13050	
Macoma mitchelli	90	0.01350	
Marenzelleria viridis	5175	4.05900	
Oligochaeta		0.00225	
Streblospio benedicti	180	0.00450	
Tubificidae imm w/o cap chaetae	360		
Total Abundance w/ Epi.	6390		
Total Abundance w/o Epi.	6255		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	5		
Total Biomass w/ Epi.		4.21425	
Total Biomass w/o Epi.		4.20975	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 03 Date: 10MAY2004 Time: 16:40:00
BOTTOM ENVIRONMENT			
Depth (m): 3.8 Dissolved Oxygen (mg/l): 0.0	Salinity (ppt): 3.50 Sediment Silt-Clay (%): 96.90	Temperature (C): 16.16 Total Carbon (%): 5.19	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	0.64		4.76
Abundance (#/m2)	7560		0.33
Biomass (g/m2)	4.14		93.45
Carnivore-Omnivore Abundance (%)	0.00		99.51
Deep Deposit Feeder Abundance (%)	0.60		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.00225	
Gammarus dalberi (Epi)	90	0.00450	
Heteromastus filiformis	45	0.00225	
Littoridinops tenuipes (Epi)	45	0.00225	
Macoma balthica	180	0.04500	
Macoma mitchelli	45	0.00225	
Marenzelleria viridis	6840	4.06800	
Mytilopsis leucophaeata (Epi)	45	0.23850	
Rangia cuneata	45	0.00225	
Streblospio benedicti	360	0.01350	
Total Abundance w/ Epi.	7740		
Total Abundance w/o Epi.	7560		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.		4.38075	
Total Biomass w/o Epi.		4.13550	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 10MAY2004 Time: 14:36:00	
BOTTOM ENVIRONMENT					
Depth (m): 5.6 Dissolved Oxygen (mg/l): 1.9		Salinity (ppt): 4.20 Sediment Silt-Clay (%): 74.06		Temperature (C): 18.27 Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.05		Pollution Indicative Species Abundance (%)	18.54	
Abundance (#/m2)	8010		Pollution Indicative Species Biomass (%)	1.60	
Biomass (g/m2)	2.54		Pollution Sensitive Species Abundance (%)	61.24	
Carnivore-Omnivore Abundance (%)	3.37		Pollution Sensitive Species Biomass (%)	76.06	
Deep Deposit Feeder Abundance (%)	3.37				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		45		0.00225	
Gammarus dalberi (Epi)		45		0.00450	
Leptocheirus plumulosus		990		0.11250	
Littoridinops tenuipes (Epi)		495		0.02700	
Macoma balthica		405		0.05400	
Macoma mitchelli		45		0.02250	
Marenzelleria viridis		4365		1.86300	
Mya arenaria		45		0.00450	
Mytilopsis leucophaeata (Epi)		90		0.27450	
Neanthes succinea		270		0.39600	
Polydora cornuta		45		0.01800	
Rangia cuneata		90		0.00900	
Streblospio benedicti		1485		0.04050	
Tubificoides spp.		270		0.01800	
Total Abundance w/ Epi.		8685			
Total Abundance w/o Epi.		8010			
Number of Taxa w/ Epi.		14			
Number of Taxa w/o Epi.		10			
Total Biomass w/ Epi.				2.84625	
Total Biomass w/o Epi.				2.53800	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 10MAY2004 Time: 14:36:00
BOTTOM ENVIRONMENT			
Depth (m): 5.6 Dissolved Oxygen (mg/l): 1.9	Salinity (ppt): 4.20 Sediment Silt-Clay (%): 74.06	Temperature (C): 18.27 Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.98		16.75
Abundance (#/m2)	9405		2.14
Biomass (g/m2)	2.52		46.89
Carnivore-Omnivore Abundance (%)	3.83		65.54
Deep Deposit Feeder Abundance (%)	4.31		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Eteone heteropoda	45	0.01350	
Gammarus daiberi (Epi)	225	0.01800	
Leptocheirus plumulosus	2700	0.37800	
Macoma balthica	135	0.03600	
Marenzelleria viridis	4230	1.60650	
Neanthes succinea	315	0.41850	
Rangia cuneata	45	0.00900	
Streblospio benedicti	1530	0.04050	
Tubificoides spp.	405	0.01800	
Total Abundance w/ Epi.	9630		
Total Abundance w/o Epi.	9405		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	8		
Total Biomass w/ Epi.		2.53800	
Total Biomass w/o Epi.		2.52000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 10MAY2004 Time: 14:36:00	
BOTTOM ENVIRONMENT					
Depth (m): 5.6 Dissolved Oxygen (mg/l): 1.9		Salinity (ppt): 4.20 Sediment Silt-Clay (%): 74.06		Temperature (C): 18.27 Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score:		Condition: Not Applicable		# Attributes Scored: 0	
	Value	Score		Value	Score
Shannon-Wiener Index	2.44		Pollution Indicative Species Abundance (%)	22.16	
Abundance (#/m2)	8325		Pollution Indicative Species Biomass (%)	2.14	
Biomass (g/m2)	2.74		Pollution Sensitive Species Abundance (%)	43.24	
Carnivore-Omnivore Abundance (%)	4.32		Pollution Sensitive Species Biomass (%)	56.58	
Deep Deposit Feeder Abundance (%)	8.11				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00225	
Eteone heteropoda		135		0.00900	
Gammarus daiberi (Epi)		360		0.03600	
Heteromastus filiformis		45		0.27000	
Leptocheirus plumulosus		1935		0.20700	
Limnodrilus hoffmeisteri		45			
Littoridinops tenuipes (Epi)		45		0.00225	
Macoma balthica		270		0.05400	
Macoma mitchelli		135		0.02700	
Marenzelleria viridis		3285		1.48500	
Neanthes succinea		225		0.59400	
Oligochaeta				0.00225	
Rangia cuneata		45		0.00900	
Streblospio benedicti		1575		0.04950	
Tubificidae imm w/o cap chaetae		90			
Tubificoides spp.		495		0.02700	
Total Abundance w/ Epi.		8730			
Total Abundance w/o Epi.		8325			
Number of Taxa w/ Epi.		15			
Number of Taxa w/o Epi.		13			
Total Biomass w/ Epi.				2.77425	
Total Biomass w/o Epi.				2.73600	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab	Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m	Rep: 01 Date: 10MAY2004 Time: 12:58:00
BOTTOM ENVIRONMENT		
Depth (m): 1.9 Dissolved Oxygen (mg/l): 10.1	Salinity (ppt): 0.70 Sediment Silt-Clay (%): 98.66	Temperature (C): 20.70 Total Carbon (%): 4.78
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.55	Oligohaline Pollution Indicative Spp. Abund. 86.67
Abundance (#/m2)	1022	Tolerance Score 9.04
Deep Deposit Feeder Abundance (%)	55.56	Oligohaline Pollution Sensitive Spp. Abund. 0.00
Carnivore-Omnivore Abundance (%)	42.22	Tanypodidae/Chironomidae Abundance Ratio 21.05
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Arctonai s l o m o n d i	91	
Chi r o n o m i d a e		0.00114
Chi r o n o m u s s p p .	341	
Coel o t a n y p u s s p p .	91	0.06816
Dero n i v e a	45	
Leptocheirus plumulosus	23	0.00227
Limnodrilus hoffmeisteri	273	
Oligochaeta		0.06021
Tubificidae imm w/o cap chaetae	91	
Tubificoides spp.	68	0.00114
Total Abundance w/ Epi .	1022	
Total Abundance w/o Epi .	1022	
Number of Taxa w/ Epi .	8	
Number of Taxa w/o Epi .	8	
Total Biomass w/ Epi .		0.13291
Total Biomass w/o Epi .		0.13291

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab		Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m	Rep: 02 Date: 10MAY2004 Time: 12:58:00
BOTTOM ENVIRONMENT			
Depth (m): 1.9 Dissolved Oxygen (mg/l): 10.1		Salinity (ppt): 0.70 Sediment Silt-Clay (%): 98.66	Temperature (C): 20.70 Total Carbon (%): 4.78
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.78	Oligohaline Pollution Indicative Spp. Abund.	95.71
Abundance (#/m2)	1590	Tolerance Score	9.64
Deep Deposit Feeder Abundance (%)	82.86	Oligohaline Pollution Sensitive Spp. Abund.	1.43
Carnivore-Omnivore Abundance (%)	15.71	Tanypodinae/Chironomidae Abundance Ratio	9.09
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Arctonai s l o m o n d i	45		
Ch i r o n o m i d a e		0.00114	
Ch i r o n o m u s s p p .	227		
C o e l o t a n y p u s s p p .	23	0.00682	
L i m n o d r i l u s h o f f m e i s t e r i	682		
M a r e n z e l l e r i a v i r i d i s	23	0.04317	
O l i g o c h a e t a		0.27491	
T u b i f i c i d a e i m m w / o c a p c h a e t a e	591		
Total Abundance w/ Epi.	1590		
Total Abundance w/o Epi.	1590		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		0.32603	
Total Biomass w/o Epi.		0.32603	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab	Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m	Rep: 03 Date: 10MAY2004 Time: 12:58:00
BOTTOM ENVIRONMENT		
Depth (m): 1.9 Dissolved Oxygen (mg/l): 10.1	Salinity (ppt): 0.70 Sediment Silt-Clay (%): 98.66	Temperature (C): 20.70 Total Carbon (%): 4.78
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.30	Oligohaline Pollution Indicative Spp. Abund. 87.18
Abundance (#/m2)	886	Tolerance Score 9.09
Deep Deposit Feeder Abundance (%)	66.67	Oligohaline Pollution Sensitive Spp. Abund. 7.69
Carnivore-Omnivore Abundance (%)	25.64	Tanypodinae/Chironomidae Abundance Ratio 50.00
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Arctonai s l o m o n d i	45	
Chi r o n o m i d a e		0.00114
Chi r o n o m u s s p p .	114	
Coel o t a n y p u s s p p .	114	0.09542
Limnodrilus hoffmeisteri	318	
Marenzelleria viridis	68	0.09542
Oligochaeta		0.12269
Tubificidae imm w/o cap chaetae	227	
Total Abundance w/ Epi.	886	
Total Abundance w/o Epi.	886	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.31467
Total Biomass w/o Epi.		0.31467

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab	Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq. m	Rep: 01 Date: 11MAY2004 Time: 15:14:31
BOTTOM ENVIRONMENT		
Depth (m): 6.5 Dissolved Oxygen (mg/l): 8.0	Salinity (ppt): 6.13 Sediment Silt-Clay (%): 47.74	Temperature (C): 18.66 Total Carbon (%): 2.08
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.17	Pollution Indicative Species Abundance (%) 0.71
Abundance (#/m2)	6430	Pollution Indicative Species Biomass (%) 0.10
Biomass (g/m2)	4.46	Pollution Sensitive Species Abundance (%) 34.63
Carnivore-Omnivore Abundance (%)	11.66	Pollution Sensitive Species Biomass (%) 28.02
Deep Deposit Feeder Abundance (%)	41.70	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Eteone heteropoda	23	0.00227
Gammarus dalberi (Epi)	23	0.00114
Heteromastus filiformis	136	0.26355
Leptocheirus plumulosus	750	0.28400
Macoma balthica	364	0.17949
Marenzelleria viridis	1863	1.07011
Neanthes succinea	727	2.57645
Streblospio benedicti	23	0.00227
Tubificoides spp.	2545	0.08179
Total Abundance w/ Epi.	6452	
Total Abundance w/o Epi.	6430	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		4.46107
Total Biomass w/o Epi.		4.45994

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab	Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq.m	Rep: 02 Date: 11MAY2004 Time: 15:14:31
BOTTOM ENVIRONMENT		
Depth (m): 6.5 Dissolved Oxygen (mg/l): 8.0	Salinity (ppt): 6.13 Sediment Silt-Clay (%): 47.74	Temperature (C): 18.66 Total Carbon (%): 2.08
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value	Score
Shannon-Wiener Index	2.32	Pollution Indicative Species Abundance (%) 1.38
Abundance (#/m2)	8247	Pollution Indicative Species Biomass (%) 0.07
Biomass (g/m2)	5.03	Pollution Sensitive Species Abundance (%) 30.85
Carnivore-Omnivore Abundance (%)	9.64	Pollution Sensitive Species Biomass (%) 44.16
Deep Deposit Feeder Abundance (%)	41.05	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Eteone heteropoda	23	0.00227
Heteromastus filiformis	250	0.30672
Leptocheirus plumulosus	1363	0.25446
Macoma balthica	454	1.47680
Macoma mitchelli	68	0.17040
Marenzelleria viridis	2090	0.74294
Neanthes succinea	772	1.97664
Streblospio benedicti	91	0.00114
Tubificoides spp.	3135	0.09542
Total Abundance w/ Epi.	8247	
Total Abundance w/o Epi.	8247	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		5.02680
Total Biomass w/o Epi.		5.02680

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2004 (CRUISE 02: 2003/2004) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab		Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq. m	Rep: 03 Date: 11MAY2004 Time: 15:14:31
BOTTOM ENVIRONMENT			
Depth (m): 6.5 Dissolved Oxygen (mg/l): 8.0		Salinity (ppt): 6.13 Sediment Silt-Clay (%): 47.74	Temperature (C): 18.66 Total Carbon (%): 2.08
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.35		0.28
Abundance (#/m2)	8020	Pollution Indicative Species Abundance (%)	0.23
Biomass (g/m2)	3.89	Pollution Indicative Species Biomass (%)	33.71
Carnivore-Omnivore Abundance (%)	8.78	Pollution Sensitive Species Abundance (%)	29.17
Deep Deposit Feeder Abundance (%)	35.98	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	23	0.00909	
Eteone heteropoda	23	0.00909	
Gammarus daiberi (Epi)	23	0.04090	
Heteromastus filiformis	204	0.24765	
Leptocheirus plumulosus	1613	0.41123	
Macoma balthica	591	0.20675	
Macoma mitchelli	68	0.08179	
Marenzelleria viridis	2113	0.92698	
Neanthes succinea	682	1.88803	
Polydora cornuta	23	0.00114	
Tubificoides spp.	2681	0.10451	
Total Abundance w/ Epi.	8043		
Total Abundance w/o Epi.	8020		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		3.92715	
Total Biomass w/o Epi.		3.88626	

DATA SUMMARY B

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT FIXED SITES:
SUMMER 2004**

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m		Rep: 01 Date: 14SEP2004 Time: 9:30:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 12.7		Salinity (ppt): 1.00 Sediment Silt-Clay (%): 2.99		Temperature (C): 20.56 Total Carbon (%): 0.15	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.27	1	Pollution Indicative Species Abundance (%)	51.72	1
Abundance (#/m2)	1160	3	Pollution Indicative Species Biomass (%)	6.15	
Biomass (g/m2)	1.24	3	Pollution Sensitive Species Abundance (%)	3.45	1
Carnivore-Omnivore Abundance (%)	20.69	3	Pollution Sensitive Species Biomass (%)	0.65	
Deep Deposit Feeder Abundance (%)	6.90				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Americamysis bigelowi (Epi)		40		0.00800	
Eteone foliosa		40		0.15600	
Glycynde solitaria		40		0.00800	
Heteromastus filiformis		80		0.14800	
Lepidactylus dytiscus		40		0.01200	
Macoma mitchelli		200		0.12800	
Micrura lei dyi		160		0.70800	
Mulinia lateralis		40		0.06000	
Streblospio benedicti		560		0.01600	
Total Abundance w/ Epi.		1200			
Total Abundance w/o Epi.		1160			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				1.24400	
Total Biomass w/o Epi.				1.23600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer	Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq.m	Rep: 02 Date: 14SEP2004 Time: 9:30:00
BOTTOM ENVIRONMENT		
Depth (m): 2.0 Dissolved Oxygen (mg/l): 12.7	Salinity (ppt): 1.00 Sediment Silt-Clay (%): 2.99	Temperature (C): 20.56 Total Carbon (%): 0.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.10 1	Pollution Indicative Species Abundance (%) 56.10 1
Abundance (#/m2)	1640 5	Pollution Indicative Species Biomass (%) 2.16
Biomass (g/m2)	1.85 3	Pollution Sensitive Species Abundance (%) 2.44 1
Carnivore-Omnivore Abundance (%)	21.95 3	Pollution Sensitive Species Biomass (%) 0.22
Deep Deposit Feeder Abundance (%)	4.88	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Glycinde solitaria	40	0.00400
Heteromastus filiformis	40	0.00400
Leitoscoloplos spp.	40	0.00800
Lepidactylus dytiscus	80	0.03600
Macoma mitchelli	120	0.00800
Micrura lei dyi	320	1.73600
Paraonis fulgens	120	0.02000
Streblospio benedicti	880	0.03200
Total Abundance w/ Epi.	1640	
Total Abundance w/o Epi.	1640	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		1.84800
Total Biomass w/o Epi.		1.84800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 001 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m		Rep: 03 Date: 14SEP2004 Time: 9:30:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 12.7		Salinity (ppt): 1.00 Sediment Silt-Clay (%): 2.99		Temperature (C): 20.56 Total Carbon (%): 0.15	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.77	3	Pollution Indicative Species Abundance (%)	28.79	1
Abundance (#/m2)	2640	5	Pollution Indicative Species Biomass (%)	17.64	
Biomass (g/m2)	1.00	1	Pollution Sensitive Species Abundance (%)	4.55	1
Carnivore-Omnivore Abundance (%)	12.12	1	Pollution Sensitive Species Biomass (%)	1.40	
Deep Deposit Feeder Abundance (%)	19.70				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		40		0.00200	
Glycyde solitaria		80		0.01200	
Hami noea solitaria		120		0.02800	
Heteromastus filiformis		320		0.03600	
Lepidactylus dytiscus		40		0.01600	
Macoma mitchelli		920		0.05600	
Mediomastus ambiseta		40		0.00200	
Micrura leidyi		120		0.66400	
Mulinia lateralis		120		0.15200	
Paraonis fulgens		40		0.00400	
Streblospio benedicti		640		0.02400	
Tubificoides spp.		160		0.00200	
Total Abundance w/ Epi.		2640			
Total Abundance w/o Epi.		2640			
Number of Taxa w/ Epi.		12			
Number of Taxa w/o Epi.		12			
Total Biomass w/ Epi.				0.99800	
Total Biomass w/o Epi.				0.99800	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Calvert Cliffs Discharge Gear: Modified Box Corer		Station: 006 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m		Rep: 01 Date: 14SEP2004 Time: 10:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.7 Dissolved Oxygen (mg/l): 12.7		Salinity (ppt): 1.10 Sediment Silt-Clay (%): 0.61		Temperature (C): 15.87 Total Carbon (%): 0.07	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.21	1	Pollution Indicative Species Abundance (%)	54.00	1
Abundance (#/m2)	2000	5	Pollution Indicative Species Biomass (%)	2.73	
Biomass (g/m2)	1.69	3	Pollution Sensitive Species Abundance (%)	0.00	1
Carnivore-Omnivore Abundance (%)	16.00	1	Pollution Sensitive Species Biomass (%)	0.00	
Deep Deposit Feeder Abundance (%)	6.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		40		0.00400	
Chironomus caeca		40		0.06400	
Eteone heteropoda		40		0.00200	
Heteromastus filiformis		120		0.07600	
Laeonereis culveri		40		0.30800	
Macoma mitchelli		360		0.03200	
Micrura lei dyi		200		1.13600	
Paraonis fulgens		120		0.02000	
Streblospio benedicti		1040		0.04400	
Total Abundance w/ Epi.		2000			
Total Abundance w/o Epi.		2000			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				1.68600	
Total Biomass w/o Epi.				1.68600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Calvert Cliffs Discharge		Station: 006		Rep: 02	
Gear: Modified Box Corer		Habitat: High Mesohaline Sand		Date: 14SEP2004	
		Sampled Area: 0.025 sq.m		Time: 10:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.7		Salinity (ppt): 1.10		Temperature (C): 15.87	
Dissolved Oxygen (mg/l): 12.7		Sediment Silt-Clay (%): 0.61		Total Carbon (%): 0.07	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.67		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.14	1	Pollution Indicative Species Abundance (%)	29.41	1
Abundance (#/m2)	1360	3	Pollution Indicative Species Biomass (%)	0.55	
Biomass (g/m2)	2.18	3	Pollution Sensitive Species Abundance (%)	2.94	1
Carnivore-Omnivore Abundance (%)	11.76	1	Pollution Sensitive Species Biomass (%)	0.18	
Deep Deposit Feeder Abundance (%)	14.71				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cyathura polita		40		0.00400	
Heteromastus filiformis		200		0.03600	
Laeonereis culveri		40		1.70000	
Lepidactylus dytiscus		40		0.02000	
Macoma mitchelli		560		0.02000	
Micrura leidy		80		0.38800	
Streblospio benedicti		400		0.01200	
Total Abundance w/ Epi.		1360			
Total Abundance w/o Epi.		1360			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				2.18000	
Total Biomass w/o Epi.				2.18000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Calvert Cliffs Discharge Gear: Modified Box Corer		Station: 006 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq.m		Rep: 03 Date: 14SEP2004 Time: 10:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.7 Dissolved Oxygen (mg/l): 12.7		Salinity (ppt): 1.10 Sediment Silt-Clay (%): 0.61		Temperature (C): 15.87 Total Carbon (%): 0.07	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.26	1	Pollution Indicative Species Abundance (%)	36.59	1
Abundance (#/m2)	1640	5	Pollution Indicative Species Biomass (%)	4.01	
Biomass (g/m2)	1.10	3	Pollution Sensitive Species Abundance (%)	2.44	1
Carnivore-Omnivore Abundance (%)	12.20	1	Pollution Sensitive Species Biomass (%)	2.55	
Deep Deposit Feeder Abundance (%)	21.95				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Glycinde solitaria		40		0.02800	
Heteromastus filiformis		360		0.01600	
Laeonereis culveri		40		0.59200	
Macoma mitchelli		480		0.01200	
Micrura leidyi		80		0.35200	
Mulinia lateralis		40		0.00800	
Pseudeurythoe paucibranchiata		40		0.05200	
Streblospio benedicti		560		0.03600	
Total Abundance w/ Epi.		1640			
Total Abundance w/o Epi.		1640			
Number of Taxa w/ Epi.		8			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				1.09600	
Total Biomass w/o Epi.				1.09600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer	Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 14SEP2004 Time: 11:30:00
BOTTOM ENVIRONMENT		
Depth (m): 2.6 Dissolved Oxygen (mg/l): 14.2	Salinity (ppt): 0.90 Sediment Silt-Clay (%): 1.99	Temperature (C): 15.83 Total Carbon (%): 0.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.74 3	Pollution Indicative Species Abundance (%) 5.88 5
Abundance (#/m2)	2720 5	Pollution Indicative Species Biomass (%) 1.92
Biomass (g/m2)	6.68 5	Pollution Sensitive Species Abundance (%) 17.65 3
Carnivore-Omnivore Abundance (%)	25.00 3	Pollution Sensitive Species Biomass (%) 58.97
Deep Deposit Feeder Abundance (%)	45.59	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Amphiporus bioculatus	200	0.01600
Carinoma tremaphoros	160	0.04800
Cyathura polita	160	0.34800
Cyclaspis varians	40	0.00200
Edotea triloba (Epi)	40	0.00400
Glycynde solitaria	40	0.00200
Heteromastus filiformis	1120	0.82800
Lepidactylus dytiscus	40	0.00800
Macoma balthica	120	3.19600
Macoma mitchelli	280	0.14800
Marenzelleria viridis	160	0.39200
Micrura leidyi	120	1.56000
Mulinia lateralis	40	0.12400
Streblospio benedicti	120	0.00400
Tubificoides spp.	120	0.00200
Total Abundance w/ Epi.	2760	
Total Abundance w/o Epi.	2720	
Number of Taxa w/ Epi.	15	
Number of Taxa w/o Epi.	14	
Total Biomass w/ Epi.		6.68200
Total Biomass w/o Epi.		6.67800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m		Rep: 02 Date: 14SEP2004 Time: 11:30:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.6 Dissolved Oxygen (mg/l): 14.2		Salinity (ppt): 0.90 Sediment Silt-Clay (%): 1.99		Temperature (C): 15.83 Total Carbon (%): 0.1	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.45	1	Pollution Indicative Species Abundance (%)	2.86	5
Abundance (#/m2)	1400	3	Pollution Indicative Species Biomass (%)	0.99	
Biomass (g/m2)	5.24	5	Pollution Sensitive Species Abundance (%)	17.14	3
Carnivore-Omnivore Abundance (%)	28.57	3	Pollution Sensitive Species Biomass (%)	13.13	
Deep Deposit Feeder Abundance (%)	42.86				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		40		0.00200	
Carinoma tremaphoros		80		0.00200	
Cyathura polita		80		0.10800	
Glycinde solitaria		40		0.05200	
Heteromastus filiformis		600		0.41200	
Macoma balthica		40		0.30000	
Macoma mitchelli		200		0.14800	
Marenzelleria viridis		80		0.22800	
Micrura leidyi		200		3.93600	
Mulinia lateralis		40		0.05200	
Total Abundance w/ Epi.		1400			
Total Abundance w/o Epi.		1400			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		10			
Total Biomass w/ Epi.				5.24000	
Total Biomass w/o Epi.				5.24000	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Modified Box Corer		Station: 015 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq.m		Rep: 03 Date: 14SEP2004 Time: 11:30:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.6 Dissolved Oxygen (mg/l): 14.2		Salinity (ppt): 0.90 Sediment Silt-Clay (%): 1.99		Temperature (C): 15.83 Total Carbon (%): 0.1	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.33		Condition: Degraded		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.77	1	Pollution Indicative Species Abundance (%)	0.00	5
Abundance (#/m2)	1160	3	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	0.74	1	Pollution Sensitive Species Abundance (%)	0.00	1
Carnivore-Omnivore Abundance (%)	20.69	3	Pollution Sensitive Species Biomass (%)	0.00	
Deep Deposit Feeder Abundance (%)	68.97				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Heteromastus filiformis	640		0.36000		
Lepidactylus dytiscus	80		0.02400		
Macoma mitchelli	40		0.00200		
Micrura leidyi	200		0.34800		
Nemertina	40		0.00200		
Tubificoides spp.	160		0.00400		
Total Abundance w/ Epi.	1160				
Total Abundance w/o Epi.	1160				
Number of Taxa w/ Epi.	6				
Number of Taxa w/o Epi.	6				
Total Biomass w/ Epi.			0.74000		
Total Biomass w/o Epi.			0.74000		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 02SEP2004 Time: 9:57:04	
BOTTOM ENVIRONMENT					
Depth (m): 4.0 Dissolved Oxygen (mg/l): 2.3		Salinity (ppt): 5.49 Sediment Silt-Clay (%): 83.80		Temperature (C): 26.08 Total Carbon (%): 3.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.80		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.71	3	Pollution Indicative Species Abundance (%)	26.26	1
Abundance (#/m2)	4455	3	Pollution Indicative Species Biomass (%)	5.61	
Biomass (g/m2)	0.44	1	Pollution Sensitive Species Abundance (%)	1.01	
Carnivore-Omnivore Abundance (%)	13.13		Pollution Sensitive Species Biomass (%)	24.49	1
Deep Deposit Feeder Abundance (%)	3.03				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Eteone heteropoda		90		0.00225	
Geukensia demissa (Epi)		45		0.04950	
Macoma balthica		45		0.10800	
Macoma mitchelli		45		0.12150	
Mytilopsis leucophaeata (Epi)		630		4.26600	
Neanthes succinea		495		0.12600	
Polydora cornuta		2565		0.05850	
Streblospio benedicti		1080		0.02250	
Stylochus ellipticus (Epi)		45		0.00225	
Tubificoides spp.		135		0.00225	
Total Abundance w/ Epi.		5175			
Total Abundance w/o Epi.		4455			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				4.75875	
Total Biomass w/o Epi.				0.44100	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 02SEP2004 Time: 9:57:04	
BOTTOM ENVIRONMENT					
Depth (m): 4.0 Dissolved Oxygen (mg/l): 2.3		Salinity (ppt): 5.49 Sediment Silt-Clay (%): 83.80		Temperature (C): 26.08 Total Carbon (%): 3.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.20		Condition: Degraded		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.91	3	Pollution Indicative Species Abundance (%)	55.56	1
Abundance (#/m2)	2025	5	Pollution Indicative Species Biomass (%)	5.56	
Biomass (g/m2)	0.24	1	Pollution Sensitive Species Abundance (%)	2.22	
Carnivore-Omnivore Abundance (%)	8.89		Pollution Sensitive Species Biomass (%)	12.96	1
Deep Deposit Feeder Abundance (%)	8.89				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		90		0.00450	
Carinoma tremaphoros		90		0.01800	
Littoridinops tenuipes (Epi)		45		0.00225	
Macoma mitchelli		45		0.14400	
Mytilopsis leucophaeata (Epi)		405		1.06200	
Neanthes succinea		90		0.02250	
Polydora cornuta		450		0.00900	
Rangia cuneata		45		0.03150	
Streblospio benedicti		1125		0.01350	
Tubificoides spp.		180		0.00450	
Total Abundance w/ Epi.		2565			
Total Abundance w/o Epi.		2025			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				1.31175	
Total Biomass w/o Epi.				0.24300	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 022 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 02SEP2004 Time: 9:57:04	
BOTTOM ENVIRONMENT					
Depth (m): 4.0 Dissolved Oxygen (mg/l): 2.3		Salinity (ppt): 5.49 Sediment Silt-Clay (%): 83.80		Temperature (C): 26.08 Total Carbon (%): 3.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.04	3	Pollution Indicative Species Abundance (%)	56.41	1
Abundance (#/m2)	1755	5	Pollution Indicative Species Biomass (%)	0.34	
Biomass (g/m2)	4.60	3	Pollution Sensitive Species Abundance (%)	10.26	
Carnivore-Omnivore Abundance (%)	5.13		Pollution Sensitive Species Biomass (%)	98.09	5
Deep Deposit Feeder Abundance (%)	12.82				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		45		0.04500	
Eteone heteropoda		45		0.00225	
Heteromastus filiformis		90		0.01800	
Macoma balthica		180		4.51350	
Polydora cornuta		315		0.00450	
Streblospio benedicti		945		0.01350	
Tubificoides spp.		135		0.00450	
Total Abundance w/ Epi.		1755			
Total Abundance w/o Epi.		1755			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				4.60125	
Total Biomass w/o Epi.				4.60125	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 02SEP2004 Time: 8:48:55	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.0		Salinity (ppt): 4.82 Sediment Silt-Clay (%): 94.25		Temperature (C): 25.79 Total Carbon (%): 4.79	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.04	3	Pollution Indicative Species Abundance (%)	15.15	3
Abundance (#/m2)	1485	3	Pollution Indicative Species Biomass (%)	0.08	
Biomass (g/m2)	2.89	3	Pollution Sensitive Species Abundance (%)	60.61	
Carnivore-Omnivore Abundance (%)	18.18		Pollution Sensitive Species Biomass (%)	95.79	5
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Leptocheirus plumulosus		45		0.01350	
Macoma balthica		720		2.04750	
Macoma mitchelli		45		0.00225	
Neanthes succinea		270		0.10350	
Rangia cuneata		180		0.72000	
Streblospio benedicti		225		0.00225	
Total Abundance w/ Epi.		1485			
Total Abundance w/o Epi.		1485			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		6			
Total Biomass w/ Epi.				2.88900	
Total Biomass w/o Epi.				2.88900	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 02SEP2004 Time: 8:48:55	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.0		Salinity (ppt): 4.82 Sediment Silt-Clay (%): 94.25		Temperature (C): 25.79 Total Carbon (%): 4.79	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.87	3	Pollution Indicative Species Abundance (%)	0.00	5
Abundance (#/m2)	1440	3	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	4.30	3	Pollution Sensitive Species Abundance (%)	46.88	
Carnivore-Omnivore Abundance (%)	43.75		Pollution Sensitive Species Biomass (%)	91.95	5
Deep Deposit Feeder Abundance (%)	3.13				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Edotea triloba (Epi)		90		0.00225	
Heteromastus filiformis		45		0.01800	
Macoma balthica		450		2.84400	
Macoma mitchelli		90		0.04050	
Neanthes succinea		630		0.28800	
Rangia cuneata		225		1.11150	
Total Abundance w/ Epi.		1530			
Total Abundance w/o Epi.		1440			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				4.30425	
Total Biomass w/o Epi.				4.30200	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 023 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 02SEP2004 Time: 8:48:55	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 7.0		Salinity (ppt): 4.82 Sediment Silt-Clay (%): 94.25		Temperature (C): 25.79 Total Carbon (%): 4.79	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.60		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.44	3	Pollution Indicative Species Abundance (%)	5.88	5
Abundance (#/m2)	1530	5	Pollution Indicative Species Biomass (%)	0.06	
Biomass (g/m2)	6.98	5	Pollution Sensitive Species Abundance (%)	50.00	
Carnivore-Omnivore Abundance (%)	29.41		Pollution Sensitive Species Biomass (%)	93.62	5
Deep Deposit Feeder Abundance (%)	8.82				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		45		0.00225	
Eteone heteropoda		45		0.00225	
Heteromastus filiformis		90		0.00225	
Macoma balthica		540		1.36800	
Macoma mitchelli		135		0.26550	
Neanthes succinea		405		0.17100	
Rangia cuneata		225		5.16600	
Streblospio benedicti		45		0.00225	
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		1575			
Total Abundance w/o Epi.		1530			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				6.98175	
Total Biomass w/o Epi.				6.97950	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 01 Date: 01SEP2004 Time: 12:25:26	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 3.4		Salinity (ppt): 6.79 Sediment Silt-Clay (%): 97.08		Temperature (C): 25.19 Total Carbon (%): 3.7	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.67		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.35	3	Pollution Indicative Species Abundance (%)	4.35	
Abundance (#/m2)	2070	5	Pollution Indicative Species Biomass (%)	0.27	5
Biomass (g/m2)	4.17	5	Pollution Sensitive Species Abundance (%)	28.26	
Carnivore-Omnivore Abundance (%)	32.61	5	Pollution Sensitive Species Biomass (%)	93.64	5
Deep Deposit Feeder Abundance (%)	10.87				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Eteone heteropoda	45		0.00900		
Heteromastus filiformis	90		0.02250		
Leptocheirus plumulosus	540		0.05400		
Macoma balthica	540		3.84300		
Marenzelleria viridis	45		0.06300		
Neanthes succinea	630		0.17550		
Streblospio benedicti	45		0.00225		
Tubificoides spp.	135		0.00225		
Total Abundance w/ Epi.	2070				
Total Abundance w/o Epi.	2070				
Number of Taxa w/ Epi.	8				
Number of Taxa w/o Epi.	8				
Total Biomass w/ Epi.			4.17150		
Total Biomass w/o Epi.			4.17150		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 02 Date: 01SEP2004 Time: 12:25:26	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 3.4		Salinity (ppt): 6.79 Sediment Silt-Clay (%): 97.08		Temperature (C): 25.19 Total Carbon (%): 3.7	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.47	3	Pollution Indicative Species Abundance (%)	3.17	
Abundance (#/m2)	2835	3	Pollution Indicative Species Biomass (%)	0.09	5
Biomass (g/m2)	5.22	5	Pollution Sensitive Species Abundance (%)	23.81	
Carnivore-Omnivore Abundance (%)	28.57	5	Pollution Sensitive Species Biomass (%)	80.34	5
Deep Deposit Feeder Abundance (%)	22.22				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		45		0.00450	
Edwardsia elegans		45		0.04500	
Eteone heteropoda		45		0.00225	
Heteromastus filiformis		90		0.12600	
Leptocheirus plumulosus		675		0.10800	
Macoma balthica		675		4.19400	
Neanthes succinea		675		0.73350	
Streblospio benedicti		45		0.00225	
Tubificoides spp.		540		0.00450	
Total Abundance w/ Epi.		2835			
Total Abundance w/o Epi.		2835			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				5.22000	
Total Biomass w/o Epi.				5.22000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Mainstem Gear: Wildco Box Corer		Station: 024 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 03 Date: 01SEP2004 Time: 12:25:26	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 3.4		Salinity (ppt): 6.79 Sediment Silt-Clay (%): 97.08		Temperature (C): 25.19 Total Carbon (%): 3.7	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.67		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.21	3	Pollution Indicative Species Abundance (%)	0.00	
Abundance (#/m2)	1530	5	Pollution Indicative Species Biomass (%)	0.00	5
Biomass (g/m2)	4.31	5	Pollution Sensitive Species Abundance (%)	26.47	
Carnivore-Omnivore Abundance (%)	47.06	5	Pollution Sensitive Species Biomass (%)	81.25	5
Deep Deposit Feeder Abundance (%)	8.82				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		45		0.00225	
Heteromastus filiformis		45		0.00225	
Leptocheirus plumulosus		270		0.09900	
Macoma balthica		315		3.38400	
Marenzelleria viridis		90		0.11700	
Neanthes succinea		675		0.70200	
Tubificoides spp.		90		0.00225	
Total Abundance w/ Epi.		1530			
Total Abundance w/o Epi.		1530			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				4.30875	
Total Biomass w/o Epi.				4.30875	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 01SEP2004 Time: 16:30:53	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.7		Salinity (ppt): 0.94 Sediment Silt-Clay (%): 93.02		Temperature (C): 25.87 Total Carbon (%): 4.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.20		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.06	3	Pollution Indicative Species Abundance (%)	4.00	5
Abundance (#/m2)	2250	5	Pollution Indicative Species Biomass (%)	0.04	
Biomass (g/m2)	10.11	3	Pollution Sensitive Species Abundance (%)	80.00	
Carnivore-Omnivore Abundance (%)	6.00		Pollution Sensitive Species Biomass (%)	99.64	5
Deep Deposit Feeder Abundance (%)	4.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00225	
Coelotanypus spp.		90		0.00450	
Cyathura polita		45		0.00900	
Edotea triloba (Epi)		90		0.00225	
Hobsonia florida		225		0.02700	
Littoridinops tenuipes (Epi)		90		5.67000	
Macoma balthica		45		3.19950	
Marenzelleria viridis		1080		0.44100	
Rangia cuneata		630		6.42600	
Tubificoides spp.		90		0.00225	
Total Abundance w/ Epi.		2430			
Total Abundance w/o Epi.		2250			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				15.78375	
Total Biomass w/o Epi.				10.11150	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 01SEP2004 Time: 16:30:53	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.7		Salinity (ppt): 0.94 Sediment Silt-Clay (%): 93.02		Temperature (C): 25.87 Total Carbon (%): 4.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.85	3	Pollution Indicative Species Abundance (%)	0.00	5
Abundance (#/m2)	945	3	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	46.94	1	Pollution Sensitive Species Abundance (%)	95.24	
Carnivore-Omnivore Abundance (%)	14.29		Pollution Sensitive Species Biomass (%)	99.99	5
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00450	
Cyathura polita		135		0.08100	
Macoma balthica		45		2.05650	
Marenzelleria viridis		450		0.19800	
Rangia cuneata		270		44.59950	
Total Abundance w/ Epi.		945			
Total Abundance w/o Epi.		945			
Number of Taxa w/ Epi.		5			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				46.93950	
Total Biomass w/o Epi.				46.93950	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Western Shore Gear: Wildco Box Corer		Station: 026 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 01SEP2004 Time: 16:30:53	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.7		Salinity (ppt): 0.94 Sediment Silt-Clay (%): 93.02		Temperature (C): 25.87 Total Carbon (%): 4.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.60		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.32	3	Pollution Indicative Species Abundance (%)	4.88	5
Abundance (#/m2)	1845	5	Pollution Indicative Species Biomass (%)	0.15	
Biomass (g/m2)	6.05	5	Pollution Sensitive Species Abundance (%)	78.05	
Carnivore-Omnivore Abundance (%)	17.07		Pollution Sensitive Species Biomass (%)	99.74	5
Deep Deposit Feeder Abundance (%)	7.32				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Coelotanypus spp.		90		0.00900	
Cyathura polita		225		0.09450	
Leptocheirus plumulosus		180		0.00450	
Littoridinops tenuipes (Epi)		90		0.00450	
Macoma balthica		45		3.32550	
Marenzelleria viridis		765		0.41400	
Rangia cuneata		405		2.20050	
Tubificoides spp.		135		0.00225	
Total Abundance w/ Epi.		1935			
Total Abundance w/o Epi.		1845			
Number of Taxa w/ Epi.		8			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				6.05475	
Total Biomass w/o Epi.				6.05025	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 17SEP2004 Time: 1:43:01	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 0.49 Sediment Silt-Clay (%): 68.28		Temperature (C): 23.20 Total Carbon (%): 1.87	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.67		Oligohaline Pollution Indicative Spp. Abund.	33.18	3
Abundance (#/m2)	9765	1	Tolerance Score	7.11	3
Deep Deposit Feeder Abundance (%)	26.73		Oligohaline Pollution Sensitive Spp. Abund.	6.91	3
Carnivore-Omnivore Abundance (%)	7.83	1	Tanypodidae/Chironomidae Abundance Ratio	78.57	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Chironomidae			0.00225		
Coelotanypus spp.	495		0.02700		
Cyathura polita	135		0.03150		
Gammarus daiberi (Epi)	135		0.00225		
Marenzelleria viridis	675		0.72900		
Oligochaeta			0.05850		
Polypedilum halterale group	135				
Rangia cuneata	5715		79.90200		
Tubificidae imm w/o cap chaetae	2520				
Tubificoides spp.	90		0.00225		
Total Abundance w/ Epi.	9900				
Total Abundance w/o Epi.	9765				
Number of Taxa w/ Epi.	8				
Number of Taxa w/o Epi.	7				
Total Biomass w/ Epi.			80.75475		
Total Biomass w/o Epi.			80.75250		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 17SEP2004 Time: 1:43:01	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 0.49 Sediment Silt-Clay (%): 68.28		Temperature (C): 23.20 Total Carbon (%): 1.87	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.36		Oligohaline Pollution Indicative Spp. Abund.	30.61	3
Abundance (#/m2)	6615	1	Tolerance Score	7.09	3
Deep Deposit Feeder Abundance (%)	27.21		Oligohaline Pollution Sensitive Spp. Abund.	2.72	3
Carnivore-Omnivore Abundance (%)	6.12	1	Tanypodinae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae almyra		45		0.01800	
Coelotanypus spp.		225		0.02250	
Cyathura polita		135		0.03150	
Marenzelleria viridis		135		0.10350	
Oligochaeta				0.05850	
Rangia cuneata		4275		32.91300	
Tubificidae imm w/o cap chaetae		1800			
Total Abundance w/ Epi.		6615			
Total Abundance w/o Epi.		6615			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		6			
Total Biomass w/ Epi.				33.14700	
Total Biomass w/o Epi.				33.14700	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 029 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 17SEP2004 Time: 1:43:01	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 0.49 Sediment Silt-Clay (%): 68.28		Temperature (C): 23.20 Total Carbon (%): 1.87	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.54		Oligohaline Pollution Indicative Spp. Abund.	43.45	3
Abundance (#/m2)	7560	1	Tolerance Score	7.55	3
Deep Deposit Feeder Abundance (%)	38.10		Oligohaline Pollution Sensitive Spp. Abund.	4.76	3
Carnivore-Omnivore Abundance (%)	6.55	1	Tanypodinae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Coelotanypus spp.		405		0.03600	
Cyathura polita		90		0.04050	
Gammarus spp. (Epi)		45		0.00225	
Marenzelleria viridis		360		0.58050	
Oligochaeta				0.10800	
Rangia cuneata		3825		52.96050	
Tubificidae imm w/o cap chaetae		2880			
Total Abundance w/ Epi.		7605			
Total Abundance w/o Epi.		7560			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				53.72775	
Total Biomass w/o Epi.				53.72550	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 01 Date: 20SEP2004 Time: 0:47:23	
BOTTOM ENVIRONMENT					
Depth (m): 2.2 Dissolved Oxygen (mg/l): 9.0		Salinity (ppt): 0.07 Sediment Silt-Clay (%): 84.08		Temperature (C): 18.01 Total Carbon (%): 3.09	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.50		Condition: Degraded		# Attributes Scored: 3	
	Value	Score		Value	Score
Shannon-Wiener Index	1.93		T.F. Pollution Indicative Spp. Abund. (%)	68.24	3
Abundance (#/m2)	7650	1	Tolerance Score	9.32	3
Deep Deposit Feeder Abundance (%)	85.88	3	Limnodrilus Abundance (%)	69.41	
Carnivore-Omnivore Abundance (%)	4.71				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Branchiura sowerbyi	450		1.33650		
Chironomidae			0.00225		
Chironomidae pupae	45		0.01800		
Chironomus spp.	45				
Coelotanypus spp.	180		0.05400		
Corbicula fluminea	495		27.59400		
Cryptochironomus spp.	90				
Limnodrilus cervix	90				
Limnodrilus hoffmeisteri	270				
Oligochaeta			0.40950		
Pisidium spp.	225		0.02700		
Tubificidae imm w cap chaetae	810				
Tubificidae imm w/o cap chaetae	4950				
Total Abundance w/ Epi.	7650				
Total Abundance w/o Epi.	7650				
Number of Taxa w/ Epi.	10				
Number of Taxa w/o Epi.	10				
Total Biomass w/ Epi.			29.44125		
Total Biomass w/o Epi.			29.44125		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 02 Date: 20SEP2004 Time: 0:47:23	
BOTTOM ENVIRONMENT					
Depth (m): 2.2 Dissolved Oxygen (mg/l): 9.0		Salinity (ppt): 0.07 Sediment Silt-Clay (%): 84.08		Temperature (C): 18.01 Total Carbon (%): 3.09	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.50		Condition: Degraded		# Attributes Scored: 3	
	Value	Score		Value	Score
Shannon-Wiener Index	2.22		T.F. Pollution Indicative Spp. Abund. (%)	64.62	3
Abundance (#/m2)	5850	1	Tolerance Score	9.18	3
Deep Deposit Feeder Abundance (%)	83.85	3	Limnodrilus Abundance (%)	64.62	
Carnivore-Omnivore Abundance (%)	6.15				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Branchiura sowerbyi	495		0.90000		
Chironomidae			0.00225		
Chironomus spp.	45				
Coelotanypus spp.	225		0.01800		
Corbicula fluminea	360		49.28400		
Cryptochironomus spp.	90				
Leptocheirus plumulosus	45		0.00225		
Limnodrilus hoffmeisteri	450				
Musculium spp.	90		0.00225		
Oligochaeta			0.21600		
Pisidium spp.	45		0.00450		
Tubificidae imm w cap chaetae	630				
Tubificidae imm w/o cap chaetae	3330				
Unionidae	45		6.20550		
Total Abundance w/ Epi.	5850				
Total Abundance w/o Epi.	5850				
Number of Taxa w/ Epi.	11				
Number of Taxa w/o Epi.	11				
Total Biomass w/ Epi.			56.63475		
Total Biomass w/o Epi.			56.63475		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 036 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 03 Date: 20SEP2004 Time: 0:47:23	
BOTTOM ENVIRONMENT					
Depth (m): 2.2 Dissolved Oxygen (mg/l): 9.0		Salinity (ppt): 0.07 Sediment Silt-Clay (%): 84.08		Temperature (C): 18.01 Total Carbon (%): 3.09	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.50		Condition: Meets Goal		# Attributes Scored: 3	
	Value	Score		Value	Score
Shannon-Wiener Index	2.33		T.F. Pollution Indicative Spp. Abund. (%)	62.30	3
Abundance (#/m2)	2745	5	Tolerance Score	9.08	3
Deep Deposit Feeder Abundance (%)	81.97	3	Limnodrilus Abundance (%)	62.30	
Carnivore-Omnivore Abundance (%)	11.48				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Branchiura sowerbyi	180		0.28800		
Chironomidae	225		0.00225		
Coelotanypus spp.	180		0.03150		
Corbicula fluminea	45		13.86000		
Cryptochironomus spp.	450		0.18450		
Limnodrilus hoffmeisteri	45				
Oligochaeta	360				
Procladius spp.	1260				
Tubificidae imm w cap chaetae					
Tubificidae imm w/o cap chaetae *					
Total Abundance w/ Epi.	2745				
Total Abundance w/o Epi.	2745				
Number of Taxa w/ Epi.	7				
Number of Taxa w/o Epi.	7				
Total Biomass w/ Epi.			14.36625		
Total Biomass w/o Epi.			14.36625		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 15SEP2004 Time: 14:25:00	
BOTTOM ENVIRONMENT					
Depth (m): 9.0 Dissolved Oxygen (mg/l): 5.9		Salinity (ppt): 0.66 Sediment Silt-Clay (%): 98.12		Temperature (C): 24.80 Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.51		Oligohaline Pollution Indicative Spp. Abund.	76.47	3
Abundance (#/m2)	1530	5	Tolerance Score	6.30	3
Deep Deposit Feeder Abundance (%)	2.94		Oligohaline Pollution Sensitive Spp. Abund.	5.88	3
Carnivore-Omnivore Abundance (%)	26.47	3	Tanypodidae/Chironomidae Abundance Ratio	85.71	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00225	
Coelotanypus spp.		270		0.03150	
Corbicula fluminea		45		0.03600	
Cyathura polita		90		0.01800	
Gammarus daiberi (Epi)		135		0.01800	
Harnischia spp.		45			
Hobsonia florida		45		0.00450	
Leptocheirus plumosus		720		0.09000	
Marenzelleria viridis		90		0.19350	
Rangia cuneata		90		0.01350	
Streblospio benedicti		90		0.00900	
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		1665			
Total Abundance w/o Epi.		1530			
Number of Taxa w/ Epi.		11			
Number of Taxa w/o Epi.		10			
Total Biomass w/ Epi.				0.41850	
Total Biomass w/o Epi.				0.40050	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 15SEP2004 Time: 14:25:00	
BOTTOM ENVIRONMENT					
Depth (m): 9.0 Dissolved Oxygen (mg/l): 5.9		Salinity (ppt): 0.66 Sediment Silt-Clay (%): 98.12		Temperature (C): 24.80 Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.71		Oligohaline Pollution Indicative Spp. Abund.	82.61	3
Abundance (#/m2)	1035	5	Tolerance Score	6.49	3
Deep Deposit Feeder Abundance (%)	0.00		Oligohaline Pollution Sensitive Spp. Abund.	4.35	3
Carnivore-Omnivore Abundance (%)	43.48	5	Tanypodinae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chaoborus punctipennis		45		0.00225	
Coelotanypus spp.		315		0.02250	
Cyathura polita		90		0.01800	
Gammarus daiberi (Epi)		90		0.01350	
Leptocheirus plumulosus		540		0.05400	
Marenzelleria viridis		45		0.01800	
Total Abundance w/ Epi.		1125			
Total Abundance w/o Epi.		1035			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				0.12825	
Total Biomass w/o Epi.				0.11475	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 040 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 15SEP2004 Time: 14:25:00	
BOTTOM ENVIRONMENT					
Depth (m): 9.0 Dissolved Oxygen (mg/l): 5.9		Salinity (ppt): 0.66 Sediment Silt-Clay (%): 98.12		Temperature (C): 24.80 Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.30		Oligohaline Pollution Indicative Spp. Abund.	37.50	3
Abundance (#/m2)	360	3	Tolerance Score	6.20	3
Deep Deposit Feeder Abundance (%)	0.00		Oligohaline Pollution Sensitive Spp. Abund.	62.50	5
Carnivore-Omnivore Abundance (%)	12.50	1	Tanypodidae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Coelotanypus spp.		45		0.00450	
Gammarus daiberi (Epi)		2790		0.60750	
Leptocheirus plumosus		90		0.00450	
Marenzelleria viridis		225		0.45900	
Total Abundance w/ Epi.		3150			
Total Abundance w/o Epi.		360			
Number of Taxa w/ Epi.		4			
Number of Taxa w/o Epi.		3			
Total Biomass w/ Epi.				1.07550	
Total Biomass w/o Epi.				0.46800	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 043 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 01 Date: 15SEP2004 Time: 13:00:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.6 Dissolved Oxygen (mg/l): 4.4		Salinity (ppt): 0.50 Sediment Silt-Clay (%): 8.66		Temperature (C): 25.40 Total Carbon (%): 0.17	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.62	5	Pollution Indicative Species Abundance (%)	29.11	1
Abundance (#/m2)	3160	3	Pollution Indicative Species Biomass (%)	0.66	
Biomass (g/m2)	4.25	3	Pollution Sensitive Species Abundance (%)	45.57	
Carnivore-Omnivore Abundance (%)	18.99		Pollution Sensitive Species Biomass (%)	84.42	5
Deep Deposit Feeder Abundance (%)	8.86				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		480		0.00200	
Cyathura polita		200		0.15600	
Edotea triloba (Epi)		40		0.00200	
Eteone heteropoda		80		0.01600	
Heteromastus filiformis		200		0.53200	
Leptocheirus plumulosus		280		0.04000	
Littoridinops tenuipes (Epi)		40		0.00800	
Marenzelleria viridis		1120		1.33200	
Neanthes succinea		320		0.06000	
Oligochaeta				0.00200	
Rangia cuneata		120		2.10000	
Streblospio benedicti		760		0.01200	
Tubificidae imm w/o cap chaetae		80			
Turbellaria (Epi)		80		0.00400	
Total Abundance w/ Epi.		3800			
Total Abundance w/o Epi.		3160			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				4.26600	
Total Biomass w/o Epi.				4.25000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River		Station: 043		Rep: 02	
Gear: Modified Box Corer		Habitat: Low Mesohaline		Date: 15SEP2004	
		Sampled Area: 0.025 sq. m		Time: 13:00:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.6		Salinity (ppt): 0.50		Temperature (C): 25.40	
Dissolved Oxygen (mg/l): 4.4		Sediment Silt-Clay (%): 8.66		Total Carbon (%): 0.17	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.20		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.48	3	Pollution Indicative Species Abundance (%)	5.17	5
Abundance (#/m2)	2320	5	Pollution Indicative Species Biomass (%)	0.08	
Biomass (g/m2)	4.91	3	Pollution Sensitive Species Abundance (%)	63.79	
Carnivore-Omnivore Abundance (%)	13.79		Pollution Sensitive Species Biomass (%)	89.93	5
Deep Deposit Feeder Abundance (%)	17.24				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cyathura polita		160		0.08400	
Heteromastus filiformis		200		0.39600	
Leptocheirus plumulosus		160		0.02800	
Littoridinops tenuipes (Epi)		440		0.06800	
Marenzelleria viridis		1080		1.34000	
Neanthes succinea		160		0.06400	
Rangia cuneata		240		2.98800	
Streblospio benedicti		120		0.00400	
Tubificoides spp.		200		0.00200	
Total Abundance w/ Epi.		2760			
Total Abundance w/o Epi.		2320			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				4.97400	
Total Biomass w/o Epi.				4.90600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 043 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 03 Date: 15SEP2004 Time: 13:00:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.6 Dissolved Oxygen (mg/l): 4.4		Salinity (ppt): 0.50 Sediment Silt-Clay (%): 8.66		Temperature (C): 25.40 Total Carbon (%): 0.17	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.45	3	Pollution Indicative Species Abundance (%)	21.31	1
Abundance (#/m2)	2440	5	Pollution Indicative Species Biomass (%)	0.26	
Biomass (g/m2)	4.62	3	Pollution Sensitive Species Abundance (%)	47.54	
Carnivore-Omnivore Abundance (%)	11.48		Pollution Sensitive Species Biomass (%)	82.38	5
Deep Deposit Feeder Abundance (%)	18.03				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cyathura polita		40		0.00200	
Edotea triloba (Epi)		40		0.00400	
Heteromastus filiformis		400		0.71200	
Hydrobiidae (Epi)		560		0.07600	
Leptocheirus plumulosus		120		0.02800	
Marenzelleria viridis		920		1.10800	
Neanthes succinea		240		0.06000	
Oligochaeta				0.00200	
Rangia cuneata		200		2.69600	
Streblospio benedicti		480		0.01200	
Tubificidae imm w/o cap chaetae		40			
Total Abundance w/ Epi.		3040			
Total Abundance w/o Epi.		2440			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				4.70000	
Total Biomass w/o Epi.				4.62000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 15SEP2004 Time: 13:25:00	
BOTTOM ENVIRONMENT					
Depth (m): 12.8 Dissolved Oxygen (mg/l): 4.4		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 81.82		Temperature (C): 25.53 Total Carbon (%): 2.17	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.20		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.89	3	Pollution Indicative Species Abundance (%)	3.45	5
Abundance (#/m2)	2610	3	Pollution Indicative Species Biomass (%)	0.20	
Biomass (g/m2)	5.68	5	Pollution Sensitive Species Abundance (%)	27.59	
Carnivore-Omnivore Abundance (%)	6.90		Pollution Sensitive Species Biomass (%)	96.48	5
Deep Deposit Feeder Abundance (%)	50.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cyathura polita		45		0.02700	
Eteone heteropoda		45		0.00225	
Leptocheirus plumulosus		405		0.04500	
Macoma balthica		675		5.45400	
Neanthes succinea		90		0.12150	
Neomysis americana (Epi)		45		0.00900	
Streblospio benedicti		45		0.00900	
Tubificoides spp.		1305		0.02250	
Total Abundance w/ Epi.		2655			
Total Abundance w/o Epi.		2610			
Number of Taxa w/ Epi.		8			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				5.69025	
Total Biomass w/o Epi.				5.68125	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer	Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m	Rep: 02 Date: 15SEP2004 Time: 13:25:00
BOTTOM ENVIRONMENT		
Depth (m): 12.8 Dissolved Oxygen (mg/l): 4.4	Salinity (ppt): 0.60 Sediment Silt-Clay (%): 81.82	Temperature (C): 25.53 Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.53 5	Pollution Indicative Species Abundance (%) 10.17 3
Abundance (#/m2)	2655 3	Pollution Indicative Species Biomass (%) 0.27
Biomass (g/m2)	1.67 3	Pollution Sensitive Species Abundance (%) 20.34
Carnivore-Omnivore Abundance (%)	13.56	Pollution Sensitive Species Biomass (%) 86.41 5
Deep Deposit Feeder Abundance (%)	33.90	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	270	0.07200
Leptocheirus plumulosus	495	0.06300
Leptosynapta tenuis	90	0.04950
Macoma balthica	495	1.19700
Melitanitida (Epi)	45	0.00225
Neanthes succinea	90	0.03600
Rangia cuneata	45	0.24750
Streblospio benedicti	270	0.00450
Tubificoides spp.	900	0.00225
Total Abundance w/ Epi.	2700	
Total Abundance w/o Epi.	2655	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		1.67400
Total Biomass w/o Epi.		1.67175

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 044 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 15SEP2004 Time: 13:25:00	
BOTTOM ENVIRONMENT					
Depth (m): 12.8 Dissolved Oxygen (mg/l): 4.4		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 81.82		Temperature (C): 25.53 Total Carbon (%): 2.17	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.80	3	Pollution Indicative Species Abundance (%)	8.62	5
Abundance (#/m2)	2610	3	Pollution Indicative Species Biomass (%)	0.48	
Biomass (g/m2)	3.72	3	Pollution Sensitive Species Abundance (%)	13.79	
Carnivore-Omnivore Abundance (%)	5.17		Pollution Sensitive Species Biomass (%)	90.56	5
Deep Deposit Feeder Abundance (%)	15.52				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Leptocheirus plumulosus		1485		0.11250	
Macoma balthica		360		3.36600	
Melita nitida (Epi)		90		0.00450	
Neanthes succinea		135		0.21150	
Neomysis americana (Epi)		135		0.04050	
Streblospio benedicti		225		0.01800	
Tubificoides spp.		405		0.00900	
Total Abundance w/ Epi.		2835			
Total Abundance w/o Epi.		2610			
Number of Taxa w/ Epi.		7			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				3.76200	
Total Biomass w/o Epi.				3.71700	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 01 Date: 15SEP2004 Time: 12:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 4.5		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 5.26		Temperature (C): 25.33 Total Carbon (%): 0.22	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.67	5	Pollution Indicative Species Abundance (%)	35.34	1
Abundance (#/m2)	5320	3	Pollution Indicative Species Biomass (%)	0.28	
Biomass (g/m2)	13.09	3	Pollution Sensitive Species Abundance (%)	24.06	
Carnivore-Omnivore Abundance (%)	9.77		Pollution Sensitive Species Biomass (%)	95.52	5
Deep Deposit Feeder Abundance (%)	27.82				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Edotea triloba (Epi)		120		0.00200	
Eteone heteropoda		120		0.00400	
Heteromastus filiformis		160		0.34800	
Hydrobiidae (Epi)		360		0.08400	
Leptocheirus plumulosus		160		0.02000	
Macoma balthica		80		4.57200	
Macoma mitchelli		80		0.02000	
Marenzelleria viridis		720		0.88800	
Neanthes succinea		400		0.14800	
Polydora cornuta		40		0.00200	
Rangia cuneata		480		7.04000	
Streblospio benedicti		1760		0.03200	
Tubificoides spp.		1320		0.01200	
Total Abundance w/ Epi.		5800			
Total Abundance w/o Epi.		5320			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				13.17200	
Total Biomass w/o Epi.				13.08600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 02 Date: 15SEP2004 Time: 12:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 4.5		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 5.26		Temperature (C): 25.33 Total Carbon (%): 0.22	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	3.06	5	Pollution Indicative Species Abundance (%)	15.94	3
Abundance (#/m2)	2760	3	Pollution Indicative Species Biomass (%)	0.19	
Biomass (g/m2)	10.26	3	Pollution Sensitive Species Abundance (%)	39.13	
Carnivore-Omnivore Abundance (%)	14.49		Pollution Sensitive Species Biomass (%)	86.12	5
Deep Deposit Feeder Abundance (%)	14.49				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Edotea triloba (Epi)		40		0.00200	
Eteone heteropoda		40		0.01200	
Heteromastus filiformis		240		0.32400	
Hydrobiidae (Epi)		160		0.02800	
Leptocheirus plumulosus		440		0.06000	
Macoma balthica		120		4.40400	
Macoma mitchelli		40		0.13600	
Marenzelleria viridis		400		0.46000	
Micrura lei dyi		40		0.81200	
Neanthes succinea		320		0.06400	
Rangia cuneata		560		3.97200	
Streblospio benedicti		400		0.00800	
Tubificoides spp.		160		0.00800	
Total Abundance w/ Epi.		2960			
Total Abundance w/o Epi.		2760			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				10.29000	
Total Biomass w/o Epi.				10.26000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Morgantown Discharge Gear: Modified Box Corer		Station: 047 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 03 Date: 15SEP2004 Time: 12:20:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 4.5		Salinity (ppt): 0.60 Sediment Silt-Clay (%): 5.26		Temperature (C): 25.33 Total Carbon (%): 0.22	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.93	5	Pollution Indicative Species Abundance (%)	28.00	1
Abundance (#/m2)	4000	3	Pollution Indicative Species Biomass (%)	0.24	
Biomass (g/m2)	12.58	3	Pollution Sensitive Species Abundance (%)	29.00	
Carnivore-Omnivore Abundance (%)	13.00		Pollution Sensitive Species Biomass (%)	91.44	5
Deep Deposit Feeder Abundance (%)	24.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Cyathura polita	40		0.05600		
Eteone heteropoda	80		0.00200		
Heteromastus filiformis	480		0.72800		
Hydrobiidae (Epi)	160		0.02400		
Leptocheirus plumulosus	160		0.01600		
Macoma mitchelli	160		0.15200		
Marenzelleria viridis	280		0.43200		
Neanthes succinea	400		0.14000		
Polydora cornuta	40		0.00200		
Rangia cuneata	840		11.01200		
Streblospio benedicti	1040		0.02800		
Tubificoides spp.	480		0.00800		
Total Abundance w/ Epi.	4160				
Total Abundance w/o Epi.	4000				
Number of Taxa w/ Epi.	12				
Number of Taxa w/o Epi.	11				
Total Biomass w/ Epi.			12.60000		
Total Biomass w/o Epi.			12.57600		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer	Station: 051 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m	Rep: 01 Date: 15SEP2004 Time: 10:04:00
BOTTOM ENVIRONMENT		
Depth (m): 2.8 Dissolved Oxygen (mg/l): 5.2	Salinity (ppt): 0.90 Sediment Silt-Clay (%): 2.62	Temperature (C): 24.47 Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	3.11 3	Pollution Indicative Species Abundance (%) 16.13 3
Abundance (#/m2)	1240 3	Pollution Indicative Species Biomass (%) 3.39
Biomass (g/m2)	2.84 3	Pollution Sensitive Species Abundance (%) 29.03 3
Carnivore-Omnivore Abundance (%)	35.48 5	Pollution Sensitive Species Biomass (%) 19.89
Deep Deposit Feeder Abundance (%)	19.35	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	80	0.01200
Cyathura polita	120	0.05200
Edwardsia elegans	40	0.00400
Eteone heteropoda	40	0.04400
Heteromastus filiformis	80	0.08800
Laeonereis culveri	120	0.68800
Leitoscoloplos spp.	160	0.05200
Macoma mitchelli	240	0.02800
Marenzelleria viridis	240	0.51200
Micrura lei dyi	120	1.35600
Total Abundance w/ Epi.	1240	
Total Abundance w/o Epi.	1240	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		2.83600
Total Biomass w/o Epi.		2.83600

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River		Station: 051		Rep: 02	
Gear: Modified Box Corer		Habitat: High Mesohaline Sand		Date: 15SEP2004	
		Sampled Area: 0.025 sq. m		Time: 10:04:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.8		Salinity (ppt): 0.90		Temperature (C): 24.47	
Dissolved Oxygen (mg/l): 5.2		Sediment Silt-Clay (%): 2.62		Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.76	3	Pollution Indicative Species Abundance (%)	18.00	3
Abundance (#/m2)	2000	5	Pollution Indicative Species Biomass (%)	0.54	
Biomass (g/m2)	1.84	3	Pollution Sensitive Species Abundance (%)	20.00	3
Carnivore-Omnivore Abundance (%)	14.00	1	Pollution Sensitive Species Biomass (%)	67.76	
Deep Deposit Feeder Abundance (%)	24.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		120		0.00200	
Glycinde solitaria		80		0.01200	
Heteromastus filiformis		240		0.10000	
Hirudinea (Epi)		40		0.00400	
Laeonereis culveri		160		0.16000	
Leitoscoloplos spp.		240		0.00800	
Macoma mitchelli		680		0.31200	
Marenzelleria viridis		320		1.23200	
Rictaxis punctostriatus		40		0.00800	
Streblospio benedicti		120		0.00200	
Total Abundance w/ Epi.		2040			
Total Abundance w/o Epi.		2000			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				1.84000	
Total Biomass w/o Epi.				1.83600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Modified Box Corer		Station: 051 Habitat: High Mesohaline Sand Sampled Area: 0.025 sq. m		Rep: 03 Date: 15SEP2004 Time: 10:04:00	
BOTTOM ENVIRONMENT					
Depth (m): 2.8 Dissolved Oxygen (mg/l): 5.2		Salinity (ppt): 0.90 Sediment Silt-Clay (%): 2.62		Temperature (C): 24.47 Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	3.14	3	Pollution Indicative Species Abundance (%)	19.30	3
Abundance (#/m2)	2280	5	Pollution Indicative Species Biomass (%)	0.60	
Biomass (g/m2)	3.34	5	Pollution Sensitive Species Abundance (%)	5.26	1
Carnivore-Omnivore Abundance (%)	31.58	3	Pollution Sensitive Species Biomass (%)	13.30	
Deep Deposit Feeder Abundance (%)	22.81				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		120		0.01600	
Carinoma tremaphoros		40		0.01200	
Edotea triloba (Epi)		80		0.00800	
Edwardsia elegans		200		0.00800	
Heteromastus filiformis		200		0.12000	
Laeonereis culveri		240		1.34800	
Leitoscoloplos spp.		320		0.00800	
Lepidactylus dytiscus		40		0.00200	
Macoma mitchelli		640		0.02800	
Marenzelleria viridis		120		0.44400	
Micrura leidyi		120		1.31600	
Neanthes succinea		120		0.02400	
Streblospio benedicti		120		0.01200	
Total Abundance w/ Epi.		2360			
Total Abundance w/o Epi.		2280			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		12			
Total Biomass w/ Epi.				3.34600	
Total Biomass w/o Epi.				3.33800	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 052 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 01 Date: 15SEP2004 Time: 15:15:00	
BOTTOM ENVIRONMENT					
Depth (m): 11.9 Dissolved Oxygen (mg/l): 4.6		Salinity (ppt): 0.80 Sediment Silt-Clay (%): 88.05		Temperature (C): 24.68 Total Carbon (%): 2.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%)	100.00	
Abundance (#/m2)	0	1	Pollution Indicative Species Biomass (%)	100.00	1
Biomass (g/m2)	0.00	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	0.00	1	Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
No Organisms Present				0.00225	
Total Abundance w/ Epi.					
Total Abundance w/o Epi.					
Number of Taxa w/ Epi.		0			
Number of Taxa w/o Epi.		0			
Total Biomass w/ Epi.				0.00225	
Total Biomass w/o Epi.				0.00225	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River Gear: Wildco Box Corer		Station: 052 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 02 Date: 15SEP2004 Time: 15:15:00	
BOTTOM ENVIRONMENT					
Depth (m): 11.9 Dissolved Oxygen (mg/l): 4.6		Salinity (ppt): 0.80 Sediment Silt-Clay (%): 88.05		Temperature (C): 24.68 Total Carbon (%): 2.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%)	100.00	
Abundance (#/m2)	0	1	Pollution Indicative Species Biomass (%)	100.00	1
Biomass (g/m2)	0.00	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	0.00	1	Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
No Organisms Present				0.00225	
Total Abundance w/ Epi.					
Total Abundance w/o Epi.					
Number of Taxa w/ Epi.		0			
Number of Taxa w/o Epi.		0			
Total Biomass w/ Epi.				0.00225	
Total Biomass w/o Epi.				0.00225	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Potomac River		Station: 052		Rep: 03	
Gear: Wildco Box Corer		Habitat: High Mesohaline Mud		Date: 15SEP2004	
		Sampled Area: 0.022 sq. m		Time: 15:15:00	
BOTTOM ENVIRONMENT					
Depth (m): 11.9		Salinity (ppt): 0.80		Temperature (C): 24.68	
Dissolved Oxygen (mg/l): 4.6		Sediment Silt-Clay (%): 88.05		Total Carbon (%): 2.86	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%)	100.00	
Abundance (#/m2)	0	1	Pollution Indicative Species Biomass (%)	100.00	1
Biomass (g/m2)	0.00	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	0.00	1	Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
No Organisms Present				0.00225	
Total Abundance w/ Epi.					
Total Abundance w/o Epi.					
Number of Taxa w/ Epi.		0			
Number of Taxa w/o Epi.		0			
Total Biomass w/ Epi.				0.00225	
Total Biomass w/o Epi.				0.00225	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar		Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 01 Date: 29SEP2004 Time: 2:34:54	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 6.6		Salinity (ppt): 5.19 Sediment Silt-Clay (%): 89.48		Temperature (C): 21.63 Total Carbon (%): 3.91	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.20		Condition: Degraded		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.02	1	Pollution Indicative Species Abundance (%)	1.01	5
Abundance (#/m2)	7920	1	Pollution Indicative Species Biomass (%)	2.04	
Biomass (g/m2)	0.88	1	Pollution Sensitive Species Abundance (%)	5.56	
Carnivore-Omnivore Abundance (%)	1.01		Pollution Sensitive Species Biomass (%)	72.56	3
Deep Deposit Feeder Abundance (%)	83.33				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Americamysis almyra (Epi)		40		0.00200	
Ameroculodes species complex		320		0.00800	
Coelotanypus spp.		40		0.01600	
Cyathura polita		40		0.04400	
Edotea triloba (Epi)		160		0.01200	
Gammarus daiberi (Epi)		280		0.02400	
Leptocheirus plumulosus		400		0.09200	
Macoma mitchelli		80		0.06800	
Marenzelleria viridis		400		0.59600	
Melitaniida (Epi)		80		0.00200	
Neomysis americana (Epi)		40		0.00200	
Streblospio benedicti		40		0.00200	
Tubificoides spp.		6600		0.05600	
Total Abundance w/ Epi.		8520			
Total Abundance w/o Epi.		7920			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				0.92400	
Total Biomass w/o Epi.				0.88200	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar		Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m		Rep: 02 Date: 29SEP2004 Time: 2:34:54	
BOTTOM ENVIRONMENT					
Depth (m): 6.0 Dissolved Oxygen (mg/l): 6.6		Salinity (ppt): 5.19 Sediment Silt-Clay (%): 89.48		Temperature (C): 21.63 Total Carbon (%): 3.91	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.32	1	Pollution Indicative Species Abundance (%)	1.40	5
Abundance (#/m2)	5720	3	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	7.35	5	Pollution Sensitive Species Abundance (%)	10.49	
Carnivore-Omnivore Abundance (%)	2.10		Pollution Sensitive Species Biomass (%)	98.04	5
Deep Deposit Feeder Abundance (%)	80.42				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		160		0.00800	
Carinoma tremaphoros		120		0.01600	
Edotea triloba (Epi)		80		0.01200	
Heteromastus filiformis		40		0.00200	
Leptocheirus plumulosus		160		0.01200	
Macoma balthica		120		5.87600	
Macoma mitchelli		80		0.04400	
Marenzelleria viridis		480		1.32800	
Neomysis americana (Epi)		40		0.00400	
Oligochaeta				0.00200	
Tubificidae imm w/o cap chaetae		80			
Tubificoides spp.		4480		0.06000	
Total Abundance w/ Epi.		5840			
Total Abundance w/o Epi.		5720			
Number of Taxa w/ Epi.		11			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				7.36400	
Total Biomass w/o Epi.				7.34800	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Eastern Shore Gear: Petite Ponar	Station: 062 Habitat: Low Mesohaline Sampled Area: 0.025 sq. m	Rep: 03 Date: 29SEP2004 Time: 2:34:54
BOTTOM ENVIRONMENT		
Depth (m): 6.0 Dissolved Oxygen (mg/l): 6.6	Salinity (ppt): 5.19 Sediment Silt-Clay (%): 89.48	Temperature (C): 21.63 Total Carbon (%): 3.91
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.80	Condition: Severely Degr.	# Attributes Scored: 5
	Value	Score
Shannon-Wiener Index	0.70	1
Abundance (#/m2)	9600	1
Biomass (g/m2)	0.43	1
Carnivore-Omnivore Abundance (%)	2.08	
Deep Deposit Feeder Abundance (%)	89.58	
	Pollution Indicative Species Abundance (%)	0.83
	Pollution Indicative Species Biomass (%)	0.93
	Pollution Sensitive Species Abundance (%)	1.25
	Pollution Sensitive Species Biomass (%)	39.25
		1
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	120	0.00400
Carinoma tremaphoros	160	0.11600
Cyathura polita	40	0.01600
Edotea triloba (Epi)	160	0.00200
Leptocheirus plumulosus	520	0.04000
Marenzelleria viridis	80	0.15200
Neomysis americana (Epi)	80	0.00200
Streblospio benedicti	80	0.00400
Tubificoides spp.	8600	0.09600
Total Abundance w/ Epi.	9840	
Total Abundance w/o Epi.	9600	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		0.43200
Total Biomass w/o Epi.		0.42800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 01 Date: 30SEP2004 Time: 2:55:18	
BOTTOM ENVIRONMENT					
Depth (m): 9.4 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 9.64 Sediment Silt-Clay (%): 95.27		Temperature (C): 21.34 Total Carbon (%): 2.08	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.19	3	Pollution Indicative Species Abundance (%)	5.45	
Abundance (#/m2)	2475	5	Pollution Indicative Species Biomass (%)	0.00	5
Biomass (g/m2)	7.03	5	Pollution Sensitive Species Abundance (%)	12.73	
Carnivore-Omnivore Abundance (%)	16.36	3	Pollution Sensitive Species Biomass (%)	91.39	5
Deep Deposit Feeder Abundance (%)	67.27				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		180		0.03600	
Cyathura polita		45		0.20250	
Heteromastus filiformis		90		0.06300	
Macoma balthica		180		6.22350	
Macoma mitchelli		135		0.40050	
Neanthes succinea		180		0.09900	
Oligochaeta				0.00225	
Rangia cuneata		90		0.00225	
Tubificidae imm w/o cap chaetae		135			
Tubificoides spp.		1440		0.00450	
Total Abundance w/ Epi.		2475			
Total Abundance w/o Epi.		2475			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				7.03350	
Total Biomass w/o Epi.				7.03350	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 02 Date: 30SEP2004 Time: 2:55:18	
BOTTOM ENVIRONMENT					
Depth (m): 9.4 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 9.64 Sediment Silt-Clay (%): 95.27		Temperature (C): 21.34 Total Carbon (%): 2.08	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.70	1	Pollution Indicative Species Abundance (%)	7.63	
Abundance (#/m2)	5310	1	Pollution Indicative Species Biomass (%)	0.21	5
Biomass (g/m2)	8.38	5	Pollution Sensitive Species Abundance (%)	6.78	
Carnivore-Omnivore Abundance (%)	11.86	3	Pollution Sensitive Species Biomass (%)	84.65	5
Deep Deposit Feeder Abundance (%)	76.27				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		135		0.06300	
Cyathura polita		45		0.25650	
Glycynde solitaria		90		0.02700	
Heteromastus filiformis		135		0.04050	
Macoma balthica		225		6.81300	
Macoma mitchelli		90		0.30600	
Neanthes succinea		315		0.82350	
Oligochaeta				0.00225	
Parahesione luteola		45		0.00225	
Streblospio benedicti		315		0.01800	
Tubificidae imm w/o cap chaetae		90			
Tubificoides spp.		3825		0.03150	
Total Abundance w/ Epi.		5310			
Total Abundance w/o Epi.		5310			
Number of Taxa w/ Epi.		11			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				8.38350	
Total Biomass w/o Epi.				8.38350	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 064 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 03 Date: 30SEP2004 Time: 2:55:18	
BOTTOM ENVIRONMENT					
Depth (m): 9.4 Dissolved Oxygen (mg/l): 7.3		Salinity (ppt): 9.64 Sediment Silt-Clay (%): 95.27		Temperature (C): 21.34 Total Carbon (%): 2.08	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.33		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.09	3	Pollution Indicative Species Abundance (%)	11.11	
Abundance (#/m2)	2430	5	Pollution Indicative Species Biomass (%)	0.35	5
Biomass (g/m2)	6.50	5	Pollution Sensitive Species Abundance (%)	9.26	
Carnivore-Omnivore Abundance (%)	20.37	3	Pollution Sensitive Species Biomass (%)	86.18	5
Deep Deposit Feeder Abundance (%)	59.26				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Amphiporus bioculatus		45		0.00225	
Carinoma tremaphoros		180		0.06300	
Edotea triloba (Epi)		45		0.00225	
Heteromastus filiformis		90		0.02250	
Macoma balthica		225		5.59800	
Mulinia lateralis		90		0.01350	
Neanthes succinea		270		0.77850	
Streblospio benedicti		180		0.00900	
Tubificoides spp.		1350		0.00900	
Total Abundance w/ Epi.		2475			
Total Abundance w/o Epi.		2430			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				6.49800	
Total Biomass w/o Epi.				6.49575	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 29SEP2004 Time: 5:32:40	
BOTTOM ENVIRONMENT					
Depth (m): 3.8 Dissolved Oxygen (mg/l): 7.2		Salinity (ppt): 1.58 Sediment Silt-Clay (%): 91.76		Temperature (C): 21.78 Total Carbon (%): 6.06	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.63		Oligohaline Pollution Indicative Spp. Abund.	75.00	3
Abundance (#/m2)	1620	5	Tolerance Score	8.30	3
Deep Deposit Feeder Abundance (%)	22.22		Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	30.56	3	Tanypodinae/Chironomidae Abundance Ratio	83.33	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		135		0.00450	
Chaoborus punctipennis		225		0.02250	
Chironomidae				0.00225	
Coelotanypus spp.		225		0.02250	
Cryptochironomus spp.		45			
Gammarus spp. (Epi)		45		0.00225	
Leptocheirus plumulosus		585		0.06750	
Limnodrilus hoffmeisteri		45			
Oligochaeta				0.00225	
Streblospio benedicti		45		0.00225	
Tubificidae imm w/o cap chaetae *		270			
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		1665			
Total Abundance w/o Epi.		1620			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		8			
Total Biomass w/ Epi.				0.12825	
Total Biomass w/o Epi.				0.12600	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 29SEP2004 Time: 5:32:40	
BOTTOM ENVIRONMENT					
Depth (m): 3.8 Dissolved Oxygen (mg/l): 7.2		Salinity (ppt): 1.58 Sediment Silt-Clay (%): 91.76		Temperature (C): 21.78 Total Carbon (%): 6.06	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.63		Oligohaline Pollution Indicative Spp. Abund.	92.86	3
Abundance (#/m2)	630	5	Tolerance Score	9.80	1
Deep Deposit Feeder Abundance (%)	21.43		Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	7.14	1	Tanypodinae/Chironomidae Abundance Ratio	0.00	5
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00225	
Chironomidae				0.00225	
Edotea triloba (Epi)		45		0.00225	
Gammarus daiberi (Epi)		225		0.02250	
Leptocheirus plumulosus		405		0.06750	
Limnodrilus hoffmeisteri		45			
Melitaniida (Epi)		45		0.00225	
Neomysis americana (Epi)		45		0.02250	
Oligochaeta				0.00225	
Polypedilum illinoense group		45			
Tubificoides spp.		90		0.00225	
Total Abundance w/ Epi.		990			
Total Abundance w/o Epi.		630			
Number of Taxa w/ Epi.		9			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				0.12600	
Total Biomass w/o Epi.				0.07650	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Choptank River Gear: Wildco Box Corer		Station: 066 Habitat: Oligohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 29SEP2004 Time: 5:32:40	
BOTTOM ENVIRONMENT					
Depth (m): 3.8 Dissolved Oxygen (mg/l): 7.2		Salinity (ppt): 1.58 Sediment Silt-Clay (%): 91.76		Temperature (C): 21.78 Total Carbon (%): 6.06	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.28		Oligohaline Pollution Indicative Spp. Abund.	81.82	3
Abundance (#/m2)	1485	5	Tolerance Score	8.14	3
Deep Deposit Feeder Abundance (%)	36.36		Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	42.42	5	Tanypodinae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chaoborus punctipennis		270		0.02250	
Coelotanypus spp.		360		0.03600	
Gammarus daiberi (Epi)		135		0.00450	
Leptocheirus plumulosus		315		0.05400	
Oligochaeta				0.00450	
Tubificidae imm w/o cap chaetae		360			
Tubificoides spp.		180		0.00225	
Total Abundance w/ Epi.		1620			
Total Abundance w/o Epi.		1485			
Number of Taxa w/ Epi.		6			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				0.12375	
Total Biomass w/o Epi.				0.11925	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 30SEP2004 Time: 8:15:25	
BOTTOM ENVIRONMENT					
Depth (m): 4.5 Dissolved Oxygen (mg/l): 7.5		Salinity (ppt): 6.00 Sediment Silt-Clay (%): 89.28		Temperature (C): 21.87 Total Carbon (%): 2.48	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.72	5	Pollution Indicative Species Abundance (%)	32.22	1
Abundance (#/m2)	4050	3	Pollution Indicative Species Biomass (%)	1.12	
Biomass (g/m2)	2.61	3	Pollution Sensitive Species Abundance (%)	10.00	
Carnivore-Omnivore Abundance (%)	10.00		Pollution Sensitive Species Biomass (%)	89.83	5
Deep Deposit Feeder Abundance (%)	53.33				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00450	
Chironomidae				0.00225	
Coelotanypus spp.		45		0.00225	
Cyathura polita		135		0.02700	
Edotea triloba (Epi)		90		0.00225	
Eteone heteropoda		135		0.01350	
Harnischia spp.		45			
Heteromastus filiformis		270		0.13950	
Leptocheirus plumulosus		180		0.01800	
Macoma balthica		135		0.36000	
Macoma mitchelli		45		0.04950	
Marenzelleria viridis		90		0.55800	
Neanthes succinea		45		0.00225	
Oligochaeta				0.00225	
Rangia cuneata		45		1.39950	
Streblospio benedicti		945		0.01350	
Tubificidae imm w/o cap chaetae		180			
Tubificoides spp.		1710		0.01800	
Total Abundance w/ Epi.		4140			
Total Abundance w/o Epi.		4050			
Number of Taxa w/ Epi.		16			
Number of Taxa w/o Epi.		15			
Total Biomass w/ Epi.				2.61225	
Total Biomass w/o Epi.				2.61000	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 30SEP2004 Time: 8:15:25	
BOTTOM ENVIRONMENT					
Depth (m): 4.5 Dissolved Oxygen (mg/l): 7.5		Salinity (ppt): 6.00 Sediment Silt-Clay (%): 89.28		Temperature (C): 21.87 Total Carbon (%): 2.48	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.02	3	Pollution Indicative Species Abundance (%)	18.75	3
Abundance (#/m2)	5040	3	Pollution Indicative Species Biomass (%)	0.34	
Biomass (g/m2)	3.92	3	Pollution Sensitive Species Abundance (%)	17.86	
Carnivore-Omnivore Abundance (%)	8.04		Pollution Sensitive Species Biomass (%)	95.76	5
Deep Deposit Feeder Abundance (%)	61.61				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	45		0.00900		
Cyathura polita	315		0.25200		
Edotea triloba (Epi)	315		0.01350		
Eteone heteropoda	45		0.00900		
Heteromastus filiformis	45		0.09000		
Leptocheirus plumulosus	45		0.00225		
Macoma balthica	225		1.59300		
Macoma mitchelli	45		0.01800		
Marenzelleria viridis	90		0.31050		
Oligochaeta			0.00225		
Rangia cuneata	270		1.60200		
Streblospio benedicti	855		0.00450		
Tubificidae imm w/o cap chaetae	45				
Tubificoides spp.	3015		0.03150		
Total Abundance w/ Epi.	5355				
Total Abundance w/o Epi.	5040				
Number of Taxa w/ Epi.	13				
Number of Taxa w/o Epi.	12				
Total Biomass w/ Epi.			3.93750		
Total Biomass w/o Epi.			3.92400		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Upper Eastern Shore Gear: Wildco Box Corer		Station: 068 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 30SEP2004 Time: 8:15:25	
BOTTOM ENVIRONMENT					
Depth (m): 4.5 Dissolved Oxygen (mg/l): 7.5		Salinity (ppt): 6.00 Sediment Silt-Clay (%): 89.28		Temperature (C): 21.87 Total Carbon (%): 2.48	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.92	3	Pollution Indicative Species Abundance (%)	11.36	3
Abundance (#/m2)	3960	3	Pollution Indicative Species Biomass (%)	0.06	
Biomass (g/m2)	3.61	3	Pollution Sensitive Species Abundance (%)	17.05	
Carnivore-Omnivore Abundance (%)	5.68		Pollution Sensitive Species Biomass (%)	88.67	5
Deep Deposit Feeder Abundance (%)	71.59				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		45		0.00225	
Carinoma tremaphoros		45		0.13950	
Cyathura polita		135		0.14850	
Edotea triloba (Epi)		90		0.00900	
Edwardsia elegans		45		0.20700	
Heteromastus filiformis		45		0.04050	
Leptocheirus plumulosus		45		0.00225	
Macoma balthica		225		2.09700	
Marenzelleria viridis		315		0.95850	
Oligochaeta				0.00225	
Streblospio benedicti		270		0.00225	
Tubificidae imm w/o cap chaetae		180			
Tubificoides spp.		2610		0.01350	
Total Abundance w/ Epi.		4050			
Total Abundance w/o Epi.		3960			
Number of Taxa w/ Epi.		12			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				3.62250	
Total Biomass w/o Epi.				3.61350	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 01 Date: 03SEP2004 Time: 11:40:01	
BOTTOM ENVIRONMENT					
Depth (m): 13.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 11.27 Sediment Silt-Clay (%): 95.83		Temperature (C): 26.24 Total Carbon (%): 3.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.82	1	Pollution Indicative Species Abundance (%)	7.69	
Abundance (#/m2)	585	1	Pollution Indicative Species Biomass (%)	0.35	5
Biomass (g/m2)	1.28	3	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	61.54	5	Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	45		0.16650		
Leptocheirus plumulosus	45		0.01800		
Macoma mitchelli	135		0.51750		
Mulinia lateralis	45		0.00450		
Mysidae (Epi)	45		0.00900		
Neanthes succinea	315		0.57150		
Total Abundance w/ Epi.	630				
Total Abundance w/o Epi.	585				
Number of Taxa w/ Epi.	6				
Number of Taxa w/o Epi.	5				
Total Biomass w/ Epi.			1.28700		
Total Biomass w/o Epi.			1.27800		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 02 Date: 03SEP2004 Time: 11:40:01	
BOTTOM ENVIRONMENT					
Depth (m): 13.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 11.27 Sediment Silt-Clay (%): 95.83		Temperature (C): 26.24 Total Carbon (%): 3.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.61	3	Pollution Indicative Species Abundance (%)	0.00	
Abundance (#/m2)	675	1	Pollution Indicative Species Biomass (%)	0.00	5
Biomass (g/m2)	0.52	3	Pollution Sensitive Species Abundance (%)	13.33	
Carnivore-Omnivore Abundance (%)	53.33	5	Pollution Sensitive Species Biomass (%)	3.49	1
Deep Deposit Feeder Abundance (%)	6.67				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cari noma tremaphoros		45		0.11250	
Glyci nde sol ita r i a		90		0.01800	
Heteromastus fili formis		45		0.00900	
Leptocheirus plumulosus		135		0.00450	
Macoma mitchelli		135		0.28350	
Neanthes succinea		180		0.08550	
Neomysis americana (Epi)		45		0.00225	
Sigambra tentaculata		45		0.00225	
Total Abundance w/ Epi.		720			
Total Abundance w/o Epi.		675			
Number of Taxa w/ Epi.		8			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				0.51750	
Total Biomass w/o Epi.				0.51525	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 071 Habitat: High Mesohaline Mud Sampled Area: 0.022 sq. m		Rep: 03 Date: 03SEP2004 Time: 11:40:01	
BOTTOM ENVIRONMENT					
Depth (m): 13.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 11.27 Sediment Silt-Clay (%): 95.83		Temperature (C): 26.24 Total Carbon (%): 3.23	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.28	1	Pollution Indicative Species Abundance (%)	5.88	
Abundance (#/m2)	765	1	Pollution Indicative Species Biomass (%)	0.94	5
Biomass (g/m2)	0.24	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	17.65	3	Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	5.88				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Leptocheirus plumulosus		540		0.10800	
Mulinia lateralis		45		0.00225	
Neanthes succinea		135		0.12600	
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		765			
Total Abundance w/o Epi.		765			
Number of Taxa w/ Epi.		4			
Number of Taxa w/o Epi.		4			
Total Biomass w/ Epi.				0.23850	
Total Biomass w/o Epi.				0.23850	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 28SEP2004 Time: 1:02:46	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.5		Salinity (ppt): 7.94 Sediment Silt-Clay (%): 93.62		Temperature (C): 23.84 Total Carbon (%): 2.81	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.40		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.05	3	Pollution Indicative Species Abundance (%)	14.78	3
Abundance (#/m2)	9135	1	Pollution Indicative Species Biomass (%)	0.14	
Biomass (g/m2)	6.46	5	Pollution Sensitive Species Abundance (%)	11.33	
Carnivore-Omnivore Abundance (%)	4.93		Pollution Sensitive Species Biomass (%)	91.61	5
Deep Deposit Feeder Abundance (%)	71.92				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Carinoma tremaphoros		135		0.09000	
Cyathura polita		270		0.21150	
Edotea triloba (Epi)		45		0.00225	
Heteromastus filiformis		45		0.03150	
Leptocheirus plumulosus		1125		0.12600	
Macoma balthica		630		5.65200	
Macoma mitchelli		135		0.17550	
Melitaniida (Epi)		90		0.00900	
Neanthes succinea		45		0.00225	
Oligochaeta				0.04950	
Rangia cuneata		135		0.05850	
Streblospio benedicti		90		0.00900	
Tubificidae imm w/o cap chaetae		1260			
Tubificoides spp.		5265		0.05850	
Total Abundance w/ Epi.		9270			
Total Abundance w/o Epi.		9135			
Number of Taxa w/ Epi.		13			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				6.47550	
Total Biomass w/o Epi.				6.46425	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 28SEP2004 Time: 1:02:46	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.5		Salinity (ppt): 7.94 Sediment Silt-Clay (%): 93.62		Temperature (C): 23.84 Total Carbon (%): 2.81	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 4.20		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.04	3	Pollution Indicative Species Abundance (%)	5.81	5
Abundance (#/m2)	3870	3	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	6.30	5	Pollution Sensitive Species Abundance (%)	18.60	
Carnivore-Omnivore Abundance (%)	5.81		Pollution Sensitive Species Biomass (%)	97.32	5
Deep Deposit Feeder Abundance (%)	61.63				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cari noma tremaphoros		90		0.01350	
Cyathura pol ita		135		0.28350	
Leptochei rus pl umul osus		540		0.10350	
Macoma bal thi ca		540		5.84100	
Macoma mi tchelli		135		0.02700	
Oli gochaeta				0.00225	
Rangia cuneata		45		0.00225	
Tubi fici dae imm w/o cap chaetae		225			
Tubi fici des spp.		2160		0.02250	
Total Abundance w/ Epi .		3870			
Total Abundance w/o Epi .		3870			
Number of Taxa w/ Epi .		8			
Number of Taxa w/o Epi .		8			
Total Biomass w/ Epi .				6.29550	
Total Biomass w/o Epi .				6.29550	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Chalk Point Discharge Gear: Wildco Box Corer		Station: 074 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 28SEP2004 Time: 1:02:46	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 6.5		Salinity (ppt): 7.94 Sediment Silt-Clay (%): 93.62		Temperature (C): 23.84 Total Carbon (%): 2.81	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 5.00		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.73	5	Pollution Indicative Species Abundance (%)	8.89	5
Abundance (#/m2)	2025	5	Pollution Indicative Species Biomass (%)	0.03	
Biomass (g/m2)	6.54	5	Pollution Sensitive Species Abundance (%)	26.67	
Carnivore-Omnivore Abundance (%)	13.33		Pollution Sensitive Species Biomass (%)	91.95	5
Deep Deposit Feeder Abundance (%)	46.67				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	90		0.03600		
Cyathura polita	180		0.25650		
Heteromastus filiformis	135		0.08100		
Leptocheirus plumulosus	270		0.01800		
Macoma balthica	360		5.76000		
Macoma mitchelli	90		0.37800		
Oligochaeta			0.00225		
Streblospio benedicti	90		0.00225		
Tubificidae imm w/o cap chaetae	90				
Tubificoides spp.	720		0.00900		
Total Abundance w/ Epi.	2025				
Total Abundance w/o Epi.	2025				
Number of Taxa w/ Epi.	9				
Number of Taxa w/o Epi.	9				
Total Biomass w/ Epi.			6.54300		
Total Biomass w/o Epi.			6.54300		

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 28SEP2004 Time: 23:21:52	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 5.6		Salinity (ppt): 3.63 Sediment Silt-Clay (%): 92.71		Temperature (C): 23.13 Total Carbon (%): 4.1	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.80		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.87	3	Pollution Indicative Species Abundance (%)	56.67	1
Abundance (#/m2)	2700	3	Pollution Indicative Species Biomass (%)	23.68	
Biomass (g/m2)	0.17	1	Pollution Sensitive Species Abundance (%)	5.00	
Carnivore-Omnivore Abundance (%)	5.00		Pollution Sensitive Species Biomass (%)	36.84	1
Deep Deposit Feeder Abundance (%)	15.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Ameroculodes species complex		90		0.00450	
Coelotanypus spp.		45		0.01350	
Cyathura polita		90		0.02250	
Edotea triloba (Epi)		225		0.01800	
Gammarus dalberi (Epi)		45		0.00900	
Leptocheirus plumulosus		540		0.05400	
Marenzelleria viridis		45		0.04050	
Melitaniida (Epi)		135		0.00900	
Streblospio benedicti		1485		0.02700	
Tubificoides spp.		405		0.00900	
Total Abundance w/ Epi.		3105			
Total Abundance w/o Epi.		2700			
Number of Taxa w/ Epi.		10			
Number of Taxa w/o Epi.		7			
Total Biomass w/ Epi.				0.20700	
Total Biomass w/o Epi.				0.17100	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 28SEP2004 Time: 23:21:52	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 5.6		Salinity (ppt): 3.63 Sediment Silt-Clay (%): 92.71		Temperature (C): 23.13 Total Carbon (%): 4.1	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.80		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.01	3	Pollution Indicative Species Abundance (%)	59.46	1
Abundance (#/m2)	4995	3	Pollution Indicative Species Biomass (%)	35.11	
Biomass (g/m2)	0.29	1	Pollution Sensitive Species Abundance (%)	9.01	
Carnivore-Omnivore Abundance (%)	3.60		Pollution Sensitive Species Biomass (%)	35.88	1
Deep Deposit Feeder Abundance (%)	12.61				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Americamysis almyra (Epi)		90		0.00225	
Ameroculodes species complex		90		0.00225	
Coelotanypus spp.		45		0.03150	
Cyathura polita		135		0.02250	
Edotea triloba (Epi)		135		0.00225	
Gammarus daiberi (Epi)		90		0.00225	
Hobsonia florida		45		0.00450	
Leptocheirus plumulosus		720		0.06300	
Macoma mitchelli		90		0.00225	
Marenzelleria viridis		225		0.08100	
Melitaniida (Epi)		45		0.00450	
Rangia cuneata		90		0.00225	
Streblospio benedicti		2925		0.07200	
Tubificoides spp.		630		0.01350	
Total Abundance w/ Epi.		5355			
Total Abundance w/o Epi.		4995			
Number of Taxa w/ Epi.		14			
Number of Taxa w/o Epi.		10			
Total Biomass w/ Epi.				0.30600	
Total Biomass w/o Epi.				0.29475	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 077 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 28SEP2004 Time: 23:21:52	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 5.6		Salinity (ppt): 3.63 Sediment Silt-Clay (%): 92.71		Temperature (C): 23.13 Total Carbon (%): 4.1	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.40		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.67	1	Pollution Indicative Species Abundance (%)	60.74	1
Abundance (#/m2)	12150	1	Pollution Indicative Species Biomass (%)	29.24	
Biomass (g/m2)	0.62	1	Pollution Sensitive Species Abundance (%)	3.70	
Carnivore-Omnivore Abundance (%)	0.37		Pollution Sensitive Species Biomass (%)	41.16	3
Deep Deposit Feeder Abundance (%)	24.81				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Apocorophium lacustre (Epi)		45		0.00225	
Edotea triloba (Epi)		45		0.00225	
Eteone heteropoda		45		0.00225	
Gammarus daiberi (Epi)		135		0.00450	
Leptocheirus plumulosus		1350		0.14850	
Macoma mitchelli		135		0.00225	
Marenzelleria viridis		180		0.23400	
Mediomastus ambiseta		90		0.00450	
Melitaniida (Epi)		135		0.00225	
Oligochaeta				0.00225	
Rangia cuneata		180		0.01800	
Streblospio benedicti		7245		0.18000	
Tubificidae imm w/o cap chaetae		90			
Tubificoides spp.		2835		0.03150	
Turbellaria (Epi)		90		0.00225	
Total Abundance w/ Epi.		12600			
Total Abundance w/o Epi.		12150			
Number of Taxa w/ Epi.		14			
Number of Taxa w/o Epi.		9			
Total Biomass w/ Epi.				0.63675	
Total Biomass w/o Epi.				0.62325	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 01 Date: 28SEP2004 Time: 21:28:54	
BOTTOM ENVIRONMENT					
Depth (m): 1.0 Dissolved Oxygen (mg/l): 5.6		Salinity (ppt): 0.21 Sediment Silt-Clay (%): 90.47		Temperature (C): 21.82 Total Carbon (%): 5.37	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 3	
	Value	Score		Value	Score
Shannon-Wiener Index	2.39		T.F. Pollution Indicative Spp. Abund. (%)	35.71	5
Abundance (#/m2)	5040	3	Tolerance Score	9.20	3
Deep Deposit Feeder Abundance (%)	97.32	1	Limnodrilus Abundance (%)	35.71	
Carnivore-Omnivore Abundance (%)	2.68				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Aulodrilus pigueti	270				
Branchiura sowerbyi	180		0.10800		
Chironomidae			0.00225		
Coelotanypus spp.	45		0.00900		
Cryptochironomus spp.	90				
Hydrophilus templetoni	720				
Oligochaeta			0.35100		
Quistadrilus multisetosus	180				
Tubificidae imm w cap chaetae *	1530				
Tubificidae imm w/o cap chaetae	1800				
Tubificoides spp.	225		0.00225		
Total Abundance w/ Epi.	5040				
Total Abundance w/o Epi.	5040				
Number of Taxa w/ Epi.	8				
Number of Taxa w/o Epi.	8				
Total Biomass w/ Epi.			0.47250		
Total Biomass w/o Epi.			0.47250		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer		Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m		Rep: 02 Date: 28SEP2004 Time: 21:28:54	
BOTTOM ENVIRONMENT					
Depth (m): 1.0 Dissolved Oxygen (mg/l): 5.6		Salinity (ppt): 0.21 Sediment Silt-Clay (%): 90.47		Temperature (C): 21.82 Total Carbon (%): 5.37	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.50		Condition: Meets Goal		# Attributes Scored: 3	
	Value	Score		Value	Score
Shannon-Wiener Index	2.49		T.F. Pollution Indicative Spp. Abund. (%)	52.87	3
Abundance (#/m2)	3915	5	Tolerance Score	9.24	3
Deep Deposit Feeder Abundance (%)	91.95	3	Limnodrilus Abundance (%)	52.87	
Carnivore-Omnivore Abundance (%)	5.75				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Almyracuma proximocoli	45		0.00225		
Aulodrilus pigueti	180				
Aulodrilus plurisetus	90				
Chironomidae			0.00225		
Coelotanypus spp.	135		0.00450		
Cryptochironomus spp.	90				
Ilyodrilus templetoni	180				
Limnodrilus hoffmeisteri	270				
Musculium spp.	45		0.00225		
Oligochaeta			0.18900		
Quistadrilus multisetosus	270				
Tubificidae imm w cap chaetae *	810				
Tubificidae imm w/o cap chaetae *	1800				
Total Abundance w/ Epi.	3915				
Total Abundance w/o Epi.	3915				
Number of Taxa w/ Epi.	9				
Number of Taxa w/o Epi.	9				
Total Biomass w/ Epi.			0.20025		
Total Biomass w/o Epi.			0.20025		

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patuxent River Gear: Wildco Box Corer	Station: 079 Habitat: Tidal Freshwater Sampled Area: 0.022 sq. m	Rep: 03 Date: 28SEP2004 Time: 21:28:54
BOTTOM ENVIRONMENT		
Depth (m): 1.0 Dissolved Oxygen (mg/l): 5.6	Salinity (ppt): 0.21 Sediment Silt-Clay (%): 90.47	Temperature (C): 21.82 Total Carbon (%): 5.37
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.50	Condition: Meets Goal	# Attributes Scored: 3
Shannon-Wiener Index	Value Score	Value Score
Abundance (#/m2)	3735	48.19 3
Deep Deposit Feeder Abundance (%)	89.16 3	Tolerance Score 9.20 3
Carnivore-Omnivore Abundance (%)	10.84	Limnodrilus Abundance (%) 48.19
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Aulodrilus limnobi us	90	
Chironomidae		0.00225
Coelotany pus spp.	360	0.07200
Ilyodrilus templetoni	90	
Limnodrilus hoffmeisteri	90	
Oligochaeta		0.31500
Polypedilum halterale group	45	
Quistadrilus multisetosus	90	
Tubificidae imm w cap chaetae	1260	
Tubificidae imm w/o cap chaetae	1710	
Total Abundance w/ Epi.	3735	
Total Abundance w/o Epi.	3735	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		0.38925
Total Biomass w/o Epi.		0.38925

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 02SEP2004 Time: 11:07:24	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 4.49 Sediment Silt-Clay (%): 98.04		Temperature (C): 26.04 Total Carbon (%): 5.05	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.00		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%)	100.00	1
Abundance (#/m2)	0	1	Pollution Indicative Species Biomass (%)	100.00	
Biomass (g/m2)	0.00	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
No Organisms Present				0.00225	
Total Abundance w/ Epi.					
Total Abundance w/o Epi.					
Number of Taxa w/ Epi.		0			
Number of Taxa w/o Epi.		0			
Total Biomass w/ Epi.				0.00225	
Total Biomass w/o Epi.				0.00225	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 02SEP2004 Time: 11:07:24	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 4.49 Sediment Silt-Clay (%): 98.04		Temperature (C): 26.04 Total Carbon (%): 5.05	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.40		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	0.97	1	Pollution Indicative Species Abundance (%)	40.00	1
Abundance (#/m2)	225	1	Pollution Indicative Species Biomass (%)	0.23	
Biomass (g/m2)	0.97	1	Pollution Sensitive Species Abundance (%)	60.00	
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%)	99.77	3
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Littoridinops tenuipes (Epi)		45		0.01350	
Macoma balthica		135		0.97200	
Streblospio benedicti		90		0.00225	
Total Abundance w/ Epi.		270			
Total Abundance w/o Epi.		225			
Number of Taxa w/ Epi.		3			
Number of Taxa w/o Epi.		2			
Total Biomass w/ Epi.				0.98775	
Total Biomass w/o Epi.				0.97425	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 201 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 02SEP2004 Time: 11:07:24	
BOTTOM ENVIRONMENT					
Depth (m): 3.0 Dissolved Oxygen (mg/l): 6.2		Salinity (ppt): 4.49 Sediment Silt-Clay (%): 98.04		Temperature (C): 26.04 Total Carbon (%): 5.05	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.80		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.25	3	Pollution Indicative Species Abundance (%)	33.33	1
Abundance (#/m2)	270	1	Pollution Indicative Species Biomass (%)	1.85	
Biomass (g/m2)	0.12	1	Pollution Sensitive Species Abundance (%)	16.67	
Carnivore-Omnivore Abundance (%)	16.67		Pollution Sensitive Species Biomass (%)	81.48	3
Deep Deposit Feeder Abundance (%)	16.67				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Cari noma tremaphoros		45		0.01350	
Leptocheirus plumulosus		45		0.00450	
Rangia cuneata		45		0.09900	
Streblospio benedicti		90		0.00225	
Tubificoides spp.		45		0.00225	
Total Abundance w/ Epi.		270			
Total Abundance w/o Epi.		270			
Number of Taxa w/ Epi.		5			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				0.12150	
Total Biomass w/o Epi.				0.12150	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 01 Date: 02SEP2004 Time: 9:25:50	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 5.39 Sediment Silt-Clay (%): 96.58		Temperature (C): 25.93 Total Carbon (%): 4.75	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.00		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.58	1	Pollution Indicative Species Abundance (%)	66.67	1
Abundance (#/m2)	135	1	Pollution Indicative Species Biomass (%)	75.00	
Biomass (g/m2)	0.01	1	Pollution Sensitive Species Abundance (%)	0.00	
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%)	0.00	1
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Macoma mitchelli		45		0.00225	
Parapriospio pinnata		45		0.00225	
Streblospio benedicti		45		0.00450	
Total Abundance w/ Epi.		135			
Total Abundance w/o Epi.		135			
Number of Taxa w/ Epi.		3			
Number of Taxa w/o Epi.		3			
Total Biomass w/ Epi.				0.00900	
Total Biomass w/o Epi.				0.00900	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 02 Date: 02SEP2004 Time: 9:25:50	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 5.39 Sediment Silt-Clay (%): 96.58		Temperature (C): 25.93 Total Carbon (%): 4.75	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.20		Condition: Degraded		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%)	0.00	5
Abundance (#/m2)	90	1	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	0.44	1	Pollution Sensitive Species Abundance (%)	100.00	
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%)	100.00	3
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Macoma balthica		90		0.43650	
Total Abundance w/ Epi.		90			
Total Abundance w/o Epi.		90			
Number of Taxa w/ Epi.		1			
Number of Taxa w/o Epi.		1			
Total Biomass w/ Epi.				0.43650	
Total Biomass w/o Epi.				0.43650	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Wildco Box Corer		Station: 202 Habitat: Low Mesohaline Sampled Area: 0.022 sq. m		Rep: 03 Date: 02SEP2004 Time: 9:25:50	
BOTTOM ENVIRONMENT					
Depth (m): 5.0 Dissolved Oxygen (mg/l): 4.8		Salinity (ppt): 5.39 Sediment Silt-Clay (%): 96.58		Temperature (C): 25.93 Total Carbon (%): 4.75	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.80		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.00	3	Pollution Indicative Species Abundance (%)	75.00	1
Abundance (#/m2)	180	1	Pollution Indicative Species Biomass (%)	3.17	
Biomass (g/m2)	0.14	1	Pollution Sensitive Species Abundance (%)	25.00	
Carnivore-Omnivore Abundance (%)	50.00		Pollution Sensitive Species Biomass (%)	95.24	3
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00225	
Chironomus spp.		45			
Eteone heteropoda		45		0.00225	
Macoma balthica		45		0.13500	
Streblospio benedicti		45		0.00225	
Total Abundance w/ Epi.		180			
Total Abundance w/o Epi.		180			
Number of Taxa w/ Epi.		4			
Number of Taxa w/o Epi.		4			
Total Biomass w/ Epi.				0.14175	
Total Biomass w/o Epi.				0.14175	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab	Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m	Rep: 01 Date: 24SEP2004 Time: 2:56:15
BOTTOM ENVIRONMENT		
Depth (m): 2.0 Dissolved Oxygen (mg/l): 11.1	Salinity (ppt): 0.82 Sediment Silt-Clay (%): 97.07	Temperature (C): 21.77 Total Carbon (%): 4.89
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.28	Oligohaline Pollution Indicative Spp. Abund. 100.00 1
Abundance (#/m2)	1431	Tolerance Score 8.77 3
Deep Deposit Feeder Abundance (%)	69.84	Oligohaline Pollution Sensitive Spp. Abund. 0.00 1
Carnivore-Omnivore Abundance (%)	30.16	Tanypodinae/Chironomidae Abundance Ratio 94.74 1
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Chironomidae		0.00114
Chironomus spp.	23	
Coelotanypus spp.	409	0.08861
Enallagma spp. (Epi)	23	0.00682
Limnodrilus hoffmeisteri	91	
Oligochaeta		0.08406
Tubificidae imm w/o cap chaetae *	909	
Total Abundance w/ Epi.	1454	
Total Abundance w/o Epi.	1431	
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	3	
Total Biomass w/ Epi.		0.18062
Total Biomass w/o Epi.		0.17381

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab		Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m		Rep: 02 Date: 24SEP2004 Time: 2:56:15	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 11.1		Salinity (ppt): 0.82 Sediment Silt-Clay (%): 97.07		Temperature (C): 21.77 Total Carbon (%): 4.89	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.81		Oligohaline Pollution Indicative Spp. Abund.	98.33	1
Abundance (#/m2)	1363	5	Tolerance Score	8.34	3
Deep Deposit Feeder Abundance (%)	56.67		Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	41.67	5	Tanypodinae/Chironomidae Abundance Ratio	92.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00114	
Chironomus spp.		45			
Coelotanypus spp.		523		0.08634	
Limnodrilus hoffmeisteri		136			
Oligochaeta				0.11814	
Rangia cuneata		23		2.90816	
Tubificidae imm w cap chaetae		45			
Tubificidae imm w/o cap chaetae *		591			
Total Abundance w/ Epi.		1363			
Total Abundance w/o Epi.		1363			
Number of Taxa w/ Epi.		5			
Number of Taxa w/o Epi.		5			
Total Biomass w/ Epi.				3.11378	
Total Biomass w/o Epi.				3.11378	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Patapsco & Back Rivers Gear: Young Grab		Station: 203 Habitat: Oligohaline Sampled Area: 0.044 sq. m		Rep: 03 Date: 24SEP2004 Time: 2:56:15	
BOTTOM ENVIRONMENT					
Depth (m): 2.0 Dissolved Oxygen (mg/l): 11.1		Salinity (ppt): 0.82 Sediment Silt-Clay (%): 97.07		Temperature (C): 21.77 Total Carbon (%): 4.89	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.67		Condition: Marginal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.49		Oligohaline Pollution Indicative Spp. Abund.	100.00	1
Abundance (#/m2)	1250	5	Tolerance Score	8.29	3
Deep Deposit Feeder Abundance (%)	54.55		Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	45.45	5	Tanypodinae/Chironomidae Abundance Ratio	92.00	1
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Chironomidae				0.00114	
Chironomus spp.		45			
Coelotanypus spp.		523		0.13405	
Limnodrilus hoffmeisteri		91			
Oligochaeta				0.04090	
Tubificidae imm w/o cap chaetae *		591			
Total Abundance w/ Epi.		1250			
Total Abundance w/o Epi.		1250			
Number of Taxa w/ Epi.		3			
Number of Taxa w/o Epi.		3			
Total Biomass w/ Epi.				0.17608	
Total Biomass w/o Epi.				0.17608	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab	Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq. m	Rep: 01 Date: 14SEP2004 Time: 11:50:00
BOTTOM ENVIRONMENT		
Depth (m): 21.9 Dissolved Oxygen (mg/l): 4.2	Salinity (ppt): 0.80 Sediment Silt-Clay (%): 50.75	Temperature (C): 16.17 Total Carbon (%): 1.39
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.56 3	Pollution Indicative Species Abundance (%) 12.41
Abundance (#/m2)	3294 3	Pollution Indicative Species Biomass (%) 1.43 5
Biomass (g/m2)	0.96 3	Pollution Sensitive Species Abundance (%) 1.38
Carnivore-Omnivore Abundance (%)	17.93 3	Pollution Sensitive Species Biomass (%) 3.92 1
Deep Deposit Feeder Abundance (%)	29.66	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Eteone heteropoda	182	0.01136
Heteromastus filiformis	227	0.06362
Leptocheirus plumulosus	1318	0.45894
Macoma balthica	23	0.03635
Macoma mitchelli	227	0.02726
Marenzelleria viridis	23	0.00114
Neanthes succinea	409	0.34534
Oligochaeta		0.00114
Streblospio benedicti	136	0.00227
Tubificidae imm w/o cap chaetae	91	
Tubificoides spp.	659	0.00909
Total Abundance w/ Epi.	3294	
Total Abundance w/o Epi.	3294	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		0.95651
Total Biomass w/o Epi.		0.95651

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab		Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq. m		Rep: 02 Date: 14SEP2004 Time: 11:50:00	
BOTTOM ENVIRONMENT					
Depth (m): 21.9 Dissolved Oxygen (mg/l): 4.2		Salinity (ppt): 0.80 Sediment Silt-Clay (%): 50.75		Temperature (C): 16.17 Total Carbon (%): 1.39	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	2.62	3	Pollution Indicative Species Abundance (%)	8.15	
Abundance (#/m2)	4180	3	Pollution Indicative Species Biomass (%)	0.54	5
Biomass (g/m2)	1.48	3	Pollution Sensitive Species Abundance (%)	4.35	
Carnivore-Omnivore Abundance (%)	11.41	3	Pollution Sensitive Species Biomass (%)	21.73	1
Deep Deposit Feeder Abundance (%)	48.91				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA		Abundance (#/m2)		Biomass (g/m2)	
Edwardsia elegans		45		0.00114	
Eteone heteropoda		68		0.00682	
Heteromastus filiformis		591		0.12950	
Leptocheirus plumulosus		1068		0.26582	
Macoma balthica		159		0.27264	
Macoma mitchelli		182		0.03862	
Marenzelleria viridis		23		0.04998	
Neanthes succinea		364		0.69069	
Oligochaeta				0.00114	
Rhythropanopeus harrisi (Epi)		23		0.71341	
Streblospio benedicti		227		0.00114	
Tubificidae imm w/o cap chaetae		45			
Tubificoides spp.		1409		0.02726	
Total Abundance w/ Epi.		4203			
Total Abundance w/o Epi.		4180			
Number of Taxa w/ Epi.		12			
Number of Taxa w/o Epi.		11			
Total Biomass w/ Epi.				2.19816	
Total Biomass w/o Epi.				1.48475	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) FIXED STATIONS

Watershed: Lower Western Shore Gear: Young Grab	Station: 204 Habitat: High Mesohaline Mud Sampled Area: 0.044 sq. m	Rep: 03 Date: 14SEP2004 Time: 11:50:00
BOTTOM ENVIRONMENT		
Depth (m): 21.9 Dissolved Oxygen (mg/l): 4.2	Salinity (ppt): 0.80 Sediment Silt-Clay (%): 50.75	Temperature (C): 16.17 Total Carbon (%): 1.39
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.11 3	Pollution Indicative Species Abundance (%) 7.69
Abundance (#/m2)	10338 1	Pollution Indicative Species Biomass (%) 2.22 5
Biomass (g/m2)	1.13 3	Pollution Sensitive Species Abundance (%) 2.42
Carnivore-Omnivore Abundance (%)	8.35 1	Pollution Sensitive Species Biomass (%) 25.63 1
Deep Deposit Feeder Abundance (%)	49.23	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Cyathura polita	23	0.03181
Edwardsia elegans	91	0.00227
Eteone heteropoda	204	0.01590
Heteromastus filiformis	227	0.04998
Leptocheirus plumulosus	3317	0.43395
Macoma balthica	204	0.22266
Macoma mitchelli	295	0.02272
Marenzelleria viridis	23	0.03408
Neanthes succinea	545	0.24765
Oligochaeta		0.00114
Streblospio benedicti	545	0.00909
Tubificidae imm w/o cap chaetae	45	
Tubificoides spp.	4817	0.05453
Total Abundance w/ Epi.	10338	
Total Abundance w/o Epi.	10338	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		1.12578
Total Biomass w/o Epi.		1.12578

DATA SUMMARY C

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT THE MARYLAND BAY
RANDOM SITES: SUMMER 2004**

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11403	11404	11405	11406	11407
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	High Meso Sand	Low Mesohaline	High Meso Sand	Low Mesohaline	Low Mesohaline
Date	09/22/04	09/29/04	09/29/04	09/29/04	09/29/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	1.5	0.5	0.5	5.8	1.0
Salinity (ppt)	14.96	8.85	12.75	10.58	11.46
Temperature (C)	21.37	21.52	21.44	21.67	20.88
Dissolved Oxygen (mg/L)	9.1	8.1	7.7	7.3	6.3
Sediment Silt-Clay (%)	22.73	88.16	30.14	90.96	6.88
Total Carbon (%)	0.11	2.50	0.96	2.92	0.72
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	4.00	2.20	2.67	1.80	3.00
Condition	Meets Goal	Degraded	Marginal	Severely Degr.	Meets Goal
# Attributes Scored	6	5	6	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.58 3	1.49 1	2.80 3	1.65 1	2.88 5
Abundance (#/m2)	1545 5	5703 3	1999 5	1272 3	863 3
Biomass (g/m2)	2.09 3	0.41 1	0.99 1	0.75 1	0.46 1
Pollution Indicative Spp Abund (%)	13.24 3	8.76 5	29.55 1	16.07 3	13.16 3
Pollution Indicative Spp Biom (%)	0.60 3	3.89 5	1.61 1	0.30 1	1.73 3
Pollution Sensitive Spp Abund (%)	64.71 5	2.79 1	26.14 3	10.71 1	28.95 3
Pollution Sensitive Spp Biom (%)	6.15 3	7.22 1	72.15 3	38.86 1	52.48 3
Carnivore-Omnivore Abundance (%)	67.65 5	7.17 1	29.55 3	10.71 1	31.58 3
Deep Deposit Feeder Abundance (%)	5.88 3	80.08 5	18.18 1	66.07 3	28.95 3

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11403	11404	11405	11406	11407
Acteocina canaliculata	841		45		
Amphiporus bioculatus	23				
Apocorophium lacustre (Epi.)	23				
Carinoma tremaphoros		182	45		23
Cyathura polita		159		68	23
Edwardsia elegans			23		
Eteone heteropoda		23			
Gemma gemma					23
Glycera dibranchiata	45				
Glycinde solitaria	91		341	45	204
Haminoea solitaria	45				
Heteromastus filiformis	23	68	23		45
Leptocheirus plumulosus		91			
Leucon americanus		23			
Macoma balthica			68		
Macoma mitchelli	114	295	386	68	182
Marenzelleria viridis	23			23	23
Mediomastus ambiseta			68		
Mulinia lateralis	68				45
Neanthes succinea		45	136	23	23
Odostomia engonia (Epi.)					68
Pectinaria gouldii	23				
Phoronis spp.	23				
Spirochaetopterus costarum	23				
Streblospio benedicti	136	318	591	204	68
Stylochus ellipticus (Epi.)				23	
Terebellidae	23				
Tubificidae imm w/o cap chaetae		159			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11403	11404	11405	11406	11407
Tubificoides spp.	45	4340	273	841	204
Total Abundance w/ Epi fauna	1568	5703	1999	1295	932
Total Abundance w/o Epi fauna	1545	5703	1999	1272	863
Number of Taxa w/ Epi fauna	16	11	11	8	12
Number of Taxa w/o Epi fauna	15	11	11	7	11
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11403	11404	11405	11406	11407
Acteocina canaliculata	0.0591		0.0023		
Amphiporus bioculatus	0.0023				
Apocorophium lacustre (Epi.)	0.0011				
Carinoma tremaphoros		0.0341	0.0136		0.0159
Cyathura polita		0.0295		0.1931	0.1386
Edwardsia elegans			0.0011		
Eteone heteropoda		0.0023			
Gemma gemma					0.0011
Glycera dibranchiata	1.9312				
Glycinde solitaria	0.0068		0.0795	0.0295	0.0364
Haminoea solitaria	0.0023				
Heteromastus filiformis	0.0011	0.0523	0.0011		0.0523
Leptocheirus plumulosus		0.0068			
Leucon americanus		0.0011			
Macoma balthica			0.6293		
Macoma mitchelli	0.0011	0.2363	0.1000	0.4271	0.1272
Marenzelleria viridis	0.0523			0.0704	0.0659

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11403	11404	11405	11406	11407
Mediomastus ambiseta			0.0011		
Mulinia lateralis	0.0011				0.0068
Neanthes succinea		0.0023	0.1386	0.0273	0.0114
Odostomia engonia (Epi.)					0.0136
Oligochaeta		0.0011			
Pectinaria gouldii	0.0023				
Phoronis spp.	0.0091				
Spirochaetopterus costarum	0.0011				
Streblospio benedicti	0.0114	0.0136	0.0159	0.0023	0.0011
Stylochus ellipticus (Epi.)				0.0068	
Terebellidae	0.0011				
Tubificoides spp.	0.0045	0.0295	0.0045	0.0045	0.0023
Total Biomass w/ Epi fauna	2.0880	0.4090	0.9872	0.7611	0.4726
Total Biomass w/o Epi fauna	2.0868	0.4090	0.9872	0.7543	0.4589

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11408	11409	11411	11412	11413
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/28/04	09/30/04	09/30/04	09/30/04	09/30/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	1.5	3.0	2.3	5.1	1.9
Salinity (ppt)	8.25	10.53	8.98	10.49	8.89
Temperature (C)	21.67	20.99	21.45	21.44	21.48
Dissolved Oxygen (mg/L)	6.4	7.0	6.6	7.0	6.5
Sediment Silt-Clay (%)	80.10	61.32	82.52	30.60	6.68
Total Carbon (%)	3.05	0.79	2.65	0.65	0.10
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.40	2.60	3.00	3.00	3.00
Condition	Meets Goal	Degraded	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.40 3	2.20 3	1.71 3	2.95 5	2.95 5
Abundance (#/m2)	3522 3	11973 1	6589 1	2931 3	1386 3
Biomass (g/m2)	1.22 3	2.73 3	2.80 3	2.01 3	0.89 1
Pollution Indicative Spp Abund (%)	16.13 3	14.80 3	6.55 5	26.36 1	18.03 3
Pollution Indicative Spp Biom (%)	0.56	1.41	0.08	2.37	2.80
Pollution Sensitive Spp Abund (%)	17.42	1.90	5.52	12.40	39.34
Pollution Sensitive Spp Biom (%)	82.17 5	55.97 3	74.30 3	45.91 3	77.26 3
Carnivore-Omnivore Abundance (%)	19.35	3.80	3.45	9.30	29.51
Deep Deposit Feeder Abundance (%)	59.35	52.75	68.62	37.21	16.39

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11408	11409	11411	11412	11413
Amphiporus bioculatus	23				
Apocorophium lacustre (Epi.)				23	
Carinoma tremaphoros	91	68	23	68	
Coelotanypus spp.			45		
Cyathura polita	545	159	159	136	23
Cyclaspis varians	23				
Edotea triloba (Epi.)				23	23
Edwardsia elegans	23			23	
Eteone heteropoda					68
Gastropoda (Epi.)	23				
Heteromastus filiformis	68	1522	91	704	68
Leptocheirus plumulosus	23	3249	1363		23
Leucon americanus	23				
Macoma balthica	45	45	182	136	45
Macoma mitchelli	318	136	68	727	23
Marenzelleria viridis		23	23	91	386
Melita nitida (Epi.)			182		
Mulinia lateralis				91	23
Neanthes succinea		227		45	318
Rangia cuneata	23				91
Sayella chesapeakea (Epi.)				23	
Streblospio benedicti	295	1749	204	523	159
Tubificidae imm w/o cap chaetae	273	23	182	159	
Tubificoides spp.	1749	4771	4249	227	159

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01:2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11408	11409	11411	11412	11413
Turbellaria (Epi.)			23		
Total Abundance w/ Epi fauna	3544	11973	6793	2999	1409
Total Abundance w/o Epi fauna	3522	11973	6589	2931	1386
Number of Taxa w/ Epi fauna	15	11	13	15	13
Number of Taxa w/o Epi fauna	14	11	11	12	12
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11408	11409	11411	11412	11413
Amphiporus bioculatus	0.0204				
Apocorophium lacustre (Epi.)				0.0045	
Carinoma tremaphoros	0.0023	0.0613	0.0159	0.0250	
Coelotanypus spp.			0.0011		
Cyathura polita	0.7498	0.4771	0.2386	0.2567	0.0091
Cyclaspis varians	0.0011				
Edotea triloba (Epi.)				0.0011	0.0023
Edwardsia elegans	0.0011			0.0023	
Eteone heteropoda					0.0023
Gastropoda (Epi.)	0.0011				
Heteromastus filiformis	0.0114	0.2840	0.0114	0.2545	0.0704
Leptocheirus plumulosus	0.0011	0.3567	0.2840		0.0045
Leucon americanus	0.0011				
Macoma balthica	0.2431	1.0247	1.6199	0.4589	0.0886
Macoma mitchelli	0.1522	0.0273	0.3567	0.7248	0.0545
Marenzelleria viridis		0.0273	0.2204	0.2090	0.4135
Melita nitida (Epi.)			0.0068		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11408	11409	11411	11412	11413
Mulinia lateralis				0.0045	0.0159
Neanthes succinea		0.3794		0.0250	0.0477
Oligochaeta	0.0011	0.0011	0.0011	0.0034	
Rangia cuneata	0.0068				0.1795
Sayella chesapeakea (Epi.)				0.0068	
Streblospio benedicti	0.0068	0.0386	0.0011	0.0432	0.0068
Tubificoides spp.	0.0182	0.0545	0.0477	0.0068	0.0011
Turbellaria (Epi.)			0.0011		
Total Biomass w/ Epi fauna	1.2178	2.7321	2.8059	2.0266	0.8963
Total Biomass w/o Epi fauna	1.2167	2.7321	2.7980	2.0141	0.8940

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11414	11415	11426	11427	11428
Watershed	Eastern Tri bs	Eastern Tri bs	Eastern Tri bs	Eastern Tri bs	Eastern Tri bs
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	High Meso Sand	High Meso Sand
Date	09/30/04	09/30/04	09/29/04	09/22/04	09/22/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	8.2	2.0	11.2	1.5	1.2
Salinity (ppt)	10.60	6.14	9.23	15.45	15.81
Temperature (C)	21.55	21.45	21.46	21.40	21.13
Dissolved Oxygen (mg/L)	6.9	6.2	7.2	9.7	9.7
Sediment Silt-Clay (%)	95.42	94.12	26.44	3.68	2.38
Total Carbon (%)	1.99	5.15	0.58	0.06	0.09
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	3.00	2.20	3.33	3.33
Condition	Meets Goal	Meets Goal	Degraded	Meets Goal	Meets Goal
# Attributes Scored	5	5	5	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.10 3	1.72 3	2.81 5	1.42 1	2.48 1
Abundance (#/m2)	2749 3	1931 5	7270 1	4862 3	954 1
Biomass (g/m2)	1.08 3	0.18 1	2.43 3	0.36 1	3.39 5
Pollution Indicative Spp Abund (%)	9.92 5	11.76 3	23.44 1	1.40 5	4.76 5
Pollution Indicative Spp Biom (%)	32.53	4.94	6.27	1.26	72.20
Pollution Sensitive Spp Abund (%)	2.48	7.06	1.88	95.33 5	59.52 3
Pollution Sensitive Spp Biom (%)	16.89 1	48.15 3	25.56 1	77.60	2.82
Carnivore-Omnivore Abundance (%)	29.75	2.35	10.63	78.04 5	52.38 5
Deep Deposit Feeder Abundance (%)	57.02	60.00	51.56	16.82	21.43

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11414	11415	11426	11427	11428
Acteocina canaliculata				3544	454
Ameroculodes species complex					23
Carinoma tremaphoros	273		45		
Cyathura polita	23	45			
Cyclaspis varians			45		
Edotea triloba (Epi.)			250	23	
Eteone heteropoda			68		
Gemma gemma			136		
Glycera dibranchiata					23
Glycide solitaria	23		91	204	
Heteromastus filiformis	68		2295	45	136
Leitoscoloplos spp.			23		
Leptocheirus plumulosus		364			
Macoma balthica			23		
Macoma mitchelli	91	45	1000	45	23
Marenzelleria viridis		91	23	45	
Mediomastus ambiseta	23			750	
Melitanitida (Epi.)		227			
Micrura leidyi			45		23
Mulinia lateralis	23		341		45
Neanthes succinea	500		523	45	
Paraonis fulgens					45
Pectinaria gouldii				23	
Phoronis spp.				91	114
Sayella chesapeakea (Epi.)			364		
Streblospio benedicti	250	227	1181	68	
Tubificidae imm w/o cap chaetae			91		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11414	11415	11426	11427	11428
Tubificoides spp.	1477	1159	1340		68
Total Abundance w/ Epi fauna	2749	2158	7884	4885	954
Total Abundance w/o Epi fauna	2749	1931	7270	4862	954
Number of Taxa w/ Epi fauna	10	7	18	11	10
Number of Taxa w/o Epi fauna	10	6	16	10	10
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11414	11415	11426	11427	11428
Acteocina canaliculata				0.1636	0.0432
Ameroculodes speciosus complex					0.0045
Carinoma tremaphoros	0.1159		0.0182		
Cyathura polita	0.1749	0.0091			
Cyclaspis varians			0.0011		
Edotea triloba (Epi.)			0.0136	0.0045	
Eteone heteropoda			0.0068		
Gemma gemma			0.0023		
Glycera dibranchiata					0.3794
Glycinde solitaria	0.0011		0.0068	0.0136	
Heteromastus filiformis	0.0159		0.9497	0.0364	0.0432
Leitoscoloplos spp.			0.0045		
Leptocheirus plumosus		0.0409			
Macoma balthica			0.5998		
Macoma mitchelli	0.0227	0.0341	0.0591	0.0011	0.0011
Marenzelleria viridis		0.0795	0.0136	0.0636	
Mediomastus ambiseta	0.0068			0.0159	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11414	11415	11426	11427	11428
Melita nitida (Epi.)		0.0045			
Micrura leidyi			0.1749		0.4158
Mulinia lateralis	0.3431		0.0682		2.4454
Neanthes succinea	0.3681		0.4317	0.0364	
Oligochaeta			0.0011		
Paraonis fulgens					0.0011
Pectinaria gouldii				0.0023	
Phoronis spp.				0.0227	0.0523
Sayella chesapeakea (Epi.)			0.0295		
Streblospio benedicti	0.0091	0.0091	0.0727	0.0045	
Tubificoides spp.	0.0250	0.0114	0.0159		0.0011
Total Biomass w/ Epi fauna	1.0826	0.1886	2.4697	0.3647	3.3871
Total Biomass w/o Epi fauna	1.0826	0.1840	2.4265	0.3601	3.3871

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11401	11416	11419	11420	11421
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/23/04	09/29/04	09/30/04	09/30/04	09/17/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.0	3.0	1.5	2.0	1.3
Salinity (ppt)	2.95	0.62	0.84	0.64	0.52
Temperature (C)	20.74	21.68	20.86	20.80	23.13
Dissolved Oxygen (mg/L)	5.1	8.4	4.4	4.9	7.7
Sediment Silt-Clay (%)	79.86	91.94	95.40	94.26	4.64
Total Carbon (%)	8.64	5.63	3.95	4.34	0.08
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.00	3.00	3.33	2.00	4.00
Condition	Severely Degr.	Meets Goal	Meets Goal	Severely Degr.	Meets Goal
# Attributes Scored	6	6	6	6	6
	Value	Score	Value	Score	Value
Shannon-Wiener Index	0.00	.	2.48	.	2.73
Abundance (#/m2)	23	1	1727	5	1113
Deep Deposit Feeder Abundance (%)	0.00	.	47.37	.	12.24
Oligo. Poll. Ind. Spp. Abund. (%)	100.00	1	82.89	3	67.35
Tolerance Score	6.20	3	8.25	3	6.60
Oligo. Poll. Sens. Spp. Abund. (%)	0.00	1	0.00	1	2.04
Tany./Chir. Abund. Ratio	100.00	1	95.45	1	78.95
Carnivore-Omnivore Abundance (%)	100.00	5	39.47	5	38.78
Deep Deposit Feeder Abundance (%)	0.00	.	47.37	.	12.24

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-16

BENTHIC ABUNDANCE (per sq. meter)					
Site	11401	11416	11419	11420	11421
Almyracuma proximoculi	68
Amnicolalimosa (Epi.)	.	23	.	.	.
Apocorophium lacustre (Epi.)	.	.	.	318	.
Aulodrilus pigueti	.	.	23	.	.
Bezzia spp.	.	45	.	23	.
Chaoborus punctipennis	.	136	.	.	.
Chiridotea almyra	.	.	.	23	.
Chironomidae pupae *	45
Chironomus spp.	.	.	.	23	.
Cladotanytarsus spp. A Epler	.	.	.	23	.
Coelotanypus spp.	23	477	341	1000	.
Corbiculafluminea	.	.	182	523	250
Cryptochironomus spp.	.	23	45	.	.
Cyathura polita	23
Edotea triloba (Epi.)	23	.	.	.	.
Gammarus dalberi (Epi.)	.	409	.	1340	.
Gammarus spp. (Epi.)	.	.	23	.	.
Leptocheirus plumulosus	.	136	45	1749	.
Limnodrilus hoffmeisteri	.	273	.	182	.
Littoridinops tenuipes (Epi.)	.	23	.	1363	.
Marenzelleriaviridis	.	.	23	.	91
Polydora cornuta	.	.	23	.	.
Polypedilum halterale group	.	.	23	.	2136
Rangia cuneata	.	91	273	91	.
Rheotanytarsus spp.	45
Tanytarsus spp. G Epler	.	.	23	23	.
Tubificidae imm w cap chaetae	91
Tubificidae imm w/o cap chaetae	.	.	114	454	159
Tubificidae imm w/o cap chaetae *	.	545	.	.	.
Tubificoides spp.	.	.	.	182	.
Total Abundance w/ Epi fauna	45	2181	1136	7316	2908
Total Abundance w/o Epi fauna	23	1727	1113	4294	2908
Number of Taxa w/ Epi fauna	2	10	12	15	8
Number of Taxa w/o Epi fauna	1	7	11	12	8

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	11401	11416	11419	11420	11421
<i>Almyracuma proximoculi</i>	0.0011
<i>Amnicolalimosa</i> (Epi.)	.	0.0011	.	.	.
<i>Apocorophium lacustre</i> (Epi.)	.	.	.	0.0341	.
<i>Bezzia</i> spp.	.	0.0136	.	0.0011	.
<i>Chaoborus punctipennis</i>	.	0.0136	.	.	.
<i>Chironomidae</i>	.	.	.	0.0068	.
<i>Chironomidae</i> pupae *	.	0.0011	0.0011	0.0011	0.0454
<i>Coelotanypus</i> spp.	0.0045	0.0613	0.0477	0.1068	0.0045
<i>Corbicula fluminea</i>	.	.	2.1811	2.0221	0.0159
<i>Cyathura polita</i>	0.0204
<i>Edotea triloba</i> (Epi.)	0.0045	.	.	.	.
<i>Gammarus dalberi</i> (Epi.)	.	0.0182	.	0.0523	.
<i>Gammarus</i> spp. (Epi.)	.	.	0.0011	.	.
<i>Leptocheirus plumulosus</i>	.	0.0477	0.0023	0.2908	.
<i>Littoridinops tenuipes</i> (Epi.)	.	0.0011	.	0.0250	.
<i>Marenzelleria viridis</i>	.	.	0.0454	.	0.1795
<i>Oligochaeta</i>	.	0.1840	0.0011	0.0636	0.0011
<i>Polydora cornuta</i>	.	.	0.0011	.	.
<i>Rangia cuneata</i>	.	53.2239	93.0566	79.3223	.
<i>Tubificoides</i> spp.	.	.	.	0.0023	.
Total Biomass	0.0091	53.5658	95.3377	81.9283	0.2681
Total Biomass w/o Epi fauna	0.0045	53.5454	95.3365	81.8170	0.2681

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11424	11425
Watershed	Eastern Tribs	Eastern Tribs
Habitat	Oligohaline	Oligohaline
Date	09/17/04	09/17/04
Gear	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	13.0	1.0
Salinity (ppt)	0.71	0.52
Temperature (C)	23.37	23.26
Dissolved Oxygen (mg/L)	7.1	8.6
Sediment Silt-Clay (%)	15.20	86.92
Total Carbon (%)	0.07	2.54
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	4.00	2.00
Condition	Meets Goal	Severely Degr.
# Attributes Scored	6	6
	Value Score	Value Score
Shannon-Wiener Index	1.95 .	2.54 .
Abundance (#/m2)	523 5	6339 1
Deep Deposit Feeder Abundance (%)	8.70 .	82.08 .
Oligo. Poll. Ind. Spp. Abund. (%)	43.48 3	91.76 3
Tolerance Score	9.80 1	9.14 1
Oligo. Poll. Sens. Spp. Abund. (%)	52.17 5	0.00 1
Tany./Chir. Abund. Ratio	0.00 5	42.22 3
Carnivore-Omnivore Abundance (%)	52.17 5	16.49 3
Deep Deposit Feeder Abundance (%)	8.70 .	82.08 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-19

BENTHIC ABUNDANCE (per sq. meter)			
Site	11424	11425	
Acteocina canaliculata	23	.	.
Apocorophium lacustre (Epi.)	.	23	.
Arctonais lomondi	.	91	.
Aulodrilus pigueti	.	182	.
Chironomus almyra	68	.	.
Chironomus spp.	.	318	.
Cladotanytarsus spp. F Epler	.	45	.
Coelotanypus spp.	.	386	.
Corbicula fluminea	.	45	.
Cryptochironomus spp.	.	45	.
Cyathura polita	.	23	.
Dero spp.	.	182	.
Ilyodrilus templetoni	.	45	.
Limnodrilus hoffmeisteri	.	136	.
Limnodrilus udekemianus	.	45	.
Littoridinops tenuipes (Epi.)	.	23	.
Marenzelleria viridis	204	.	.
Musculium spp.	.	45	.
Polypedilum halterale group	182	45	.
Quistadrilus multisetosus	.	45	.
Stempellina spp.	.	45	.
Tanytus neopunctipennis	.	45	.
Tanytarsus spp. G Epler	.	91	.
Tubificidae imm w cap chaetae	.	318	.
Tubificidae imm w/o cap chaetae	45	.	.
Tubificidae imm w/o cap chaetae *	.	3681	.
Tubificoides spp.	.	477	.
Total Abundance w/ Epi fauna	523	6384	.
Total Abundance w/o Epi fauna	523	6339	.
Number of Taxa w/ Epi fauna	5	22	.
Number of Taxa w/o Epi fauna	5	20	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)				
Site	11424	11425		
Acteocina canaliculata	0.0011	.	.	.
Apocorophium lacustre (Epi.)	.	0.0023	.	.
Chironomidae	0.0023	.	.	.
Chironomidae	0.0011	0.0091	.	.
Coelotanytus spp.	.	0.0750	.	.
Corbicula fluminea	.	0.0273	.	.
Cyathura polita	.	0.0682	.	.
Littoridinops tenuipes (Epi.)	.	0.0011	.	.
Marenzelleria viridis	0.2772	.	.	.
Musculium spp.	.	0.0045	.	.
Oligochaeta	0.0011	0.0909	.	.
Tubificoides spp.	.	0.0068	.	.
Total Biomass	0.2829	0.2851	.	.
Total Biomass w/o Epi fauna	0.2829	0.2817	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11402	11422	11423
Watershed	Eastern Tri bs	Eastern Tri bs	Eastern Tri bs
Habitat	Freshwater	Freshwater	Freshwater
Date	09/23/04	09/17/04	09/17/04
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	7.3	3.6	1.5
Salinity (ppt)	0.05	0.28	0.47
Temperature (C)	21.21	23.24	23.36
Dissolved Oxygen (mg/L)	4.5	6.8	8.3
Sediment Silt-Clay (%)	0.79	95.40	17.66
Total Carbon (%)	0.06	3.08	0.67
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	2.50	2.50	4.00
Condition	Degraded	Degraded	Meets Goal
# Attributes Scored	4	4	4
	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.62 .	2.60 .	2.41 .
Abundance (#/m2)	659 1	545 1	2590 5
Deep Deposit Feeder Abundance (%)	55.17 1	58.33 1	68.42 5
T.F. Poll. Ind. Spp. Abund. (%)	0.00 5	37.50 5	47.37 3
Tolerance Score	9.19 3	8.79 3	8.57 3
Limnodrilus Abundance (%)	0.00 .	37.50 .	47.37 .
Carnivore-Omnivore Abundance (%)	44.83 .	41.67 .	4.39 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-22

BENTHIC ABUNDANCE (per sq. meter)			
Site	11402	11422	11423
Apocorophium lacustre (Epi.)	23	.	.
Aulodrilus pigueti	.	.	91
Bezzia spp.	23	.	.
Chaoborus punctipennis	.	91	.
Chironomidae almyra	227	.	.
Coelotanypus spp.	.	91	23
Cyathura polita	.	.	68
Limnodrilus hoffmeisteri	.	45	45
Marenzelleria viridis	.	.	273
Polypedilum halterale group	45	45	23
Pristinella jenkinsae	.	.	136
Rangia cuneata	.	.	432
Tubificidae imm w cap chaetae	341	91	.
Tubificidae imm w/o cap chaetae *	.	159	1181
Tubificoides spp.	23	23	318
Total Abundance w/ Epi fauna	682	545	2590
Total Abundance w/o Epi fauna	659	545	2590
Number of Taxa w/ Epi fauna	6	6	9
Number of Taxa w/o Epi fauna	5	6	9
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11402	11422	11423
Apocorophium lacustre (Epi.)	0.0011	.	.
Bezzia spp.	0.0011	.	.
Chaoborus punctipennis	.	0.0011	.
Chironomidae almyra	0.0364	.	.
Chironomidae	0.0011	0.0011	0.0011
Coelotanypus spp.	.	0.0454	0.0023
Cyathura polita	.	.	0.1091
Marenzelleria viridis	.	.	0.4090
Oligochaeta	0.0148	0.0023	0.0204

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.						
Site	11402	11422	11423			
Rangia cuneata	.	.	173.8125	.	.	.
Tubificoides spp.	0.0023	0.0045	0.0023	.	.	.
Total Biomass	0.0568	0.0545	174.3567	.	.	.
Total Biomass w/o Epi fauna	0.0557	0.0545	174.3567	.	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11501	11502	11503	11504	11505
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Sand	High Meso Sand	High Meso Mud	High Meso Mud	High Meso Sand
Date	08/31/04	08/31/04	08/31/04	08/31/04	08/31/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	7.1	4.3	11.0	7.1	3.6
Salinity (ppt)	14.38	15.16	14.62	14.25	14.50
Temperature (C)	25.63	26.30	25.83	25.88	25.94
Dissolved Oxygen (mg/L)	6.8	7.1	6.4	6.9	7.2
Sediment Silt-Clay (%)	2.22	1.17	82.48	57.59	1.56
Total Carbon (%)	0.06	0.09	1.63	0.62	0.06
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	3.33	4.00	3.00	3.33
Condition	Meets Goal	Meets Goal	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.89 3	2.45 1	3.34 5	2.75 3	2.28 1
Abundance (#/m2)	909 1	1295 3	2454 5	4930 3	1136 3
Biomass (g/m2)	0.29 1	0.16 1	1.05 3	0.98 3	0.26 1
Pollution Indicative Spp Abund (%)	0.00 5	0.00 5	11.11	9.22	0.00 5
Pollution Indicative Spp Biom (%)	0.00	0.00	5.29 3	50.99 1	0.00
Pollution Sensitive Spp Abund (%)	47.50 3	50.88 5	54.63	78.80	72.00 5
Pollution Sensitive Spp Biom (%)	16.60	48.61	64.15 5	44.83 3	33.19
Carnivore-Omnivore Abundance (%)	75.00 5	49.12 5	23.15 3	35.02 5	84.00 5
Deep Deposit Feeder Abundance (%)	22.50	12.28	43.52	44.24	6.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11501	11502	11503	11504	11505
Acteocina canaliculata	250	568	159	1250	477
Ampelisca abdiata				159	
Ampelisca spp.			68		
Amphiporus bioculatus	68		45	45	
Apocorophium lacustre (Epi.)			23		
Eteone heteropoda			23		
Gemma gemma		136			
Glycynde solitaria	182	45	91	364	250
Haminoea solitaria		23			
Heteromastus filiformis	114				68
Leitoscoloplos robustus				45	
Lepidactylus dytiscus		136		45	
Leucon americanus			68	45	
Listriella barnardi			23		
Loimia medusa			341	227	
Macoma mitchelli		182		45	23
Marenzelleria viridis					68
Mediomastus ambiseta			682	1954	
Micrura leidy	45				
Mulinia lateralis				23	
Neanthes succinea	91		182		204
Parahesione luteola			45		
Paraprionospio pinnata			182	341	
Parvilucina crenella	23				
Pectinaria gouldii	45		23	159	
Phoronis spp.		23		23	23
Podarkeopsis levi fuscina			23		
Pseudeurythoe paucibranchiata	23				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11501	11502	11503	11504	11505
Pyramellidae (Epi.)					45
Rictaxis punctostriatus	23			68	23
Spirochaetopterus costarum			68	68	
Spirophanes bombyx		23			
Streptospiro benedicti			68	45	
Tubificoides spp.	45	159	364	23	
Total Abundance w/ Epi fauna	909	1295	2476	4930	1181
Total Abundance w/o Epi fauna	909	1295	2454	4930	1136
Number of Taxa w/ Epi fauna	11	9	18	18	9
Number of Taxa w/o Epi fauna	11	9	17	18	8
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11501	11502	11503	11504	11505
Acteocina canalicularata	0.0318	0.0386	0.0091	0.1000	0.0250
Ampelisca abdita				0.0114	
Ampelisca spp.			0.0011		
Amphiporus biculatus			0.0023	0.0068	
Apocorophium lacustre (Epi.)	0.0136		0.0011		
Eteone heteropoda			0.0011		
Gemma gemma		0.0023			
Glycinde solitaria	0.0159	0.0045	0.0136	0.1500	0.0273
Haminoea solitaria		0.0114			
Heteromastus filiformis	0.0023				0.0182
Leitoscoloplos robustus				0.0273	
Lepidodactylus dytiscus		0.0364		0.0114	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11501	11502	11503	11504	11505
Leucon americanus			0.0011	0.0011	
Listriella barnardi			0.0011		
Loimia medusa			0.6225		
Macoma mitchelli		0.0318		0.1522	0.0023
Marenzelleria viridis				0.0011	0.0159
Mediomastus ambiseta			0.0227	0.0341	
Micrura leidy	0.0136				
Mulinia lateralis				0.3385	
Neanthes succinea	0.0568		0.2999		0.1522
Parahesione luteola			0.0011		
Parapriospio pinnata			0.0477	0.1318	
Parvilucina crenella	0.0432				
Pectinaria gouldii	0.0977		0.0068	0.0068	
Phoronis spp.		0.0091		0.0011	0.0182
Podarkeopsis levi fuscina			0.0011		
Pseudeurythoe paucibranchiata	0.0091				
Pyramellidae (Epi.)					0.0068
Rictaxis punctostriatus	0.0011			0.0011	0.0011
Spirochaetopterus costarum			0.0068	0.0011	
Spirophanes bombyx		0.0273			
Streblospio benedicti			0.0068	0.0011	
Tubificoides spp.	0.0023	0.0023	0.0068	0.0011	
Total Biomass w/ Epi fauna	0.2874	0.1636	1.0531	0.9781	0.2670
Total Biomass w/o Epi fauna	0.2874	0.1636	1.0519	0.9781	0.2601

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01:2004/2005) BAY-WIDE RANDOM SITES

Site	11506		11507		11508		11509		11510	
Watershed	Mainstem		Mainstem		Mainstem		Mainstem		Mainstem	
Habitat	High Meso Sand		High Meso Sand		High Meso Sand		High Meso Sand		High Meso Mud	
Date	08/31/04		08/31/04		08/31/04		08/31/04		08/31/04	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	3.6		7.4		8.0		4.1		12.9	
Salinity (ppt)	13.91		13.69		13.74		12.98		13.54	
Temperature (C)	26.39		25.85		25.48		26.14		25.81	
Dissolved Oxygen (mg/L)	7.0		7.2		6.4		7.6		6.5	
Sediment Silt-Clay (%)	1.39		2.56		1.39		10.71		94.91	
Total Carbon (%)	0.09		0.09		0.09		0.24		2.48	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	3.67		4.00		2.67		3.67		2.67	
Condition	Meets Goal		Meets Goal		Marginal		Meets Goal		Marginal	
# Attributes Scored	6		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	2.95	3	2.51	3	2.76	3	2.19	1	2.45	3
Abundance (#/m2)	2204	5	1477	3	477	1	2681	5	932	1
Biomass (g/m2)	0.60	1	1.82	3	0.19	1	0.70	1	0.29	1
Pollution Indicative Spp Abund (%)	0.00	5	3.08	5	14.29	3	2.54	5	14.63	3
Pollution Indicative Spp Biom (%)	0.00		16.15		8.59		8.77		16.28	3
Pollution Sensitive Spp Abund (%)	29.90	3	46.15	5	38.10	3	81.36	5	26.83	
Pollution Sensitive Spp Biom (%)	11.72		5.61		9.20		25.97		39.53	3
Carnivore-Omnivore Abundance (%)	46.39	5	60.00	5	38.10	5	76.27	5	29.27	5
Deep Deposit Feeder Abundance (%)	8.25		33.85		9.52		7.63		41.46	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11506	11507	11508	11509	11510
Acteocina canaliculata	591	591	136	1613	227
Ameroculodes species complex	23				
Ampelisca abdita				204	
Apocorophium lacustre (Epi.)	23				
Edwardsia elegans	23				23
Gemma gemma	523			23	
Glycera dibranchiata				45	
Glycera spp.			23		
Glycinde solitaria	45	91		341	
Haminoea solitaria	318				
Heteromastus filiformis	23	45		45	
Leitoscoloplos spp.				23	
Lepidactylus dytiscus	204				
Leucon americanus					68
Macoma balthica					23
Macoma mitchelli	204	23	91		23
Marenzelleria viridis	23				
Mediomastus ambi seta				91	
Micrura leidy	23				
Molgula manhattensis (Epi.)	23				
Mulinia lateralis		23			
Nassarius vibex		23			
Neanthes succinea	23	136	23	23	23
Nemertea		23			
Parahesione luteola				23	
Paraonis fulgens	23				23
Paraprionospio pinnata		23	68	23	114
Parvilucina crenella		23	45	23	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11506	11507	11508	11509	11510
Pectinaria gouldii	23	432	45	45	
Phoronis spp.			45		
Rictaxis punctostriatus		23			
Sayella chesapeakea (Epi.)	23				
Spirochaetopterus costarum				136	
Streblospio benedicti				23	23
Tubificoides spp.	136	23			386
Total Abundance w/ Epi fauna	2272	1477	477	2681	932
Total Abundance w/o Epi fauna	2204	1477	477	2681	932
Number of Taxa w/ Epi fauna	18	13	8	15	10
Number of Taxa w/o Epi fauna	15	13	8	15	10
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11506	11507	11508	11509	11510
Acteocina canaliculata	0.0409	0.0954	0.0159	0.0977	0.0227
Ameroculodes speciosus complex	0.0045				
Ampelisca abdita				0.0068	
Apocorophium lacustre (Epi.)	0.0011				
Edwardsia elegans	0.0011				0.0011
Gemma gemma	0.0091			0.0023	
Glycera dibranchiata				0.3908	
Glycera spp.			0.0091		
Glycinde solitaria	0.0045	0.0068		0.0409	
Haminoea solitaria	0.3794				
Heteromastus filiformis	0.0023	0.0068		0.0114	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

C-31

BENTHIC BIOMASS (Grams per sq. meter) - Contd.						
Site	11506	11507	11508	11509	11510	
Leitoscoloplos spp.				0.0114		
Lepidactylus dytiscus	0.0636					
Leucon americanus						0.0045
Macoma balthica						0.0932
Macoma mitchelli	0.0045	0.0011	0.0545			0.0091
Marenzelleria viridis	0.0250					
Mediomastus ambiseta				0.0023		
Micrura leidyi	0.0432					
Molgula manhattensis (Epi.)	0.0011					
Mulinia lateralis		0.2931				
Nassarius vibex		1.2337				
Neanthes succinea	0.0114	0.0409	0.0023	0.0023		0.1113
Nemertina		0.0477				
Paraehione luteola				0.0011		
Paraonis fulgens	0.0023					0.0023
Parapriospio pinnata		0.0011	0.0159	0.0136		0.0409
Parvilucina crenella		0.0364	0.0795	0.0011		
Pectinaria gouldii	0.0045	0.0568	0.0068	0.0409		
Phoronis spp.			0.0011			
Rictaxis punctostriatus		0.0011				
Sayella chesapeakea (Epi.)	0.0023					
Spirochaetopterus costarum				0.0409		
Streblospio benedicti				0.0364		0.0068
Tubificoides spp.	0.0045	0.0011				0.0011
Total Biomass w/ Epi fauna	0.6055	1.8221	0.1852	0.6998		0.2931
Total Biomass w/o Epi fauna	0.6009	1.8221	0.1852	0.6998		0.2931

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11512	11513	11514	11516	11518
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Sand	High Meso Sand	High Meso Sand	Low Mesohaline	Low Mesohaline
Date	08/31/04	08/31/04	08/31/04	09/29/04	09/28/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	6.6	8.1	3.8	2.2	3.0
Salinity (ppt)	12.92	12.42	12.24	10.52	10.83
Temperature (C)	25.61	25.61	26.34	21.42	22.15
Dissolved Oxygen (mg/L)	6.4	6.0	8.0	7.0	9.2
Sediment Silt-Clay (%)	1.19	6.80	2.10	1.58	56.87
Total Carbon (%)	0.10	0.30	0.05	0.14	1.06
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	2.00	3.33	2.20	3.40
Condition	Meets Goal	Severely Degr.	Meets Goal	Degraded	Meets Goal
# Attributes Scored	6	6	6	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	3.11 3	2.45 1	2.51 3	0.14 1	2.88 5
Abundance (#/m2)	909 1	1159 3	1318 3	65456 1	4430 3
Biomass (g/m2)	0.10 1	0.30 1	0.36 1	4.06 3	2.66 3
Pollution Indicative Spp Abund (%)	2.50 5	11.76 3	13.79 3	0.28 5	19.49 3
Pollution Indicative Spp Biom (%)	2.38	4.62	56.11	8.92	6.58
Pollution Sensitive Spp Abund (%)	35.00 3	9.80 1	41.38 5	0.03	8.21
Pollution Sensitive Spp Biom (%)	32.14	5.77	31.35	0.95 1	49.76 3
Carnivore-Omnivore Abundance (%)	50.00 5	21.57 3	51.72 5	0.28	13.85
Deep Deposit Feeder Abundance (%)	25.00	15.69	6.90	0.42	44.62

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11512	11513	11514	11516	11518
Acteocina canaliculata	91		500		
Ameroculodes species complex	23				
Carinoma tremaphoros			23		68
Cyathura polita					227
Edotea triloba (Epi.)	23				
Edwardsia elegans					45
Eteone foliosa				23	
Gemma gemma				64593	
Glycinde solitaria	204	68	23		23
Haminoea solitaria			91		
Heteromastus filiformis	91		91	250	1386
Hydrobiidae (Epi.)				1272	
Laeonereis culveri					23
Leitoscoloplos spp.				23	
Lepidactylus dytiscus				68	
Leptocheirus plumulosus				45	
Macoma balthica			23		91
Macoma mitchelli	159	545	341	114	1068
Marenzelleria viridis				23	23
Mediomastus ambi seta	23				
Micrura lei dyi	68	23	23	91	
Mulinia lateralis			159	23	136
Mytilopsis leucophaeata (Epi.)					23
Neanthes succinea	91	159	23	68	227
Odostomia engonia (Epi.)					114
Paraprionospio pinnata		23			
Parvilucina crenella	23				
Pectinaria gouldii		114			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11512	11513	11514	11516	11518
Phoronis spp.		45			
Streptosio benedicti	23	114	23	136	523
Tubificidae imm w/o cap chaetae					204
Tubificoides spp.	114	68			386
Total Abundance w/ Epi fauna	932	1159	1318	66729	4567
Total Abundance w/o Epi fauna	909	1159	1318	65456	4430
Number of Taxa w/ Epi fauna	12	9	11	13	16
Number of Taxa w/o Epi fauna	11	9	11	12	14
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11512	11513	11514	11516	11518
Acteocina canaliculata	0.0159		0.0341		
Ameroculodes species complex	0.0023				
Carinoma tremaphoros			0.0023		0.0227
Cyathura polita					0.2249
Edotea triloba (Epi.)	0.0011				
Edwardsia elegans					0.0273
Eteone foliosa				0.0045	
Gemma gemma				2.7764	
Glycinde solitaria	0.0136	0.0011	0.0023		0.0227
Haminoea solitaria			0.0159		
Heteromastus filiformis	0.0045		0.0091	0.0750	0.1340
Hydrobiidae (Epi.)				0.1500	
Laeonereis culveri					0.0227
Leitoscoloplos spp.				0.0011	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11512	11513	11514	11516	11518
Lepidactylus dytiscus				0.0454	
Leptocheirus plumulosus				0.0023	
Macoma balthica			0.0772		0.9383
Macoma mitchelli	0.0023	0.1431	0.0114	0.1477	0.3544
Marenzelleria viridis				0.0386	0.1363
Mediomastus ambiseta	0.0011				
Micrura leidyi	0.0250	0.0045	0.0045	0.5748	
Mulinia lateralis			0.2022	0.3499	0.1500
Mytilopsis leucophaeata (Epi.)					0.0011
Neanthes succinea	0.0250	0.0704	0.0023	0.0364	0.5884
Odostomia engonia (Epi.)					0.0023
Oligochaeta					0.0011
Parapriospio pinnata		0.0091			
Parvilucina crenella	0.0023				
Pectinaria gouldii		0.0454			
Phoronis spp.		0.0159			
Streblospio benedicti	0.0023	0.0045	0.0011	0.0114	0.0250
Tubificoides spp.	0.0011	0.0011			0.0091
Total Biomass w/ Epi fauna	0.0966	0.2954	0.3624	4.2134	2.6605
Total Biomass w/o Epi fauna	0.0954	0.2954	0.3624	4.0635	2.6571

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11519	11520	11521	11523	11524	
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem	
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	
Date	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab	
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044	
BOTTOM ENVIRONMENT						
Depth (m)	7.2	2.6	10.8	3.9	3.4	
Salinity (ppt)	7.90	9.63	10.38	7.56	7.11	
Temperature (C)	25.47	25.81	25.24	26.04	26.03	
Dissolved Oxygen (mg/L)	6.7	8.6	2.7	8.8	9.6	
Sediment Silt-Clay (%)	72.91	2.13	98.33	29.03	5.08	
Total Carbon (%)	2.49	0.15	3.42	0.52	0.18	
BENTHIC INDEX OF BIOTIC INTEGRITY						
B-IBI Score	2.60		1.40		3.40	
Condition	Degraded		Severely Degr.		Meets Goal	
# Attributes Scored	5		5		5	
	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	2.89	5	0.05	1	2.44	3
Abundance (#/m2)	1295	3	152179	1	7793	1
Biomass (g/m2)	1.07	3	6.24	5	2.91	3
Pollution Indicative Spp Abund (%)	21.05	1	0.03	5	4.37	5
Pollution Indicative Spp Biom (%)	8.91		4.01		0.78	
Pollution Sensitive Spp Abund (%)	8.77		0.01		2.92	
Pollution Sensitive Spp Biom (%)	5.73	1	0.02	1	7.42	1
Carnivore-Omnivore Abundance (%)	36.84		0.21		16.33	
Deep Deposit Feeder Abundance (%)	36.84		0.12		39.36	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11519	11520	11521	11523	11524
Amphiporus bioculatus	23				
Apocorophium lacustre (Epi.)					23
Carinoma tremaphoros	23			45	23
Cyathura polita		23		68	68
Edotea triloba (Epi.)		23		23	45
Eteone heteropoda	23		23	182	136
Gemma gemma	23	151497	45		
Geukensia demissa (Epi.)		23			
Glycinde solitaria	23				
Heteromastus filiformis	318	136		2590	318
Leitoscoloplos robustus	23		23		
Leitoscoloplos spp.		45			
Leptocheirus plumulosus				2454	136
Macoma balthica	23				45
Macoma mitchelli	68	182		682	841
Marenzelleria viridis				159	91
Mediomastus ambiseta	68				45
Melitanitida (Epi.)				68	
Micrura leidy		91			
Mulinia lateralis	23				
Neanthes succinea	386	204	295	977	364
Rhythropanopeus harrisi (Epi.)					23
Streblospio benedicti	204		273	159	45
Tubificoides spp.	68			477	545
Total Abundance w/ Epi fauna	1295	152224	659	7884	2749
Total Abundance w/o Epi fauna	1295	152179	659	7793	2658
Number of Taxa w/ Epi fauna	14	9	5	12	15
Number of Taxa w/o Epi fauna	14	7	5	10	12

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC BIOMASS (Grams per sq. meter)					
Site	11519	11520	11521	11523	11524
Amphiporus bioculatus	0.0011				
Apocorophium lacustre (Epi.)					0.0011
Carinoma tremaphoros	0.0045			0.0295	0.0182
Cyathura polita		0.0011		0.0273	0.0023
Edotea triloba (Epi.)		0.0011		0.0011	0.0045
Eteone heteropoda	0.0011		0.0011	0.0136	0.0091
Gemma gemma	0.0011	5.8118	0.0011		
Geukensia demissa (Epi.)		0.0011			
Glycyde solitaria	0.0011				
Heteromastus filiformis	0.1091	0.0545		1.0428	0.2136
Leitoscoloplos robustus	0.0659		0.1545		
Leitoscoloplos spp.		0.2499			
Leptocheirus plumosus				0.5862	0.0045
Macoma balthica	0.0591				0.3817
Macoma mitchelli	0.0545	0.0114		0.1250	0.0386
Marenzelleria viridis				0.1886	0.0727
Mediomastus ambiseta	0.0011				0.0011
Melitanitida (Epi.)				0.0011	
Micrura leidyi		0.0886			
Mulinia lateralis	0.0273				
Neanthes succinea	0.7429	0.0182	0.2522	0.8793	0.2317
Rhythropanopeus harrisi (Epi.)					0.2590
Streblospio benedicti	0.0011		0.0182	0.0091	0.0045
Tubificoides spp.	0.0011			0.0068	0.0068
Total Biomass w/ Epi fauna	1.0712	6.2378	0.4271	2.9104	1.2496
Total Biomass w/o Epi fauna	1.0712	6.2355	0.4271	2.9082	0.9849

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11525	11526	11528
Watershed	Mainstem	Mainstem	Mainstem
Habitat	Low Mesohaline	High Meso Mud	Low Mesohaline
Date	09/02/04	08/31/04	09/02/04
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	3.6	16.2	3.7
Salinity (ppt)	6.12	15.02	9.56
Temperature (C)	25.29	25.67	25.99
Dissolved Oxygen (mg/L)	8.8	6.2	8.3
Sediment Silt-Clay (%)	3.46	86.82	5.31
Total Carbon (%)	0.12	2.08	0.23
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	1.80	3.33	2.20
Condition	Severely Degr.	Meets Goal	Degraded
# Attributes Scored	5	6	5
	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.03 3	3.23 5	0.84 1
Abundance (#/m2)	1022 3	1136 3	6589 1
Biomass (g/m2)	0.10 1	0.84 3	0.73 1
Pollution Indicative Spp Abund (%)	26.67 1	28.00	0.00 5
Pollution Indicative Spp Biom (%)	11.76	19.62 3	0.00
Pollution Sensitive Spp Abund (%)	2.22	26.00	5.52
Pollution Sensitive Spp Biom (%)	1.18 1	23.00 1	41.49 3
Carnivore-Omnivore Abundance (%)	8.89	36.00 5	7.59
Deep Deposit Feeder Abundance (%)	4.44	18.00	1.72

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)			
Site	11525	11526	11528
<i>Acteocina canaliculata</i>		159	
<i>Ampelisca</i> spp.		23	
<i>Cyathura polita</i>	23		295
<i>Cyclaspis varians</i>			23
<i>Eteone heteropoda</i>	23		
<i>Gemma gemma</i>			5794
<i>Glycinde solitaria</i>			23
<i>Heteromastus filiformis</i>	45	159	114
<i>Leitoscoloplos robustus</i>		23	
<i>Leptocheirus plumulosus</i>	136		
<i>Leucon americanus</i>		23	
<i>Listriella barnardi</i>		23	
<i>Loimia medusa</i>		91	
<i>Macoma mitchelli</i>	500	23	114
<i>Marenzelleria viridis</i>			45
<i>Micrura leidyi</i>			91
<i>Neanthes succinea</i>	45	204	91
<i>Parahesione luteola</i>		23	
<i>Paraprierosio pinnata</i>		273	
<i>Pectinaria gouldii</i>		23	
<i>Podarkeopsis levi-fusci</i>		23	
<i>Spirochaetopterus costarum</i>		45	
<i>Streblospio benedicti</i>	250	23	
Total Abundance w/ Epi fauna	1022	1136	6589
Total Abundance w/o Epi fauna	1022	1136	6589
Number of Taxa w/ Epi fauna	7	15	9
Number of Taxa w/o Epi fauna	7	15	9

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)			
Site	11525	11526	11528
Acteocina canaliculata		0.0114	
Ampelisca spp.		0.0011	
Cyathura polita	0.0011		0.1409
Cyclaspis varians			0.0045
Eteone heteropoda	0.0023		
Gemma gemma			0.2272
Glycynde solitaria			0.0068
Heteromastus filiformis	0.0364	0.0023	0.0250
Leitoscoloplos robustus		0.1204	
Leptocheirus plumulosus	0.0045		
Leucon americanus		0.0011	
Listriella barnardi		0.0023	
Loimia medusa		0.1681	
Macoma tchellii	0.0318	0.0386	0.0023
Marenzelleria viridis			0.1568
Micrura leidyi			0.1159
Neanthes succinea	0.0114	0.4112	0.0545
Parahesione luteola		0.0011	
Parapriopriopsis pinnata		0.0432	
Pectinaria gouldii		0.0227	
Podarkeopsis levi-fusci		0.0011	
Spirochaetopterus costarum		0.0136	
Streblospio benedicti	0.0091	0.0011	
Total Biomass w/ Epi fauna	0.0966	0.8395	0.7339
Total Biomass w/o Epi fauna	0.0966	0.8395	0.7339

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11515	11517
Watershed	Mainstem	Mainstem
Habitat	Oligohaline	Oligohaline
Date	09/14/04	09/14/04
Gear	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	11.0	10.4
Salinity (ppt)	0.90	1.00
Temperature (C)	24.98	15.29
Dissolved Oxygen (mg/L)	2.1	5.8
Sediment Silt-Clay (%)	85.42	91.60
Total Carbon (%)	3.78	3.62
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	3.00	3.00
Condition	Meets Goal	Meets Goal
# Attributes Scored	4	4
	Value Score	Value Score
Shannon-Wiener Index	1.73 .	2.01 .
Abundance (#/m2)	682 5	1681 5
Deep Deposit Feeder Abundance (%)	3.33 .	9.46 .
Oligo. Poll. Ind. Spp. Abund. (%)	90.00 3	93.24 3
Tolerance Score	0.00 .	0.00 .
Oligo. Poll. Sens. Spp. Abund. (%)	0.00 1	0.00 1
Tany./Chir. Abund. Ratio	0.00 .	0.00 .
Carnivore-Omnivore Abundance (%)	26.67 3	27.03 3
Deep Deposit Feeder Abundance (%)	3.33 .	9.46 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)			
Site	11515	11517	
Acteocina canaliculata	.	23	.
Carinoma tremaphoros	23	23	.
Eteone heteropoda	45	.	.
Glycinde solitaria	.	68	.
Heteromastus filiformis	.	23	.
Lepidactylus dytiscus	.	23	.
Micrura leidy	.	23	.
Mulinia lateralis	23	23	.
Mytilopsis leucophaeata (Epi.)	.	23	.
Neanthes succinea	68	295	.
Parahesione luteola	45	23	.
Parapriospio pinnata	.	23	.
Streblospio benedicti	454	1000	.
Tubificoides spp.	23	136	.
Total Abundance w/ Epi fauna	682	1704	.
Total Abundance w/o Epi fauna	682	1681	.
Number of Taxa w/ Epi fauna	7	13	.
Number of Taxa w/o Epi fauna	7	12	.
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11515	11517	
Acteocina canaliculata	.	0.0011	.
Carinoma tremaphoros	0.0023	0.0011	.
Eteone heteropoda	0.0068	.	.
Glycinde solitaria	.	0.0045	.
Heteromastus filiformis	.	0.0023	.
Lepidactylus dytiscus	.	0.0011	.
Micrura leidy	.	0.0023	.
Mulinia lateralis	0.0011	0.0011	.
Mytilopsis leucophaeata (Epi.)	.	0.0011	.
Neanthes succinea	0.3158	0.4180	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11515	11517			
Parahesione luteola	0.0136	0.0011	.	.	.
Parapriospio pinnata	.	0.0011	.	.	.
Streblospio benedicti	0.0250	0.0364	.	.	.
Tubificoides spp.	0.0011	0.0011	.	.	.
Total Biomass	0.3658	0.4726	.	.	.
Total Biomass w/o Epi fauna	0.3658	0.4714	.	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11301	11302	11303	11304	11314
Watershed	Western Tri bs	Western Tri bs	Western Tri bs	Western Tri bs	Western Tri bs
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.9	2.0	2.7	2.9	16.0
Salinity (ppt)	8.04	7.09	8.31	7.10	10.85
Temperature (C)	26.30	26.29	27.65	25.88	24.71
Dissolved Oxygen (mg/L)	7.8	11.3	8.3	9.0	0.8
Sediment Silt-Clay (%)	55.53	4.22	98.06	8.03	94.67
Total Carbon (%)	1.07	0.11	2.53	0.21	3.24
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.20	3.00	3.80	3.00	2.20
Condition	Degraded	Meets Goal	Meets Goal	Meets Goal	Degraded
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.41 3	2.83 5	2.33 3	2.30 3	1.00 1
Abundance (#/m2)	9406 1	2658 3	1908 5	3044 3	45 1
Biomass (g/m2)	3.13 3	0.84 1	3.09 3	1.09 3	0.03 1
Pollution Indicative Spp Abund (%)	32.13 1	5.13 5	14.29 3	2.24 5	0.00 5
Pollution Indicative Spp Biom (%)	1.38	8.96	0.81	0.31	0.00
Pollution Sensitive Spp Abund (%)	15.46	16.24	42.86	13.43	50.00
Pollution Sensitive Spp Biom (%)	50.11 3	33.38 1	81.60 5	20.04 1	93.33 3
Carnivore-Omnivore Abundance (%)	13.77	10.26	7.14	9.70	50.00
Deep Deposit Feeder Abundance (%)	43.00	20.51	13.10	21.64	0.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11301	11302	11303	11304	11314
Ameroculodes species complex	23				
Apocorophium lacustre (Epi.)		136		23	
Carinoma tremaphoros	136				
Cyathura polita	1045	273	23	204	
Edotea triloba (Epi.)	23				
Eteone heteropoda	68		23	45	
Gemma gemma		68			
Heteromastus filiformis	659	523		659	
Lepidactylus dytiscus		727			
Leptocheirus plumulosus	227	364	477	750	
Macoma balthica		23	727	23	
Macoma mitchelli	454	386		1113	
Marenzelleria viridis	409	136	68	182	
Melita nitida (Epi.)	45			23	
Micrura lei dyi				23	
Mulinia lateralis		23			
Neanthes succinea	45		91		23
Rangia cuneata					23
Rhithropanopeus harrisi (Epi.)	23				
Streblospio benedicti	2954	114	250	23	
Tubificoides spp.	3385	23	250		
Total Abundance w/ Epi fauna	9497	2795	1908	3067	45
Total Abundance w/o Epi fauna	9406	2658	1908	3044	45
Number of Taxa w/ Epi fauna	14	12	8	11	2
Number of Taxa w/o Epi fauna	11	11	8	10	2

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	11301	11302	11303	11304	11314
Ameroculodes species complex	0.0045				
Apocorophium lacustre (Epi.)		0.0182		0.0011	
Carinoma tremaphoros	0.0182				
Cyathura polita	0.8406	0.1181	0.0364	0.1000	
Edotea triloba (Epi.)	0.0023				
Eteone heteropoda	0.0023		0.0159	0.0023	
Gemma gemma		0.0023			
Heteromastus filiformis	0.1568	0.1613		0.3249	
Lepidactylus dytiscus		0.2227			
Leptocheirus plumulosus	0.0613	0.0591	0.1908	0.1431	
Macoma balthica		0.1045	2.4333	0.0386	
Macoma mitchelli	0.5226	0.0364		0.3953	
Marenzelleria viridis	0.7293	0.0568	0.0500	0.0795	
Melita nitida (Epi.)	0.0068			0.0011	
Micrura lei dyi				0.0023	
Mulinia lateralis		0.0704			
Neanthes succinea	0.7225		0.3476		0.0023
Rangia cuneata					0.0318
Rhithropanopeus harrisi (Epi.)	0.1636				
Streblospio benedicti	0.0409	0.0045	0.0091	0.0011	
Tubificoides spp.	0.0341	0.0011	0.0045		
Total Biomass w/ Epi fauna	3.3058	0.8554	3.0876	1.0894	0.0341
Total Biomass w/o Epi fauna	3.1331	0.8372	3.0876	1.0883	0.0341

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11316	11317	11318	11326
Watershed	Western Tri bs	Western Tri bs	Western Tri bs	Western Tri bs
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/02/04	09/02/04	09/02/04	09/02/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT				
Depth (m)	5.0	5.6	8.2	5.8
Salinity (ppt)	5.00	5.03	6.27	5.74
Temperature (C)	26.02	25.96	25.44	25.95
Dissolved Oxygen (mg/L)	5.4	6.1	1.5	3.9
Sediment Silt-Clay (%)	92.78	91.41	91.81	92.13
Total Carbon (%)	3.81	4.20	4.09	3.50
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score	4.20	3.40	1.00	2.60
Condition	Meets Goal	Meets Goal	Severely Degr.	Degraded
# Attributes Scored	5	5	5	5
	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.55 1	2.69 5	0.91 1	2.20 3
Abundance (#/m2)	2181 5	2931 3	409 1	863 3
Biomass (g/m2)	9.52 5	2.77 3	0.04 1	1.46 3
Pollution Indicative Spp Abund (%)	0.00 5	20.93 1	88.89 1	36.84 1
Pollution Indicative Spp Biom (%)	0.00	0.66	17.65	0.47
Pollution Sensitive Spp Abund (%)	7.29	20.16	0.00	23.68
Pollution Sensitive Spp Biom (%)	91.78 5	81.52 5	0.00 1	67.34 3
Carnivore-Omnivore Abundance (%)	16.67	13.18	16.67	5.26
Deep Deposit Feeder Abundance (%)	7.29	13.95	0.00	23.68

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)				
Site	11316	11317	11318	11326
Carinoma tremaphoros		23	23	
Eteone heteropoda		23	23	
Heteromastus filiformis	91	136		
Hydrobiidae (Epi.)				45
Leptocheirus plumulosus	1477	909		
Littoridinops tenuipes (Epi.)			23	45
Macoma balthica	136	477		182
Macoma mitchelli	23	45		91
Melitanitida (Epi.)	386			
Neanthes succinea	364	341	23	45
Rangia cuneata	23	114		23
Streblospio benedicti		591	341	318
Tubificoides spp.	68	273		204
Turbellaria (Epi.)		23		
Total Abundance w/ Epi fauna	2567	2954	432	954
Total Abundance w/o Epi fauna	2181	2931	409	863
Number of Taxa w/ Epi fauna	8	11	5	8
Number of Taxa w/o Epi fauna	7	10	4	6
BENTHIC BIOMASS (Grams per sq. meter)				
Site	11316	11317	11318	11326
Carinoma tremaphoros		0.0011	0.0250	
Eteone heteropoda		0.0023	0.0023	
Heteromastus filiformis	0.0227	0.0136		
Hydrobiidae (Epi.)				0.0091

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.				
Site	11316	11317	11318	11326
Leptocheirus plumulosus	0.3590	0.2726		
Littoridinops tenuipes (Epi.)			0.0023	0.0011
Macoma balthica	1.5154	1.0633		0.8247
Macoma mitchelli	0.0114	0.0159		0.4453
Melita nitida (Epi.)	0.0159			
Neanthes succinea	0.3885	0.1886	0.0068	0.0204
Rangia cuneata	7.2227	1.1973		0.1590
Streblospio benedicti		0.0159	0.0045	0.0068
Tubificoides spp.	0.0011	0.0023		0.0045
Turbellaria (Epi.)		0.0011		
Total Biomass w/ Epi fauna	9.5367	2.7741	0.0409	1.4711
Total Biomass w/o Epi fauna	9.5208	2.7730	0.0386	1.4609

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11305	11306	11307	11308	11309
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/14/04	09/14/04	09/14/04	09/14/04	09/14/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	6.4	5.4	2.4	1.2	6.0
Salinity (ppt)	0.70	0.80	0.80	0.70	0.70
Temperature (C)	23.24	15.90	16.33	25.67	20.35
Dissolved Oxygen (mg/L)	2.0	4.2	8.5	7.7	3.3
Sediment Silt-Clay (%)	97.92	96.53	3.34	2.15	69.43
Total Carbon (%)	3.25	3.36	0.15	0.21	7.08
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.50	1.00	2.50	2.20	1.00
Condition	Severely Degr.	Severely Degr.	Degraded	Degraded	Severely Degr.
# Attributes Scored	4	5	4	5	4
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.67 .	1.71 .	2.19 .	2.22 .	0.81 .
Abundance (#/m2)	12860 1	12155 1	7475 1	4067 1	91 1
Deep Deposit Feeder Abundance (%)	42.58 .	35.51 .	9.42 .	4.47 .	75.00 .
Oligo. Poll. Ind. Spp. Abund. (%)	98.59 1	99.81 1	25.53 5	12.85 5	100.00 1
Tolerance Score	0.00 .	9.80 1	0.00 .	9.80 1	0.00 .
Oligo. Poll. Sens. Spp. Abund. (%)	0.53 3	0.00 1	14.89 3	13.41 3	0.00 1
Tany./Chir. Abund. Ratio	0.00 .	0.00 .	0.00 .	0.00 .	0.00 .
Carnivore-Omnivore Abundance (%)	1.24 1	1.12 1	7.90 1	7.82 1	0.00 1
Deep Deposit Feeder Abundance (%)	42.58 .	35.51 .	9.42 .	4.47 .	75.00 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)						
Site	11305	11306	11307	11308	11309	
<i>Almyracuma proximoculi</i>	.	.	.	23	.	.
<i>Apocorophium lacustre</i> (Epi.)	.	.	.	23	.	.
<i>Carinoma tremaphoros</i>	23	.	23	.	.	.
<i>Cyathura polita</i>	.	.	432	91	.	.
<i>Edotea triloba</i> (Epi.)	.	.	182	.	.	.
<i>Edwardsia elegans</i>	.	.	23	45	.	.
<i>Erichsonella filiformis</i> (Epi.)	.	.	.	114	.	.
<i>Eteone heteropoda</i>	.	.	91	91	.	.
<i>Geukensia demissa</i> (Epi.)	.	.	45	.	.	.
<i>Hargeria rapax</i>	.	.	.	636	.	.
<i>Heteromastus filiformis</i>	182	68	682	114	.	.
<i>Leptocheirus plumulosus</i>	1454	1908	409	.	.	.
<i>Macoma balthica</i>	68	.	.	.	.	.
<i>Macoma mitchelli</i>	23	23	3976	2204	.	.
<i>Marenzelleria viridis</i>	68	.	1113	545	.	.
<i>Melita nitida</i> (Epi.)	204	386	.	.	.	.
<i>Mulinia lateralis</i>	.	.	.	136	.	.
<i>Neanthes succinea</i>	136	136	23	91	.	.
<i>Parapriopionospio pinnata</i>	.	.	23	.	.	.
<i>Streblospio benedicti</i>	5612	5771	659	23	23	23
<i>Tubificidae</i> imm w/o cap chaetae	.	273	.	68	.	.
<i>Tubificoides</i> spp.	5294	3976	23	.	68	68
<i>Turbellaria</i> (Epi.)	.	.	.	23	.	.
Total Abundance w/ Epi fauna	13064	12541	7702	4226	91	91
Total Abundance w/o Epi fauna	12860	12155	7475	4067	91	91
Number of Taxa w/ Epi fauna	10	8	14	15	2	2
Number of Taxa w/o Epi fauna	9	7	12	12	2	2
BENTHIC BIOMASS (Grams per sq. meter)						
Site	11305	11306	11307	11308	11309	
<i>Almyracuma proximoculi</i>	.	.	.	0.0011	.	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11305	11306	11307	11308	11309
Apocorophium lacustre (Epi.)	.	.	.	0.0011	.
Carinoma tremaphoros	0.0045	.	0.0068	.	.
Cyathura polita	.	.	0.3703	0.0477	.
Edotea triloba (Epi.)	.	.	0.0011	.	.
Edwardsia elegans	.	.	0.0011	0.0023	.
Erichsonella filiformis (Epi.)	.	.	.	0.0136	.
Eteone heteropoda	.	.	0.0011	0.0068	.
Geukensia demissa (Epi.)	.	.	0.0011	.	.
Hargeria rapax	.	.	.	0.0159	.
Heteromastus filiformis	0.0977	0.0273	0.2840	0.1272	.
Leptocheirus plumulosus	0.4021	0.3908	0.0591	.	.
Macoma balthica	0.2772	.	.	.	.
Macoma mitchelli	0.0159	0.0227	0.1954	0.5657	.
Marenzelleria viridis	0.1590	.	0.4430	0.3953	.
Melitanitida (Epi.)	0.0068	0.0136	.	.	.
Mulinia lateralis	.	.	.	0.1477	.
Neanthes succinea	0.5180	0.4726	0.0011	0.0954	.
Oligochaeta	.	0.0011	.	0.0011	.
Parapriospio pinnata	.	.	0.0011	.	.
Streblospio benedicti	0.0954	0.0795	0.0045	0.0011	0.0011
Tubificoides spp.	0.0818	0.0477	0.0011	.	0.0011
Turbellaria (Epi.)	.	.	.	0.0011	.
Total Biomass	1.6586	1.0553	1.3712	1.4234	0.0023
Total Biomass w/o Epi fauna	1.6517	1.0417	1.3689	1.4075	0.0023

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11310	11311	11312	11313	11315
Watershed	Western Tri bs	Western Tri bs	Western Tri bs	Western Tri bs	Western Tri bs
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/14/04	09/02/04	09/02/04	09/02/04	09/02/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	13.8	4.8	4.5	4.2	3.3
Salinity (ppt)	0.60	4.28	4.25	4.53	4.72
Temperature (C)	16.93	25.49	25.72	26.09	25.60
Dissolved Oxygen (mg/L)	6.5	5.9	7.3	6.2	5.8
Sediment Silt-Clay (%)	90.46	76.42	5.41	19.36	16.74
Total Carbon (%)	3.36	2.13	0.42	1.01	0.89
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.00	2.20	2.60	2.60	2.60
Condition	Severely Degr.	Degraded	Degraded	Degraded	Degraded
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.56 .	2.53 .	2.52 .	2.95 .	2.58 .
Abundance (#/m2)	5226 1	3726 3	4317 1	6430 1	12360 1
Deep Deposit Feeder Abundance (%)	57.39 .	20.12 .	0.53 .	16.96 .	6.80 .
Oligo. Poll. Ind. Spp. Abund. (%)	98.26 1	82.32 3	47.37 3	50.53 3	73.53 3
Tolerance Score	9.40 1	6.63 3	6.00 5	6.00 5	6.00 5
Oligo. Poll. Sens. Spp. Abund. (%)	0.00 1	0.00 1	19.47 3	15.55 3	6.43 3
Tany./Chir. Abund. Ratio	0.00 .	0.00 .	0.00 .	0.00 .	0.00 .
Carnivore-Omnivore Abundance (%)	2.17 1	12.20 1	6.84 1	9.89 1	9.38 1
Deep Deposit Feeder Abundance (%)	57.39 .	20.12 .	0.53 .	16.96 .	6.80 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11310	11311	11312	11313	11315
Apocorophium lacustre (Epi.)	.	.	45	23	273
Carinoma tremaphoros	23	.	.	.	45
Chiridotea almyra	.	.	.	91	.
Cyathura polita	.	.	114	204	454
Edotea triloba (Epi.)	.	23	.	863	409
Eteone heteropoda	.	23	159	341	318
Geukensia demissa (Epi.)	.	.	182	454	182
Heteromastus filiformis	204	159	23	182	136
Hobsonia florida	.	.	.	.	136
Laeonereis culveri	.	23	.	.	.
Leptocheirus plumulosus	23	1704	250	409	.
Littoridinops tenuipes (Epi.)	23	159	.	.	68
Macoma balthica	68	136	23	273	23
Macoma mitchelli	.	45	45	136	295
Marenzelleria viridis	.	.	841	909	750
Melitanitida (Epi.)	.	477	.	.	.
Mytilopsis leucophaeata (Epi.)	.	68	4226	523	5839
Neanthes succinea	91	409	23	.	341
Paraprierospio pinnata	.	23	.	.	.
Polydora cornuta	.	.	1250	.	5521
Rangia cuneata	.	454	1250	1568	1568
Rhythropanopeus harrisi (Epi.)	.	.	.	.	45
Streblospio benedicti	2022	159	341	1409	2068
Stylochus ellipticus (Epi.)	.	.	23	.	.
Tubificidae imm w cap chaetae	91	.	.	.	.
Tubificidae imm w/o cap chaetae	.	91	.	.	.
Tubificoides spp.	2704	500	.	909	704
Total Abundance w/ Epi fauna	5248	4453	8793	8293	19176
Total Abundance w/o Epi fauna	5226	3726	4317	6430	12360
Number of Taxa w/ Epi fauna	9	16	15	15	19
Number of Taxa w/o Epi fauna	8	12	11	11	13

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC BIOMASS (Grams per sq. meter)					
Site	11310	11311	11312	11313	11315
Apocorophum lacustre (Epi.)	.	.	0.0011	0.0023	0.0250
Carinoma tremaphoros	0.0068	.	.	.	.
Chiridotea almyra	.	.	.	0.0227	0.0091
Cyathura polita	.	.	0.0682	0.1772	0.1727
Edotea triloba (Epi.)	.	0.0011	.	0.0386	0.0136
Eteone heteropoda	.	0.0045	0.0318	0.0500	0.0318
Geukensia demissa (Epi.)	.	.	1.1610	0.0114	2.2266
Heteromastus filiformis	0.1500	0.0409	0.0023	0.0750	0.0591
Hobsonia florida	.	.	.	.	0.0045
Laeonereis culveri	.	0.0011	.	.	.
Leptocheirus plumulosus	0.0011	0.2658	0.0523	0.0659	.
Littoridinops tenuipes (Epi.)	0.0011	0.0045	.	.	0.0011
Macoma balthica	1.7631	2.9332	1.0383	4.3759	0.0114
Macoma mitchelli	.	0.0295	0.0682	0.0386	0.0045
Marenzelleria viridis	.	.	0.4090	0.1272	0.5453
Melita nitida (Epi.)	.	0.0250	.	.	.
Mytilopsis leucophaea (Epi.)	.	0.0636	14.2454	0.9951	24.4694
Neanthes succinea	0.6702	0.5430	0.0863	.	0.9974
Oligochaeta	0.0011	0.0011	.	.	.
Parapriospio pinnata	.	0.0011	.	.	.
Polydora cornuta	.	.	0.0227	.	0.1659
Rangia cuneata	.	6.3820	21.9839	8.6404	37.6289
Rhithropanopeus harrisi (Epi.)	.	.	.	.	0.4680
Streblospio benedicti	0.1091	0.0011	0.0045	0.0159	0.0341
Stylochus ellipticus (Epi.)	.	.	0.0023	.	.
Tubificoides spp.	0.0318	0.0011	.	0.0045	0.0068
Total Biomass	2.7344	10.2990	39.1772	14.6408	66.8752
Total Biomass w/o Epi fauna	2.7332	10.2047	23.7674	13.5934	39.6714

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11319	11320	11321	11322	11323
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/02/04	09/24/04	09/02/04	09/24/04	09/16/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.5	2.2	3.8	2.5	5.1
Salinity (ppt)	4.39	0.93	4.45	0.57	1.37
Temperature (C)	25.92	22.08	26.01	21.27	24.21
Dissolved Oxygen (mg/L)	6.1	8.5	5.6	7.3	5.6
Sediment Silt-Clay (%)	90.92	91.41	82.43	80.34	88.45
Total Carbon (%)	1.23	4.03	4.47	3.26	3.70
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.40	1.67	2.60	3.00	3.33
Condition	Meets Goal	Severely Degr.	Degraded	Meets Goal	Meets Goal
# Attributes Scored	5	6	5	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.57 .	1.66 .	1.42 .	1.36 .	2.43 .
Abundance (#/m2)	1999 5	3067 5	273 3	2136 5	636 5
Deep Deposit Feeder Abundance (%)	15.91 .	75.56 .	16.67 .	4.26 .	3.57 .
Oligo. Poll. Ind. Spp. Abund. (%)	56.82 3	100.00 1	83.33 3	13.83 5	67.86 3
Tolerance Score	6.00 5	9.53 1	6.00 5	6.02 3	7.28 3
Oligo. Poll. Sens. Spp. Abund. (%)	4.55 3	0.00 1	0.00 1	6.38 3	7.14 3
Tany./Chir. Abund. Ratio	0.00 .	77.78 1	0.00 .	100.00 1	85.71 1
Carnivore-Omnivore Abundance (%)	6.82 1	6.67 1	8.33 1	12.77 1	78.57 5
Deep Deposit Feeder Abundance (%)	15.91 .	75.56 .	16.67 .	4.26 .	3.57 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11319	11320	11321	11322	11323
<i>Carinoma tremaphoros</i>	45	.	23	.	.
<i>Chironomus</i> spp.	.	45	.	.	.
<i>Coelotanypus</i> spp.	.	159	.	204	250
<i>Cyathura polita</i>	91	.	.	68	23
<i>Gammarus</i> spp. (Epi.)	.	23	.	.	.
<i>Heteromastus filiformis</i>	23	.	.	.	.
<i>Hobsonia florida</i>	.	.	.	45	.
<i>Leptocheirus plumosus</i>	.	477	.	.	.
<i>Littoridinops tenuipes</i> (Epi.)	159	.	45	.	.
<i>Macoma balthica</i>	227	.	.	.	.
<i>Macoma mitchelli</i>	204	.	.	.	.
<i>Marenzelleria viridis</i>	91	.	.	136	45
<i>Microchironomus</i> spp.	.	.	.	.	23
<i>Rangia cuneata</i>	204	.	23	1590	68
<i>Streblospio benedicti</i>	818	68	182	.	.
<i>Tanytus neopunctipennis</i>	.	.	.	.	159
<i>Tanytarsus</i> spp. G Epler	.	.	.	.	45
<i>Tubificidae</i> imm w/o cap chaetae	.	1908	.	.	.
<i>Tubificoides</i> spp.	295	409	45	91	23
Total Abundance w/ Epi fauna	2158	3090	318	2136	636
Total Abundance w/o Epi fauna	1999	3067	273	2136	636
Number of Taxa w/ Epi fauna	10	7	5	6	8
Number of Taxa w/o Epi fauna	9	6	4	6	8
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11319	11320	11321	11322	11323
<i>Carinoma tremaphoros</i>	0.0182	.	0.0091	.	.
<i>Chironomidae</i>	.	0.0011	.	.	0.0011
<i>Coelotanypus</i> spp.	.	0.0409	.	0.0227	0.0704
<i>Cyathura polita</i>	0.1977	.	.	0.0273	0.0136
<i>Gammarus</i> spp. (Epi.)	.	0.0023	.	.	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11319	11320	11321	11322	11323
Heteromastus filiformis	0.0011	.	.	.	.
Hobsonia florida	.	.	.	0.0045	.
Leptochieris plumosus	.	0.1545	.	.	.
Littoridinops tenuipes (Epi.)	0.0011	.	0.0011	.	.
Macoma balthica	1.6177	.	.	.	.
Macoma mitchelli	0.4544	.	.	.	.
Marenzelleria viridis	0.1136	.	.	0.3226	0.2613
Oligochaeta	.	0.0682	.	.	.
Rangia cuneata	1.9085	.	0.0295	59.9376	51.0473
Streblospio benedicti	0.0182	0.0045	0.0023	.	.
Tubificoides spp.	0.0023	0.0023	0.0011	0.0011	0.0011
Total Biomass	4.3327	0.2738	0.0432	60.3159	51.3949
Total Biomass w/o Epi fauna	4.3316	0.2715	0.0420	60.3159	51.3949

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11324	
Watershed	Western Tribs	
Habitat	Oligohaline	
Date	09/16/04	
Gear	Young Grab	
Sampled Area (sq. m)	0.044	
BOTTOM ENVIRONMENT		
Depth (m)	1.1	
Salinity (ppt)	0.52	
Temperature (C)	22.67	
Dissolved Oxygen (mg/L)	6.2	
Sediment Silt-Clay (%)	6.40	
Total Carbon (%)	0.17	
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	3.00	
Condition	Meets Goal	
# Attributes Scored	6	
	Value	Score
Shannon-Wiener Index	2.71	.
Abundance (#/m2)	16540	1
Deep Deposit Feeder Abundance (%)	31.32	.
Oligo. Poll. Ind. Spp. Abund. (%)	42.03	3
Tolerance Score	7.48	3
Oligo. Poll. Sens. Spp. Abund. (%)	0.00	1
Tany./Chir. Abund. Ratio	0.00	5
Carnivore-Omnivore Abundance (%)	59.07	5
Deep Deposit Feeder Abundance (%)	31.32	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)	
Site	11324
Almyracuma proximoculi	432
Amphiporus bioculatus	204
Chironomidae pupae *	1272
Corbicula fluminea	954
Cyathura polita	23
Dugesia tigrina (Epi.)	91
Ferriisia spp. (Epi.)	91
Gammarus spp. (Epi.)	341
Hydrobiidae (Epi.)	23
Limnodrilus hoffmeisteri	136
Nais variabilis	136
Oecetis spp. (Epi.)	23
Polypedilum halterale group	954
Rangia cuneata	204
Rheotanytarsus spp.	7157
Thienemanniella spp.	159
Tubificidae imm w cap chaetae	1636
Tubificidae imm w/o cap chaetae *	2545
Tubificoides spp.	727
Total Abundance w/ Epi fauna	17108
Total Abundance w/o Epi fauna	16540
Number of Taxa w/ Epi fauna	17
Number of Taxa w/o Epi fauna	12
BENTHIC BIOMASS (Grams per sq. meter)	
Site	11324
Almyracuma proximoculi	0.0068
Amphiporus bioculatus	0.0068
Chironomidae	0.3908
Chironomidae pupae *	0.0454
Corbicula fluminea	0.2068

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

		BENTHIC BIOMASS (Grams per sq. meter) - Contd.			
Site		11324			
Cyathura polita		0.0011	.	.	.
Dugesia tigrina	(Epi.)	0.0011	.	.	.
Ferri sia spp.	(Epi.)	0.0045	.	.	.
Gammarus spp.	(Epi.)	0.0204	.	.	.
Hydrobiidae	(Epi.)	0.0011	.	.	.
Oecetis spp.	(Epi.)	0.0011	.	.	.
Oligochaeta		0.0659	.	.	.
Rangia cuneata		111.9937	.	.	.
Tubificoides spp.		0.0011	.	.	.
Total Biomass		112.7469	.	.	.
Total Biomass w/o Epi fauna		112.7185	.	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11101	11102	11103	11104	11105
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	High Meso Mud	Low Mesohaline
Date	08/30/04	08/30/04	08/30/04	08/30/04	08/30/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	5.9	11.8	12.3	14.8	6.4
Salinity (ppt)	12.50	13.63	13.69	13.48	10.50
Temperature (C)	25.87	24.85	25.14	24.96	25.90
Dissolved Oxygen (mg/L)	6.2	2.7	4.0	1.8	5.2
Sediment Silt-Clay (%)	81.23	93.67	94.92	95.58	84.20
Total Carbon (%)	2.33	3.60	3.44	2.61	2.92
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	1.00	1.67	2.33	1.80
Condition	Meets Goal	Severely Degr.	Severely Degr.	Degraded	Severely Degr.
# Attributes Scored	6	6	6	6	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.29 3	0.00 1	0.62 1	0.00 1	0.08 1
Abundance (#/m2)	750 1	0 1	295 1	23 1	2136 5
Biomass (g/m2)	0.62 3	0.00 1	0.07 1	0.00 1	0.14 1
Pollution Indicative Spp Abund (%)	51.52	100.00	84.62	0.00	98.94
Pollution Indicative Spp Biom (%)	2.20 5	100.00 1	16.13 3	0.00 5	55.56
Pollution Sensitive Spp Abund (%)	3.03	0.00	0.00	0.00	0.00
Pollution Sensitive Spp Biom (%)	0.18 1	0.00 1	0.00 1	0.00 1	0.00 1
Carnivore-Omnivore Abundance (%)	36.36 5	0.00 1	15.38 3	100.00 5	0.00
Deep Deposit Feeder Abundance (%)	15.15	0.00	0.00	0.00	1.06

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11101	11102	11103	11104	11105
Chironomus spp.	45				
Gammarus dai beri (Epi.)	23				
Glycinde solitaria	23				
Heteromastus filiformis					23
Macoma mitchelli	23				
Neanthes succinea	182		45	23	
Parapriospio pinnata	23				
Rictaxis punctostriatus	23				
Streblospio benedicti	318		250		2113
Tubificoides spp.	114				
Total Abundance w/ Epi fauna	772	0	295	23	2136
Total Abundance w/o Epi fauna	750		295	23	2136
Number of Taxa w/ Epi fauna	9	0	2	1	2
Number of Taxa w/o Epi fauna	8	0	2	1	2
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11101	11102	11103	11104	11105
Chironomidae	0.0011				
Gammarus dai beri (Epi.)	0.0011				
Glycinde solitaria	0.0011				
Heteromastus filiformis					0.0636
Macoma mitchelli	0.0613				
Neanthes succinea	0.5407		0.0591	0.0011	
Parapriospio pinnata	0.0023				
Rictaxis punctostriatus	0.0011				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.						
Site	11101	11102	11103	11104	11105	
Streblospio benedicti	0.0114		0.0114			0.0795
Tubificoides spp.	0.0011					
Total Biomass w/ Epi fauna	0.6214	0.0011	0.0704	0.0011		0.1431
Total Biomass w/o Epi fauna	0.6203	0.0011	0.0704	0.0011		0.1431

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11106	11107	11108	11109	11110	
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R	
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	
Date	08/30/04	08/30/04	08/30/04	08/30/04	08/30/04	
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab	
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044	
BOTTOM ENVIRONMENT						
Depth (m)	7.8	7.6	7.5	7.7	9.2	
Salinity (ppt)	10.49	10.92	10.60	10.65	10.83	
Temperature (C)	25.86	25.97	25.41	25.44	26.09	
Dissolved Oxygen (mg/L)	4.8	6.7	1.6	2.4	6.6	
Sediment Silt-Clay (%)	97.09	94.49	94.46	94.67	80.09	
Total Carbon (%)	3.33	3.41	3.64	3.13	2.64	
BENTHIC INDEX OF BIOTIC INTEGRITY						
B-IBI Score	1.00	1.00	1.00	1.00	1.00	
Condition	Severely Degr.	Severely Degr.	Severely Degr.	Severely Degr.	Severely Degr.	
# Attributes Scored	5	5	5	5	5	
	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	0.30	1	0.00	1	0.00	1
Abundance (#/m2)	432	1	0	1	0	1
Biomass (g/m2)	0.01	1	0.00	1	0.00	1
Pollution Indicative Spp Abund (%)	94.74	1	100.00	1	100.00	1
Pollution Indicative Spp Biom (%)	83.33	1	100.00	1	100.00	1
Pollution Sensitive Spp Abund (%)	0.00	1	0.00	1	0.00	1
Pollution Sensitive Spp Biom (%)	0.00	1	0.00	1	0.00	1
Carnivore-Omnivore Abundance (%)	0.00	1	0.00	1	0.00	1
Deep Deposit Feeder Abundance (%)	5.26	1	0.00	1	0.00	1

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11106	11107	11108	11109	11110
Apocorophium lacustre (Epi.)				23	
Neanthes succinea					23
Paraprierospio pinnata					23
Streblospio benedicti	409				23
Tubificoides spp.	23				
Total Abundance w/ Epi fauna	432	0	0	23	68
Total Abundance w/o Epi fauna	432				68
Number of Taxa w/ Epi fauna	2	0	0	1	3
Number of Taxa w/o Epi fauna	2	0	0		3
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11106	11107	11108	11109	11110
Apocorophium lacustre (Epi.)				0.0011	
Neanthes succinea					0.0011
Paraprierospio pinnata					0.0091
Streblospio benedicti	0.0114				0.0011
Tubificoides spp.	0.0023				
Total Biomass w/ Epi fauna	0.0136	0.0011	0.0011	0.0011	0.0114
Total Biomass w/o Epi fauna	0.0136	0.0011	0.0011		0.0114

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11111	11112	11113	11127
Watershed	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	High Meso Mud
Date	08/30/04	08/30/04	08/30/04	08/30/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT				
Depth (m)	6.0	4.3	4.3	13.0
Salinity (ppt)	10.02	10.13	7.56	13.94
Temperature (C)	25.97	26.92	26.61	24.80
Dissolved Oxygen (mg/L)	5.5	7.5	7.3	4.1
Sediment Silt-Clay (%)	97.58	78.40	89.15	93.32
Total Carbon (%)	3.12	2.72	2.02	3.84
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score	1.00	1.00	3.80	1.00
Condition	Severely Degr.	Severely Degr.	Meets Goal	Severely Degr.
# Attributes Scored	5	5	5	6
	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	0.00 1	0.00 1	1.94 3	0.81 1
Abundance (#/m2)	0 1	68 1	1091 3	91 1
Biomass (g/m2)	0.00 1	0.00 1	1.41 3	0.00 1
Pollution Indicative Spp Abund (%)	100.00 1	100.00 1	0.00 5	75.00 1
Pollution Indicative Spp Biom (%)	100.00	100.00	0.00	50.00
Pollution Sensitive Spp Abund (%)	0.00	0.00	20.83	0.00
Pollution Sensitive Spp Biom (%)	0.00 1	0.00 1	88.90 5	0.00 1
Carnivore-Omnivore Abundance (%)	0.00	0.00	12.50	0.00 1
Deep Deposit Feeder Abundance (%)	0.00	0.00	25.00	25.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)				
Site	11111	11112	11113	11127
Cyathura polita			91	
Glycinde solitaria			23	
Leptocheirus plumulosus			568	
Macoma balthica			91	
Marenzelleria viridis			23	
Melitanitida (Epi.)			682	
Neanthes succinea			23	
Streblospio benedicti		68		68
Tubificoides spp.			273	23
Total Abundance w/ Epi fauna	0	68	1772	91
Total Abundance w/o Epi fauna		68	1091	91
Number of Taxa w/ Epi fauna	0	1	8	2
Number of Taxa w/o Epi fauna	0	1	7	2
BENTHIC BIOMASS (Grams per sq. meter)				
Site	11111	11112	11113	11127
Cyathura polita			0.1613	
Glycinde solitaria			0.0011	
Leptocheirus plumulosus			0.1500	
Macoma balthica			1.0565	
Marenzelleria viridis			0.0364	
Melitanitida (Epi.)			0.0318	
Neanthes succinea			0.0023	
Streblospio benedicti		0.0011		0.0011

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site		11111	11112	11113	11127
Tubi fi coi des spp.				0.0045	0.0011
Total Biomass w/ Epi fauna		0.0011	0.0011	1.4439	0.0023
Total Biomass w/o Epi fauna		0.0011	0.0011	1.4120	0.0023

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11114	11115	11116	11118
Watershed	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/15/04	09/15/04	09/15/04	09/15/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT				
Depth (m)	4.2	4.2	1.9	7.2
Salinity (ppt)	0.50	0.50	0.70	0.50
Temperature (C)	24.40	24.59	24.36	24.90
Dissolved Oxygen (mg/L)	6.1	5.3	5.5	4.6
Sediment Silt-Clay (%)	96.48	93.92	93.72	94.94
Total Carbon (%)	2.33	2.15	2.78	2.40
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score	1.80	2.50	1.00	2.60
Condition	Severely Degr.	Degraded	Severely Degr.	Degraded
# Attributes Scored	5	4	5	5
	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.83	1.92	0.89	2.00
Abundance (#/m2)	3976	1022	9611	3476
Deep Deposit Feeder Abundance (%)	50.86	22.22	83.45	43.79
Oligo. Poll. Ind. Spp. Abund. (%)	96.57	88.89	99.05	86.93
Tolerance Score	8.28	0.00	9.80	6.00
Oligo. Poll. Sens. Spp. Abund. (%)	0.00	0.00	0.00	0.00
Tany./Chir. Abund. Ratio	0.00	0.00	0.00	0.00
Carnivore-Omnivore Abundance (%)	3.43	11.11	0.71	3.27
Deep Deposit Feeder Abundance (%)	50.86	22.22	83.45	43.79

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)				
Site	11114	11115	11116	11118
<i>Carinoma tremaphoros</i>	.	.	.	23
<i>Cyathura polita</i>	91	91	68	23
<i>Eteone heteropoda</i>	.	23	.	.
<i>Leptocheirus plumulosus</i>	704	523	454	1091
<i>Macoma balthica</i>	.	23	.	364
<i>Macoma mitchelli</i>	.	.	23	.
<i>Melitanida</i> (Epi.)	432	500	500	318
<i>Neanthes succinea</i>	45	.	.	68
<i>Rangia cuneata</i>	45	.	.	45
<i>Streblospio benedicti</i>	1068	136	1045	341
Tubificidae imm w/o cap chaetae	68	.	45	.
Tubificoides spp.	1954	227	7975	1522
Total Abundance w/ Epi fauna	4408	1522	10110	3794
Total Abundance w/o Epi fauna	3976	1022	9611	3476
Number of Taxa w/ Epi fauna	8	7	7	9
Number of Taxa w/o Epi fauna	7	6	6	8
BENTHIC BIOMASS (Grams per sq. meter)				
Site	11114	11115	11116	11118
<i>Carinoma tremaphoros</i>	.	.	.	0.0091
<i>Cyathura polita</i>	0.0159	0.3272	0.3340	0.0227
<i>Eteone heteropoda</i>	.	0.0045	.	.
<i>Leptocheirus plumulosus</i>	0.1204	0.1363	0.0432	0.1545
<i>Macoma balthica</i>	.	0.2976	.	0.9383
<i>Macoma mitchelli</i>	.	.	0.4408	.
<i>Melitanida</i> (Epi.)	0.0159	0.0159	0.0204	0.0159
<i>Neanthes succinea</i>	0.0182	.	.	0.0977
<i>Oligochaeta</i>	0.0011	.	0.0011	.
<i>Rangia cuneata</i>	0.5203	.	.	0.4589
<i>Streblospio benedicti</i>	0.0432	0.0045	0.0454	0.0045

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11114	11115	11116	11118	
Tubi fi coi des spp.	0.0136	0.0011	0.0591	0.0136	.
Total Biomass	0.7486	0.7872	0.9440	1.7154	.
Total Biomass w/o Epi fauna	0.7327	0.7713	0.9236	1.6995	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11117	11120	11121	11122	11123
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	Freshwater	Freshwater	Freshwater	Freshwater	Freshwater
Date	09/15/04	09/15/04	09/15/04	09/15/04	09/15/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	1.1	2.9	20.4	7.1	5.2
Salinity (ppt)	0.30	0.40	0.18	0.17	0.16
Temperature (C)	23.75	24.16	24.80	23.92	24.01
Dissolved Oxygen (mg/L)	5.2	5.7	6.0	6.5	8.8
Sediment Silt-Clay (%)	8.36	83.58	97.14	97.13	90.24
Total Carbon (%)	0.21	1.40	3.10	2.72	2.73
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	4.50	5.00	4.00	3.50	5.00
Condition	Meets Goal	Meets Goal	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	4	4	4	4	4
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	3.00 .	2.10 .	2.06 .	1.73 .	2.75 .
Abundance (#/m2)	4726 3	3453 5	1477 5	2636 5	1227 5
Deep Deposit Feeder Abundance (%)	28.85 5	52.63 5	67.69 5	76.72 3	44.44 5
T.F. Poll. Ind. Spp. Abund. (%)	0.00 5	3.29 5	67.69 3	62.07 3	11.11 5
Tolerance Score	6.00 5	7.82 5	9.13 3	8.43 3	7.65 5
Limnodrilus Abundance (%)	0.00 .	3.29 .	67.69 .	62.07 .	11.11 .
Carnivore-Omnivore Abundance (%)	13.46 .	6.58 .	27.69 .	23.28 .	50.00 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-75

BENTHIC ABUNDANCE (per sq. meter)					
Site	11117	11120	11121	11122	11123
Ameroculodes species complex	23	.	.	.	.
Aulodrilus pigueti	.	.	.	273	318
Branchiura sowerbyi	.	.	.	23	.
Carinoma tremaphoros	23	23	.	.	.
Chaoborus punctipennis	.	.	227	23	204
Chironomus spp.	.	.	.	.	250
Coelotanypus spp.	.	114	182	591	159
Cyathura polita	136	91	.	.	.
Edotea triloba (Epi.)	45	.	.	.	.
Eteone heteropoda	45	.	.	.	.
Gammarus spp. (Epi.)	.	.	23	.	.
Heteromastus filiformis	23	.	.	.	.
Hobsonia florida	977	.	.	.	.
Laeonereis culveri	341	.	.	.	.
Leptocheirus plumulosus	364	136	23	.	.
Limnodrilus hoffmeisteri	.	.	636	91	91
Littoridinops tenuipes (Epi.)	.	23	.	.	.
Macoma balthica	.	23	.	.	.
Marenzelleria viridis	545	159	.	.	.
Melitanitida (Epi.)	68	45	.	.	.
Musculium spp.	.	.	45	.	68
Mytilopsis leucophaeata (Epi.)	23	.	.	.	.
Neanthes succinea	91	.	.	.	.
Polydora cornuta	68	45	.	.	.
Rangia cuneata	295	23	.	.	.
Streblospio benedicti	454	1022	.	.	.
Tubificidae imm w cap chaetae	.	.	.	91	91
Tubificidae imm w/o cap chaetae	.	114	.	.	.
Tubificidae imm w/o cap chaetae *	.	.	364	1545	45
Tubificoides spp.	1340	1704	.	.	.
Total Abundance w/ Epi fauna	4862	3522	1500	2636	1227
Total Abundance w/o Epi fauna	4726	3453	1477	2636	1227
Number of Taxa w/ Epi fauna	17	13	6	6	7
Number of Taxa w/o Epi fauna	14	11	5	6	7

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-76

BENTHIC BIOMASS (Grams per sq. meter)					
Site	11117	11120	11121	11122	11123
Ameroculodes species complex	0.0011	.	.	.	.
Branchiura sowerbyi	.	.	.	0.0477	.
Carinoma tremaphoros	0.0011	0.0011	.	.	.
Chaoborus punctipennis	.	.	0.0159	0.0023	0.0091
Chironomidae	.	.	.	.	0.0011
Coelotanypus spp.	.	0.0068	0.0204	0.0682	0.0341
Cyathura polita	0.0477	0.0386	.	.	.
Edotea triloba (Epi.)	0.0023	.	.	.	.
Eteone heteropoda	0.0045	.	.	.	.
Gammarus spp. (Epi.)	.	.	0.0011	.	.
Heteromastus filiformis	0.0295	.	.	.	.
Hobsonia florida	0.0295	.	.	.	.
Laeonereis culveri	0.0364	.	.	.	.
Leptocheirus plumulosus	0.0364	0.0068	0.0011	.	.
Littoridinops tenuipes (Epi.)	.	0.0045	.	.	.
Macoma balthica	.	0.0250	.	.	.
Marenzelleria viridis	0.5453	0.1727	.	.	.
Melitanitida (Epi.)	0.0045	0.0023	.	.	.
Musculium spp.	.	.	0.0011	.	0.0091
Mytilopsis leucophaea (Epi.)	0.0011	.	.	.	.
Neanthes succinea	0.1454	.	.	.	.
Oligochaeta	.	0.0011	0.3999	0.1181	0.0136
Polydora cornuta	0.0045	0.0011	.	.	.
Rangia cuneata	16.1948	7.9838	.	.	.
Streblospio benedicti	0.0159	0.0295	.	.	.
Tubificoides spp.	0.0136	0.0091	.	.	.
Total Biomass	17.1138	8.2826	0.4396	0.2363	0.0670
Total Biomass w/o Epi fauna	17.1059	8.2758	0.4385	0.2363	0.0670

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11124	11125
Watershed	Potomac R	Potomac R
Habitat	Freshwater	Freshwater
Date	09/20/04	09/20/04
Gear	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	3.6	14.8
Salinity (ppt)	0.12	0.07
Temperature (C)	20.11	18.21
Dissolved Oxygen (mg/L)	7.3	9.1
Sediment Silt-Clay (%)	48.34	77.96
Total Carbon (%)	3.26	3.50
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	4.00	3.00
Condition	Meets Goal	Meets Goal
# Attributes Scored	4	4
	Value Score	Value Score
Shannon-Wiener Index	2.42	1.87
Abundance (#/m2)	3885	5339
Deep Deposit Feeder Abundance (%)	67.84	78.30
T.F. Poll. Ind. Spp. Abund. (%)	63.16	70.64
Tolerance Score	9.03	9.06
Limnodrilus Abundance (%)	63.16	70.64
Carnivore-Omnivore Abundance (%)	11.70	8.51

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-78

BENTHIC ABUNDANCE (per sq. meter)			
Site	11124	11125	
Amnicolaimosa (Epi.)	23	.	.
Branchiura sowerbyi	91	.	.
Chaoborus punctipennis	.	23	.
Chironomus almyra	23	.	.
Coelotanytus spp.	295	273	.
Corbicula fluminea	250	704	.
Cryptochironomus spp.	114	136	.
Gammarus daiberi (Epi.)	250	523	.
Goniobasis virginea (Epi.)	23	.	.
Hirudinea (Epi.)	.	23	.
Ilyodrilus templetoni	.	45	.
Ischaetides freyi	45	.	.
Leptocheirus plumulosus	23	.	.
Limnodrilus hoffmeisteri	409	409	.
Marenzelleria viridis	45	.	.
Musculium spp.	432	.	.
Pisidium spp.	45	.	.
Polypedilum halterale group	.	23	.
Qui-stadrius multisetosus	.	45	.
Stictochironomus caffarius	23	.	.
Tubificidae imm w cap chaetae	45	318	.
Tubificidae imm w/o cap chaetae *	2045	3363	.
Turbellaria (Epi.)	23	.	.
Total Abundance w/ Epi fauna	4203	5884	.
Total Abundance w/o Epi fauna	3885	5339	.
Number of Taxa w/ Epi fauna	17	11	.
Number of Taxa w/o Epi fauna	13	9	.
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11124	11125	
Amnicolaimosa (Epi.)	0.0136	.	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.				
Site	11124	11125		
Branchiura sowerbyi	0.1318	.	.	.
Chaoborus punctipennis	.	0.0011	.	.
Chironomidae	0.0091	.	.	.
Chironomidae	0.0011	0.0011	.	.
Coelotanypus spp.	0.0432	0.0341	.	.
Corbicula fluminea	21.6794	1.3337	.	.
Gammarus daiberi (Epi.)	0.0341	0.1227	.	.
Goniobasis virginica (Epi.)	1.5495	.	.	.
Hirudinea (Epi.)	.	0.0068	.	.
Leptocheirus plumulosus	0.0011	.	.	.
Marenzelleria viridis	0.1772	.	.	.
Musculium spp.	0.0432	.	.	.
Oligochaeta	0.2022	1.0769	.	.
Pisidium spp.	0.0204	.	.	.
Turbellaria (Epi.)	0.0023	.	.	.
Total Biomass	23.9083	2.5764	.	.
Total Biomass w/o Epi fauna	22.3088	2.4469	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11201	11202	11203	11204	11207
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/03/04	09/03/04	09/03/04	09/03/04	09/03/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	10.3	11.0	13.1	12.3	5.9
Salinity (ppt)	11.87	11.88	11.88	11.75	11.39
Temperature (C)	25.90	25.82	25.80	25.89	25.99
Dissolved Oxygen (mg/L)	6.7	7.8	7.8	7.3	6.8
Sediment Silt-Clay (%)	79.12	68.72	82.72	5.55	43.08
Total Carbon (%)	2.22	2.63	2.95	0.22	1.26
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	2.60	2.20	2.60	2.60
Condition	Meets Goal	Degraded	Degraded	Degraded	Degraded
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.70 5	2.12 3	2.33 3	3.26 5	2.37 3
Abundance (#/m2)	636 3	977 3	341 1	727 3	1704 5
Biomass (g/m2)	0.67 1	1.27 3	0.74 1	0.80 1	0.91 1
Pollution Indicative Spp Abund (%)	3.57 5	18.60 3	6.67 5	15.63 3	16.00 3
Pollution Indicative Spp Biom (%)	0.17	8.56	0.15	28.67	3.23
Pollution Sensitive Spp Abund (%)	10.71	9.30	20.00	15.63	5.33
Pollution Sensitive Spp Biom (%)	1.85 1	0.36 1	0.46 1	2.68 1	1.74 1
Carnivore-Omnivore Abundance (%)	42.86	60.47	80.00	46.87	54.67
Deep Deposit Feeder Abundance (%)	17.86	13.95	6.67	18.75	18.67

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11201	11202	11203	11204	11207
Acteocina canaliculata	23		23		
Carinoma tremaphoros					23
Diadumene leucolena (Epi.)	23				
Doriella obscura (Epi.)	23				
Geukensia demissa (Epi.)	23				
Glycinde solitaria	45	91	45	68	91
Heteromastus filiformis	45		23	45	227
Leitoscoloplos robustus				23	
Macoma balthica				23	
Macoma mitchelli	159	68	23	114	182
Micrura lei dyi				68	
Molgula manhattensis (Epi.)	23				
Mulinia lateralis		23		23	227
Neanthes succinea	204	500	159	204	818
Odostomia engonia (Epi.)	45			23	
Paraprierospio pinnata			23	45	23
Pectinaria gouldii	45	23		45	23
Phoronis spp.				23	
Polydora cornuta	68				
Rictaxis punctostriatus			45		
Streblospio benedicti	23	159		23	23
Tubificoides spp.	23	114		23	68
Total Abundance w/ Epi fauna	772	977	341	750	1704
Total Abundance w/o Epi fauna	636	977	341	727	1704
Number of Taxa w/ Epi fauna	14	7	7	14	10
Number of Taxa w/o Epi fauna	9	7	7	13	10

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	11201	11202	11203	11204	11207
Acteocina canalicularata	0.0011		0.0011		
Carinoma tremaphoros					0.0045
Diadumene leucolena (Epi.)	0.0114				
Doridella obscura (Epi.)	0.0011				
Geukensia demissa (Epi.)	0.0591				
Glycinde solitaria	0.0114	0.0045	0.0023	0.0011	0.0159
Heteromastus filiformis	0.0159		0.0091	0.0045	0.0454
Leitoscoloplos robustus				0.0295	
Macoma balthica				0.0182	
Macoma mitchelli	0.0045	0.0932	0.0011	0.0159	0.0727
Micrura leidyi				0.0977	
Molgula manhattensis (Epi.)	0.4135				
Mulinia lateralis		0.1068		0.1977	0.0204
Neanthes succinea	0.5453	1.0497	0.7248	0.4294	0.7429
Odostomia engonia (Epi.)	0.0045			0.0011	
Paraprierospio pinnata			0.0011	0.0023	0.0045
Pectinaria gouldii	0.0886	0.0159		0.0023	0.0011
Phoronis spp.				0.0023	
Polydora cornuta	0.0045				
Rictaxis punctostriatus			0.0045		
Streblospio benedicti	0.0011	0.0023		0.0011	0.0045
Tubificoides spp.	0.0011	0.0011		0.0023	0.0023
Total Biomass w/ Epi fauna	1.1633	1.2735	0.7441	0.8054	0.9145
Total Biomass w/o Epi fauna	0.6736	1.2735	0.7441	0.8043	0.9145

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11208	11209	11210	11211	11212
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/03/04	09/03/04	09/03/04	09/03/04	09/03/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	9.0	5.7	8.7	9.2	5.6
Salinity (ppt)	11.51	11.10	11.31	10.91	10.80
Temperature (C)	26.23	26.03	26.20	26.14	26.19
Dissolved Oxygen (mg/L)	6.1	7.5	5.8	6.0	6.4
Sediment Silt-Clay (%)	50.30	20.69	54.10	85.80	53.27
Total Carbon (%)	1.60	0.62	3.61	2.71	1.76
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.40	3.40	2.20	1.80	2.60
Condition	Meets Goal	Meets Goal	Degraded	Severely Degr.	Degraded
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.45 3	2.24 3	1.51 1	1.28 1	2.23 3
Abundance (#/m2)	1659 5	1818 5	636 3	409 1	841 3
Biomass (g/m2)	1.16 3	1.69 3	0.88 1	0.37 1	0.50 1
Pollution Indicative Spp Abund (%)	8.22 5	3.75 5	7.14 5	0.00 5	0.00 5
Pollution Indicative Spp Biom (%)	0.29	1.41	0.13	0.00	0.00
Pollution Sensitive Spp Abund (%)	4.11	12.50	3.57	0.00	5.41
Pollution Sensitive Spp Biom (%)	1.76 1	5.10 1	0.13 1	0.00 1	15.14 1
Carnivore-Omnivore Abundance (%)	50.68	62.50	82.14	72.22	59.46
Deep Deposit Feeder Abundance (%)	36.99	21.25	0.00	5.56	16.22

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11208	11209	11210	11211	11212
<i>Carinoma tremaphoros</i>	23	23	45		68
<i>Edotea triloba</i> (Epi.)	23	45			
<i>Edwardsia elegans</i>	23				
<i>Gemma gemma</i>	23				
<i>Glycynde solitaria</i>	68	204	23		
<i>Heteromastus filiformis</i>	91	273			45
<i>Leptocheirus plumulosus</i>	23			45	91
<i>Leucon americanus</i>	23		23		
<i>Macoma balthica</i>		23			45
<i>Macoma mitchelli</i>	23	204	45	45	68
<i>Mulinia lateralis</i>	91	45	45		
<i>Neanthes succinea</i>	727	909	454	295	432
<i>Pectinaria gouldii</i>	23				
<i>Streblospio benedicti</i>	23	23			
<i>Tubificidae</i> imm w/o cap chaetae	23				
<i>Tubificoides</i> spp.	477	114		23	91
Total Abundance w/ Epi fauna	1681	1863	636	409	841
Total Abundance w/o Epi fauna	1659	1818	636	409	841
Number of Taxa w/ Epi fauna	15	10	6	4	7
Number of Taxa w/o Epi fauna	14	9	6	4	7
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11208	11209	11210	11211	11212
<i>Carinoma tremaphoros</i>	0.0227	0.0159	0.1727		0.0682
<i>Edotea triloba</i> (Epi.)	0.0011	0.0023			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11208	11209	11210	11211	11212
Edwardsia elegans	0.0023				
Gemma gemma	0.0011				
Glycynde solitaria	0.0204	0.0295	0.0011		
Heteromastus filiformis	0.0068	0.0409			0.0091
Leptocheirus plumulosus	0.0227			0.0204	0.0045
Leucon americanus	0.0011		0.0011		
Macoma balthica		0.0568			0.0750
Macoma mitchelli	0.0454	0.2499	0.1272	0.0682	0.0091
Mulinia lateralis	0.0023	0.0227	0.0011		
Neanthes succinea	1.0224	1.2723	0.5725	0.2795	0.3272
Oligochaeta	0.0011				
Pectinaria gouldii	0.0114				
Streblospio benedicti	0.0011	0.0011			
Tubificoides spp.	0.0011	0.0023		0.0011	0.0023
Total Biomass w/ Epi fauna	1.1633	1.6938	0.8759	0.3692	0.4953
Total Biomass w/o Epi fauna	1.1621	1.6915	0.8759	0.3692	0.4953

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11213	11214	11215	11216	11217
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.7	4.3	2.5	3.0	2.0
Salinity (ppt)	10.43	10.03	10.19	9.50	10.24
Temperature (C)	21.92	21.75	21.40	21.55	21.65
Dissolved Oxygen (mg/L)	5.8	6.3	6.4	6.6	6.6
Sediment Silt-Clay (%)	3.68	83.55	3.13	26.77	5.46
Total Carbon (%)	0.10	2.71	0.07	0.74	0.14
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.80	3.00	2.20	2.60	3.00
Condition	Meets Goal	Meets Goal	Degraded	Degraded	Meets Goal
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.42 3	1.31 1	2.99 5	2.44 3	2.74 5
Abundance (#/m2)	1500 3	2363 5	2908 3	6521 1	3067 3
Biomass (g/m2)	5.69 5	1.20 3	0.90 1	1.31 3	1.63 3
Pollution Indicative Spp Abund (%)	12.12 3	3.85 5	21.09 1	8.36 5	17.78 3
Pollution Indicative Spp Biom (%)	1.12	0.09	6.28	1.30	31.64
Pollution Sensitive Spp Abund (%)	9.09	0.00	8.59	1.05	8.89
Pollution Sensitive Spp Biom (%)	96.58 5	0.00 1	23.24 1	16.62 1	13.28 1
Carnivore-Omnivore Abundance (%)	15.15	15.38	21.09	11.50	14.07
Deep Deposit Feeder Abundance (%)	19.70	6.73	14.06	44.95	23.70

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11213	11214	11215	11216	11217
<i>Carinoma tremaphoros</i>	114		45	45	23
<i>Cyclaspis varians</i>					23
<i>Edotea triloba</i> (Epi.)			23		68
<i>Eteone heteropoda</i>			91	23	23
Gastropoda (Epi.)			45		
Gemma gemma			45		
<i>Geukensia demissa</i> (Epi.)				45	
<i>Glycynde solitaria</i>	45		45		23
<i>Heteromastus filiformis</i>	273	45	318	409	591
<i>Hirudinea</i> (Epi.)			23		
<i>Laonereis culveri</i>			91		
<i>Leptocheirus plumulosus</i>		1727	23	1840	45
<i>Macoma balthica</i>				68	
<i>Macoma mitchelli</i>	727	23	1091	500	1068
<i>Marenzelleria viridis</i>	23		182		250
<i>Melitanitida</i> (Epi.)				91	
<i>Mulinia lateralis</i>	91		136		182
<i>Neanthes succinea</i>	68	364	318	659	364
<i>Parahesione luteola</i>				23	
<i>Rangia cuneata</i>	68		23		
<i>Rictaxis punctostriatus</i>			23		
<i>Sayella chesapeakea</i> (Epi.)					114
<i>Streblospio benedicti</i>	68	91	386	432	341
Tubificidae imm w/o cap chaetae	23			91	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01:2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	11213	11214	11215	11216	11217
Tubificoides spp.		114	91	2431	136
Total Abundance w/ Epi fauna	1500	2363	2999	6657	3249
Total Abundance w/o Epi fauna	1500	2363	2908	6521	3067
Number of Taxa w/ Epi fauna	10	6	18	13	14
Number of Taxa w/o Epi fauna	10	6	15	11	12
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11213	11214	11215	11216	11217
Carinoma tremaphoros	0.0159		0.0136	0.0159	0.0011
Cyclaspis varians					0.0045
Edotea triloba (Epi.)			0.0011		0.0023
Eteone heteropoda			0.0023	0.0011	0.0011
Gastropoda (Epi.)			0.0023		
Gemma gemma			0.0068		
Geukensia demissa (Epi.)				0.0750	
Glycynde solitaria	0.0045		0.0045		0.0011
Heteromastus filiformis	0.0886	0.0136	0.2499	0.1568	0.5044
Hirudinea (Epi.)			0.0295		
Laonereis culveri			0.2045		
Leptocheirus plumulosus		0.4658	0.0011	0.3590	0.0023
Macoma balthica				0.2181	
Macoma mitchelli	0.0204	0.0011	0.1113	0.0795	0.1636
Marenzelleria viridis	0.0091		0.2045		0.2158
Melita nitida (Epi.)				0.0091	
Mulinia lateralis	0.0613		0.0477		0.4976

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11213	11214	11215	11216	11217
Neanthes succinea	0.0045	0.7180	0.0477	0.4430	0.2227
Oligochaeta	0.0011			0.0011	
Parahesioneluteola				0.0011	
Rangiacuneata	5.4801		0.0011		
Rictaxis punctostriatus			0.0011		
Sayella chesapeakea (Epi.)					0.0091
Streblospio benedicti	0.0023	0.0011	0.0068	0.0159	0.0182
Tubificoides spp.		0.0011	0.0011	0.0204	0.0011
Total Biomass w/ Epi fauna	5.6880	1.2008	0.9372	1.3961	1.6449
Total Biomass w/o Epi fauna	5.6880	1.2008	0.9043	1.3121	1.6336

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11218	11219	11220	11221	11222					
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R					
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline					
Date	09/20/04	09/20/04	09/20/04	09/28/04	09/28/04					
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab					
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044					
BOTTOM ENVIRONMENT										
Depth (m)	4.2	1.0	2.4	6.0	1.5					
Salinity (ppt)	10.28	8.27	8.69	9.17	7.24					
Temperature (C)	21.91	20.46	21.61	22.93	24.01					
Dissolved Oxygen (mg/L)	5.7	7.3	7.0	6.6	7.1					
Sediment Silt-Clay (%)	38.95	94.13	70.09	79.95	88.07					
Total Carbon (%)	2.32	2.50	2.16	2.86	3.13					
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	2.60		3.80		4.60		2.60		2.60	
Condition	Degraded		Meets Goal		Meets Goal		Degraded		Degraded	
# Attributes Scored	5		5		5		5		5	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	1.99	3	2.39	3	3.02	5	1.41	1	1.66	1
Abundance (#/m2)	8611	1	1318	3	1908	5	8361	1	3794	3
Biomass (g/m2)	1.51	3	1.96	3	1.49	3	2.18	3	4.05	3
Pollution Indicative Spp Abund (%)	15.83	3	1.72	5	8.33	5	4.62	5	45.51	1
Pollution Indicative Spp Biom (%)	1.35		0.06		0.15		0.83		2.19	
Pollution Sensitive Spp Abund (%)	1.06		36.21		22.62		2.17		2.40	
Pollution Sensitive Spp Biom (%)	44.85	3	90.91	5	80.43	5	61.31	3	94.98	5
Carnivore-Omnivore Abundance (%)	13.19		34.48		23.81		3.53		11.98	
Deep Deposit Feeder Abundance (%)	72.56		43.10		39.29		68.75		50.30	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	11218	11219	11220	11221	11222
Carinoma tremaphoros		68	136	68	23
Coelotanypus spp.					409
Cyathura polita		341	273		23
Diadumene leucolena (Epi.)	182				
Edotea triloba (Epi.)				23	
Eteone heteropoda	23		23	23	
Glycinde solitaria	68				
Heteromastus filiformis	591	23	227	23	
Leptocheirus plumulosus	23	91	386	1772	23
Macoma balthica	23	136	159	159	
Macoma mitchelli	273	45	114		23
Melita nitida (Epi.)	23	45	23	227	23
Neanthes succinea	1000	45	23	204	
Podarkeopsis levi fuscina	45				
Polydora cornuta	45				
Rangia cuneata				23	68
Streblospio benedicti	863	23	45	364	1318
Tubificidae imm w/o cap chaetae	477		91		
Tubificoides spp.	5180	545	432	5725	1908
Total Abundance w/ Epi fauna	8815	1363	1931	8611	3817
Total Abundance w/o Epi fauna	8611	1318	1908	8361	3794
Number of Taxa w/ Epi fauna	14	10	12	11	9
Number of Taxa w/o Epi fauna	12	9	11	9	8

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	11218	11219	11220	11221	11222
Carinoma tremaphoros		0.0295	0.0227	0.0477	0.0011
Coelotanypus spp.					0.0523
Cyathura polita		0.6066	0.1636		0.0295
Diadumene leucolena (Epi.)	0.2272				
Edotea triloba (Epi.)				0.0023	
Eteone heteropoda	0.0023		0.0011	0.0114	
Glycinde solitaria	0.0023				
Heteromastus filiformis	0.0750	0.0432	0.0954	0.0204	
Leptocheirus plumulosus	0.0023	0.0182	0.0659	0.3408	0.0068
Macoma balthica	0.6748	1.1769	1.0360	1.1224	
Macoma mitchelli	0.0954	0.0772	0.0886		0.0932
Melita nitida (Epi.)	0.0011	0.0011	0.0023	0.0136	0.0011
Neanthes succinea	0.5635	0.0045	0.0091	0.3612	
Oligochaeta	0.0102		0.0011		
Podarkeopsis levi fuscina	0.0045				
Polydora cornuta	0.0068				
Rangia cuneata				0.2136	3.8170
Streblospio benedicti	0.0182	0.0011	0.0011	0.0068	0.0364
Tubificoides spp.	0.0545	0.0045	0.0068	0.0545	0.0136
Total Biomass w/ Epi fauna	1.7381	1.9630	1.4938	2.1948	4.0510
Total Biomass w/o Epi fauna	1.5097	1.9619	1.4916	2.1788	4.0498

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11206	11226
Watershed	Patuxent R	Patuxent R
Habitat	Oligohaline	Oligohaline
Date	09/14/04	09/14/04
Gear	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	4.9	3.7
Salinity (ppt)	0.90	0.90
Temperature (C)	25.64	25.32
Dissolved Oxygen (mg/L)	5.2	5.0
Sediment Silt-Clay (%)	86.71	95.51
Total Carbon (%)	2.56	3.46
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	2.50	2.00
Condition	Degraded	Severely Degr.
# Attributes Scored	4	4
	Value Score	Value Score
Shannon-Wiener Index	2.47 .	1.03 .
Abundance (#/m2)	1113 5	1500 5
Deep Deposit Feeder Abundance (%)	44.90 .	12.12 .
Oligo. Poll. Ind. Spp. Abund. (%)	85.71 3	96.97 1
Tolerance Score	0.00 .	0.00 .
Oligo. Poll. Sens. Spp. Abund. (%)	0.00 1	0.00 1
Tany./Chir. Abund. Ratio	0.00 .	0.00 .
Carnivore-Omnivore Abundance (%)	10.20 1	3.03 1
Deep Deposit Feeder Abundance (%)	44.90 .	12.12 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

C-94

BENTHIC ABUNDANCE (per sq. meter)			
Site	11206	11226	
Carinoma tremaphoros	23	.	.
Heteromastus filiformis	23	23	.
Leitoscoloplos robustus	182	68	.
Leptocheirus plumosus	23	.	.
Macoma balthica	.	23	.
Macoma tchelli	136	.	.
Micrura lei dyi	.	23	.
Neanthes succinea	91	23	.
Streblospio benedicti	341	1250	.
Tubificoides spp.	295	91	.
Total Abundance w/ Epi fauna	1113	1500	.
Total Abundance w/o Epi fauna	1113	1500	.
Number of Taxa w/ Epi fauna	8	7	.
Number of Taxa w/o Epi fauna	8	7	.
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11206	11226	
Carinoma tremaphoros	0.0477	.	.
Heteromastus filiformis	0.0318	0.0182	.
Leitoscoloplos robustus	2.2856	0.7270	.
Leptocheirus plumosus	0.0011	.	.
Macoma balthica	.	0.0954	.
Macoma tchelli	0.1318	.	.
Micrura lei dyi	.	0.0091	.
Neanthes succinea	0.4817	0.0011	.
Streblospio benedicti	0.0068	0.0636	.
Tubificoides spp.	0.0045	0.0011	.
Total Biomass	2.9911	0.9156	.
Total Biomass w/o Epi fauna	2.9911	0.9156	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11223	11224	11225
Watershed	Patuxent R	Patuxent R	Patuxent R
Habitat	Freshwater	Freshwater	Freshwater
Date	09/28/04	09/28/04	09/28/04
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	5.1	1.0	1.0
Salinity (ppt)	0.24	0.17	0.18
Temperature (C)	21.72	21.39	21.51
Dissolved Oxygen (mg/L)	6.3	6.5	6.6
Sediment Silt-Clay (%)	87.16	80.10	83.49
Total Carbon (%)	4.32	2.87	3.44
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	2.00	2.50	3.50
Condition	Severely Degr.	Degraded	Meets Goal
# Attributes Scored	4	4	4
	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.87 .	2.20 .	1.86 .
Abundance (#/m2)	4794 3	4044 3	3840 5
Deep Deposit Feeder Abundance (%)	97.16 1	92.70 3	90.53 3
T.F. Poll. Ind. Spp. Abund. (%)	61.61 3	56.18 3	72.19 3
Tolerance Score	9.55 1	9.41 1	9.27 3
Limnodrilus Abundance (%)	61.61 .	56.18 .	72.19 .
Carnivore-Omnivore Abundance (%)	2.37 .	4.49 .	9.47 .

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)			
Site	11223	11224	11225
Aulodrilus limnobi us	45	.	91
Aulodrilus pigueti	45	.	.
Aulodrilus pluri seta	.	227	45
Branchiura sowerbyi	.	114	45
Chaoborus punctipennis	.	.	23
Chiridotea almyra	23	.	.
Cladopelma spp.	.	.	23
Coelotanypus spp.	45	91	250
Coenagrionidae (Epi.)	.	23	.
Cricotopus bicinctus	.	23	.
Cryptochironomus spp.	.	23	45
Deronivea	.	45	.
Dero spp.	.	.	45
Dicrotendipes spp.	.	23	.
Dugesia tigrina (Epi.)	.	159	45
Enchytraeidae	45	.	.
Gammarus spp. (Epi.)	.	182	.
Gyraulid spp. (Epi.)	.	23	.
Harnischia spp.	.	23	.
Limnodrilus templetoni	227	227	.
Limnodrilus hoffmeisteri	136	91	136
Marenzelleria viridis	23	.	.
Musculium spp.	.	114	.
Neanthes succinea	23	.	.
Pristinella jenkiniae	45	.	250
Procladius spp.	23	.	.
Quistadrilus multisetosus	45	.	.
Tanypus neopunctipennis	.	.	23
Tubificidae imm w cap chaetae *	1227	863	227
Tubificidae imm w/o cap chaetae *	2817	2181	2636

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.			
Site	11223	11224	11225
Tubi fi coi des spp.	23	.	.
Total Abundance w/ Epi fauna	4794	4430	3885
Total Abundance w/o Epi fauna	4794	4044	3840
Number of Taxa w/ Epi fauna	13	15	12
Number of Taxa w/o Epi fauna	13	11	11
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11223	11224	11225
Branchiura sowerbyi	.	0.1590	0.0841
Chaoborus punctipennis	.	.	0.0011
Chiridotea almyra	0.0023	.	.
Chironomidae	0.0011	0.0011	0.0011
Coelotanytus spp.	0.0091	0.0159	0.0318
Coenagrionidae (Epi.)	.	0.0011	.
Dugesia tigrina (Epi.)	.	0.0045	0.0023
Gammarus spp. (Epi.)	.	0.0023	.
Gyraulid spp. (Epi.)	.	0.0023	.
Marenzelleria viridis	0.0386	.	.
Musculium spp.	.	0.0068	.
Neanthes succinea	0.0045	.	.
Oligochaeta	0.4567	0.2567	0.4862
Tubi fi coi des spp.	0.0011	.	.
Total Biomass	0.5135	0.4499	0.6066
Total Biomass w/o Epi fauna	0.5135	0.4396	0.6044

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11601	11602	11603	11604	11605
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	Low Mesohaline	High Meso Mud	Low Mesohaline	Low Mesohaline	High Meso Mud
Date	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	8.2	12.5	8.3	8.3	8.5
Salinity (ppt)	7.25	13.05	9.15	11.46	12.08
Temperature (C)	25.60	24.53	24.99	24.69	24.68
Dissolved Oxygen (mg/L)	5.6	0.7	2.7	1.2	1.0
Sediment Silt-Clay (%)	50.79	97.22	24.20	97.53	91.14
Total Carbon (%)	1.44	3.52	0.46	3.42	3.28
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.80	2.00	1.00	1.40	1.67
Condition	Severely Degr.	Severely Degr.	Severely Degr.	Severely Degr.	Severely Degr.
# Attributes Scored	5	6	5	5	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.05 3	1.58 1	1.23 1	2.24 3	1.37 1
Abundance (#/m2)	13359 1	1295 3	341 1	159 1	795 1
Biomass (g/m2)	1.36 3	0.06 1	0.06 1	0.02 1	0.07 1
Pollution Indicative Spp Abund (%)	64.97 1	31.58 1	33.33 1	28.57 1	22.86 1
Pollution Indicative Spp Biom (%)	9.52 1	20.75 3	2.00 1	5.56 1	10.00 3
Pollution Sensitive Spp Abund (%)	0.68 1	0.00 1	0.00 1	0.00 1	0.00 1
Pollution Sensitive Spp Biom (%)	30.49 1	0.00 1	0.00 1	0.00 1	0.00 1
Carnivore-Omnivore Abundance (%)	12.76 1	21.05 3	60.00 1	28.57 1	17.14 3
Deep Deposit Feeder Abundance (%)	16.33 1	49.12 3	0.00 1	14.29 1	60.00 3

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11601	11602	11603	11604	11605
Ameroculodes species complex	23				
Carinoma tremaphoros	91				
Cyathura polita	23				
Edotea triloba (Epi.)	23				
Edwardsia elegans	341				
Eteone heteropoda	500	23			
Heteromastus filiformis	477				
Leptocheirus plumulosus	295		23	23	
Macoma balthica	68				
Macoma mitchelli	886			23	
Neanthes succinea	750	250	204	45	136
Polydora cornuta	23				
Streblospio benedicti	8179	386	114	45	182
Tubificoides spp.	1704	636		23	477
Total Abundance w/ Epi fauna	13382	1295	341	159	795
Total Abundance w/o Epi fauna	13359	1295	341	159	795
Number of Taxa w/ Epi fauna	14	4	3	5	3
Number of Taxa w/o Epi fauna	13	4	3	5	3
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11601	11602	11603	11604	11605
Ameroculodes species complex	0.0011				
Carinoma tremaphoros	0.0091				
Cyathura polita	0.0011				
Edotea triloba (Epi.)	0.0136				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11601	11602	11603	11604	11605
Edwardsia elegans	0.0114				
Eteone heteropoda	0.0250	0.0011			
Heteromastus filiformis	0.0636				
Leptocheirus plumulosus	0.0386		0.0011	0.0011	
Macoma balthica	0.4135				
Macoma mitchelli	0.2636			0.0023	
Neanthes succinea	0.4090	0.0273	0.0545	0.0136	0.0477
Polydora cornuta	0.0011				
Streblospio benedicti	0.1045	0.0114	0.0011	0.0011	0.0068
Tubificoides spp.	0.0182	0.0204		0.0023	0.0136
Total Biomass w/ Epi fauna	1.3734	0.0602	0.0568	0.0204	0.0682
Total Biomass w/o Epi fauna	1.3598	0.0602	0.0568	0.0204	0.0682

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11606	11607	11608	11610	11611
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	8.4	9.1	7.9	3.0	8.5
Salinity (ppt)	10.22	11.71	9.67	5.88	7.40
Temperature (C)	24.86	24.65	24.87	25.35	25.13
Dissolved Oxygen (mg/L)	2.1	1.1	2.2	4.8	3.6
Sediment Silt-Clay (%)	97.01	98.84	99.01	9.91	97.93
Total Carbon (%)	2.87	3.51	3.66	0.20	3.83
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.80	1.40	3.00	3.00	3.40
Condition	Severely Degr.	Severely Degr.	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	5	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.55 1	1.51 1	2.20 3	2.31 3	2.84 5
Abundance (#/m2)	1931 5	613 3	1022 3	6612 1	932 3
Biomass (g/m2)	0.26 1	0.06 1	2.87 3	3.28 3	1.14 3
Pollution Indicative Spp Abund (%)	57.65 1	62.96 1	20.00 3	5.15 5	21.95 1
Pollution Indicative Spp Biom (%)	43.78	22.22	13.91	0.28	1.99
Pollution Sensitive Spp Abund (%)	0.00	0.00	22.22	36.08	12.20
Pollution Sensitive Spp Biom (%)	0.00	0.00	75.23 3	62.51 3	88.18 5
Carnivore-Omnivore Abundance (%)	10.59	18.52	8.89	8.59	31.71
Deep Deposit Feeder Abundance (%)	32.94	22.22	60.00	4.81	31.71

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11606	11607	11608	11610	11611
Cyathura polita				364	
Edotea triloba (Epi.)				136	
Edwardsia elegans				136	
Eteone heteropoda	23	23		68	68
Geukensia demissa (Epi.)	23				
Heteromastus filiformis			23	318	45
Leitoscoloplos robustus	23		136		
Leitoscoloplos spp.					23
Leptocheirus plumulosus				568	45
Macoma balthica			227		114
Macoma mitchelli	23		23	2863	68
Marenzelleria viridis				1818	
Neanthes succinea	182	91	91		227
Rangia cuneata				204	
Streblospio benedicti	1068	364	68	273	114
Tubificoides spp.	613	136	454		227
Total Abundance w/ Epi fauna	1954	613	1022	6748	932
Total Abundance w/o Epi fauna	1931	613	1022	6612	932
Number of Taxa w/ Epi fauna	7	4	7	10	9
Number of Taxa w/o Epi fauna	6	4	7	9	9
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11606	11607	11608	11610	11611
Cyathura polita				0.1250	
Edotea triloba (Epi.)				0.0045	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11606	11607	11608	11610	11611
Edwardsia elegans				0.0273	
Eteone heteropoda	0.0023	0.0023		0.0045	0.0011
Geukensia demissa (Epi.)	0.0136				
Heteromastus filiformis			0.0136	0.1454	0.0182
Leitoscoloplos robustus	0.0477		0.3976		
Leitoscoloplos spp.					0.0204
Leptocheirus plumulosus				0.0341	0.0045
Macoma balthica			2.1561		1.0088
Macoma mitchelli	0.0011		0.1431	1.0133	0.0136
Marenzelleria viridis				0.5067	
Neanthes succinea	0.1318	0.0454	0.1454		0.0750
Rangia cuneata				1.4177	
Streblospio benedicti	0.0659	0.0114	0.0011	0.0045	0.0011
Tubificoides spp.	0.0159	0.0023	0.0091		0.0011
Total Biomass w/ Epi fauna	0.2783	0.0613	2.8661	3.2830	1.1440
Total Biomass w/o Epi fauna	0.2647	0.0613	2.8661	3.2785	1.1440

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	11612	11618	11627
Watershed	Upper Bay	Upper Bay	Upper Bay
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/01/04	09/01/04	09/01/04
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	5.5	6.5	7.4
Salinity (ppt)	6.69	5.21	9.56
Temperature (C)	25.18	25.23	25.03
Dissolved Oxygen (mg/L)	3.5	4.5	3.2
Sediment Silt-Clay (%)	7.41	86.45	2.75
Total Carbon (%)	0.22	6.87	0.15
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	3.40	4.20	2.60
Condition	Meets Goal	Meets Goal	Degraded
# Attributes Scored	5	5	5
	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.38 3	2.57 5	2.25 3
Abundance (#/m2)	1772 5	1545 5	3113 3
Biomass (g/m2)	1.36 3	1.61 3	0.92 1
Pollution Indicative Spp Abund (%)	0.00 5	4.41 5	8.03 5
Pollution Indicative Spp Biom (%)	0.00	0.21	0.25
Pollution Sensitive Spp Abund (%)	60.26	55.88	2.92
Pollution Sensitive Spp Biom (%)	17.07 1	63.83 3	8.42 1
Carnivore-Omnivore Abundance (%)	30.77	36.76	63.50
Deep Deposit Feeder Abundance (%)	3.85	27.94	11.68

Continued . . .

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

Site	BENTHIC ABUNDANCE (per sq. meter)		
	11612	11618	11627
Ameroculodes species complex	23		
Apocorophium lacustre (Epi.)		91	
Carinoma tremaphoros			45
Chiridotea almyra	204		
Coelotanypus spp.		45	
Cyathura polita	341	432	
Edotea triloba (Epi.)	23	23	
Edwardsia elegans			45
Eteone heteropoda			91
Gammarus daiberi (Epi.)		114	
Heteromastus filiformis	23		295
Hobsonia florida		23	
Leptocheirus plumulosus	386		
Macoma balthica		23	
Macoma mitchelli	23	45	523
Marenzelleria viridis	659	386	91
Melita nitida (Epi.)		23	
Micrura leidy			182
Mytilopsis leucophaeata (Epi.)			23
Neanthes succinea		45	1613
Polydora cornuta		23	
Procladius spp.		45	
Rangia cuneata	68	23	
Rhithropanopeus harrisi (Epi.)		45	
Streblospio benedicti		23	159

Continued . . .

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01:2004/2005) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.			
Site	11612	11618	11627
Tubi ficoides spp.	45	432	68
Total Abundance w/ Epi fauna	1795	1840	3135
Total Abundance w/o Epi fauna	1772	1545	3113
Number of Taxa w/ Epi fauna	10	17	11
Number of Taxa w/o Epi fauna	9	12	10
BENTHIC BIOMASS (Grams per sq. meter)			
Site	11612	11618	11627
Ameroculodes species complex	0.0011		
Apocorophium lacustre (Epi.)		0.0011	
Carinoma tremaphoros			0.0136
Chiridotea almyra	0.0295		
Chironomidae		0.0011	
Coelotanypus spp.		0.0023	
Cyathura polita	0.0727	0.0863	
Edotea triloba (Epi.)	0.0011	0.0011	
Edwardsia elegans			0.0011
Eteone heteropoda			0.0011
Gammarus daiberi (Epi.)		0.0613	
Heteromastus filiformis	0.0011		0.1045
Hobsonia florida		0.0011	
Leptocheirus plumulosus	0.0386		
Macoma balthica		0.7157	
Macoma mitchelli	0.0023	0.0011	0.0477
Marenzelleria viridis	0.1590	0.2272	0.0772

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01: 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.				
Site	11612	11618	11627	
Melita nitida (Epi.)		0.0011		
Micrura leidyi			0.2885	
Mytilopsis leucophaeata (Epi.)			0.0011	
Neanthes succinea		0.5748	0.3817	
Polydora cornuta		0.0011		
Rangia cuneata	0.0011	0.0011		
Rhithropanopeus harrisi (Epi.)		0.0295		
Streblospio benedicti		0.0011	0.0011	
Tubificoides spp.	1.0588	0.0011	0.0011	
Total Biomass w/ Epi fauna	1.3655	1.7085	0.9190	
Total Biomass w/o Epi fauna	1.3643	1.6143	0.9179	

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11613	11614	11616	11619	11626
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/02/04	09/01/04	09/24/04	09/01/04	09/02/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	5.0	3.6	3.0	7.8	5.7
Salinity (ppt)	4.39	2.00	0.53	2.80	3.99
Temperature (C)	25.82	25.90	20.35	25.32	25.84
Dissolved Oxygen (mg/L)	4.6	6.7	7.3	6.0	7.2
Sediment Silt-Clay (%)	88.70	8.64	96.24	96.09	68.06
Total Carbon (%)	3.23	0.18	3.19	4.86	2.55
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.80	3.80	3.33	4.00	3.00
Condition	Meets Goal	Meets Goal	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	5	6	6	4
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	3.00	2.98	2.10	2.00	1.35
Abundance (#/m2)	1977	1568	795	1727	2772
Deep Deposit Feeder Abundance (%)	21.84	20.29	0.00	10.53	0.00
Oligo. Poll. Ind. Spp. Abund. (%)	44.83	72.46	22.86	15.79	87.70
Tolerance Score	6.00	6.00	6.06	6.04	0.00
Oligo. Poll. Sens. Spp. Abund. (%)	8.05	7.25	20.00	21.05	0.00
Tany./Chir. Abund. Ratio	0.00	0.00	100.00	50.00	0.00
Carnivore-Omnivore Abundance (%)	21.84	15.94	31.43	59.21	22.13
Deep Deposit Feeder Abundance (%)	21.84	20.29	0.00	10.53	0.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)					
Site	11613	11614	11616	11619	11626
Boccardiella ligeri ca	.	.	.	23	.
Carinoma tremaphoros	23	45	.	.	.
Coelotanypus spp.	.	.	159	23	.
Cyathura polita	386	.	91	954	.
Edotea triloba (Epi.)	45	91	.	23	23
Eteone heteropoda	.	68	.	.	23
Gammarus dai beri (Epi.)	.	.	.	68	.
Gastropoda (Epi.)	.	68	.	.	.
Heteromastus filiformis	68	273	.	.	.
Hobsonia florida	.	.	.	23	.
Leptocheirus plumulosus	114	250	.	.	1818
Macoma balthica	295	.	.	.	318
Macoma mitchelli	23	227	23	.	23
Marenzelleria viridis	159	114	159	364	.
Melita nitida (Epi.)	.	.	.	204	182
Mytilopsis leucophaeata (Epi.)	45	.	.	68	.
Neanthes succinea	23	136	.	23	591
Polydora cornuta	.	.	.	23	.
Polypedilum halterale group	.	.	.	23	.
Rangia cuneata	204	45	341	91	.
Rhithropanopeus harrisi (Epi.)	.	.	.	45	.
Streblospio benedicti	318	364	23	.	.
Tubificoides spp.	364	45	.	182	.
Total Abundance w/ Epi fauna	2068	1727	795	2136	2976
Total Abundance w/o Epi fauna	1977	1568	795	1727	2772
Number of Taxa w/ Epi fauna	13	12	6	15	7
Number of Taxa w/o Epi fauna	11	10	6	10	5
BENTHIC BIOMASS (Grams per sq. meter)					
Site	11613	11614	11616	11619	11626
Boccardiella ligeri ca	.	.	.	0.0011	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.

Site	11613	11614	11616	11619	11626
Carinoma tremaphoros	0.0227	0.0114	.	.	.
Chironomidae	.	.	.	0.0011	.
Coelotanypus spp.	.	.	0.0204	0.0011	.
Cyathura polita	0.4271	.	0.1954	0.5271	.
Edotea triloba (Epi.)	0.0023	0.0091	.	0.0011	0.0011
Eteone heteropoda	.	0.0273	.	.	0.0068
Gammarus daiberi (Epi.)	.	.	.	0.0341	.
Gastropoda (Epi.)	.	0.0011	.	.	.
Heteromastus filiformis	0.0227	0.0409	.	.	.
Hobsonia florida	.	.	.	0.0011	.
Leptocheirus plumulosus	0.0295	0.0182	.	.	0.3340
Macoma balthica	5.9117	.	.	.	4.1214
Macoma mitchelli	0.1250	0.0477	0.0545	.	0.0091
Marenzelleria viridis	0.2522	0.0772	0.8475	0.2681	.
Melita nitida (Epi.)	.	.	.	0.0182	0.0204
Mytilopsis leucophaeata (Epi.)	0.0591	.	.	0.0227	.
Neanthes succinea	0.3204	0.0909	.	0.0045	0.1681
Polydora cornuta	.	.	.	0.0023	.
Rangia cuneata	46.3738	0.0011	5.3278	1.8403	.
Rhithropanopeus harrisi (Epi.)	.	.	.	0.3749	.
Streblospio benedicti	0.0114	0.0023	0.0023	.	.
Tubificoides spp.	0.0045	0.0045	.	0.0011	.
Total Biomass	53.5624	0.3317	6.4479	3.0990	4.6610
Total Biomass w/o Epi fauna	53.5011	0.3215	6.4479	2.6480	4.6394

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11628	
Watershed	Upper Bay	
Habitat	Oligohaline	
Date	09/01/04	
Gear	Young Grab	
Sampled Area (sq. m)	0.044	
BOTTOM ENVIRONMENT		
Depth (m)	5.2	
Salinity (ppt)	.	
Temperature (C)	.	
Dissolved Oxygen (mg/L)	.	
Sediment Silt-Clay (%)	81.08	
Total Carbon (%)	3.95	
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	3.67	
Condition	Meets Goal	
# Attributes Scored	6	
	Value	Score
Shannon-Wiener Index	2.40	.
Abundance (#/m2)	2136	5
Deep Deposit Feeder Abundance (%)	6.38	.
Oligo. Poll. Ind. Spp. Abund. (%)	11.70	5
Tolerance Score	6.01	3
Oligo. Poll. Sens. Spp. Abund. (%)	10.64	3
Tany./Chir. Abund. Ratio	100.00	1
Carnivore-Omnivore Abundance (%)	47.87	5
Deep Deposit Feeder Abundance (%)	6.38	.

Continued . . .

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)	
Site	11628
Apocorophium lacustre (Epi.)	23
Carinoma tremaphoros	68
Coelotanypus spp.	23
Cyathura polita	932
Edotea triloba (Epi.)	45
Heteromastus filiformis	68
Leptocheirus plumulosus	91
Littoridinops tenuipes (Epi.)	45
Macoma balthica	204
Marenzelleria viridis	227
Rangia cuneata	454
Tubificoides spp.	68
Total Abundance w/ Epi fauna	2249
Total Abundance w/o Epi fauna	2136
Number of Taxa w/ Epi fauna	12
Number of Taxa w/o Epi fauna	9
BENTHIC BIOMASS (Grams per sq. meter)	
Site	11628
Apocorophium lacustre (Epi.)	0.0011
Carinoma tremaphoros	0.0386
Coelotanypus spp.	0.0011
Cyathura polita	0.6157
Edotea triloba (Epi.)	0.0011
Heteromastus filiformis	0.0068
Leptocheirus plumulosus	0.0159
Littoridinops tenuipes (Epi.)	0.0045
Macoma balthica	3.4421
Marenzelleria viridis	0.3590
Rangia cuneata	6.1889

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

		BENTHIC BIOMASS (Grams per sq. meter) - Contd.			
Site		11628			
Tubi fi coi des spp.		0.0011	.	.	.
Total Biomass		10.6761	.	.	.
Total Biomass w/o Epi fauna		10.6693	.	.	.

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11620	11621	11622	11623	11624
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	Freshwater	Freshwater	Freshwater	Freshwater	Freshwater
Date	09/01/04	09/01/04	09/01/04	09/01/04	09/17/04
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq. m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.1	13.1	3.4	4.1	4.1
Salinity (ppt)	0.13	0.13	0.11	0.11	0.08
Temperature (C)	26.13	25.54	25.48	25.37	20.36
Dissolved Oxygen (mg/L)	8.3	7.7	6.9	7.5	8.1
Sediment Silt-Clay (%)	81.18	92.33	53.34	41.16	71.99
Total Carbon (%)	2.42	4.38	5.13	3.13	3.16
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	4.00	4.50	4.00	4.00	5.00
Condition	Meets Goal	Meets Goal	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	4	4	4	4	4
	Value	Value	Value	Value	Value
Shannon-Wiener Index	0.37	1.79	0.69	2.20	1.39
Abundance (#/m2)	13518	1045	9043	6793	2181
Deep Deposit Feeder Abundance (%)	0.00	21.74	4.27	19.40	5.21
T.F. Poll. Ind. Spp. Abund. (%)	0.00	0.00	4.27	19.40	4.17
Tolerance Score	6.00	6.83	6.17	6.88	6.40
Limnodrilus Abundance (%)	0.00	0.00	4.27	19.40	4.17
Carnivore-Omnivore Abundance (%)	2.52	13.04	1.76	7.02	27.08

Continued . . .

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)						
Site	11620	11621	11622	11623	11624	
Ameroculodes species complex	23
Axarus spp.	.	.	.	.	.	500
Branchiura sowerbyi	.	.	.	.	.	23
Chaoborus punctipennis	.	23	.	.	.	.
Chironomus almyra	.	23	91	23	.	23
Coelotanytus spp.	23	23	.	204	.	.
Corbicula fluminea	.	45	159	1250	.	1477
Cryptochironomus spp.	.	.	.	45	.	.
Cyathura polita	318	45	68	91	.	68
Dugesia tigrina (Epi.)	.	.	.	114	.	.
Gammarus daiheri (Epi.)	45	.	91	159	.	.
Glycide solitaria	.	23	.	.	.	.
Hydrobiidae (Epi.)	.	.	.	45	.	.
Limnodrilus hoffmeisteri	.	.	68	182	.	23
Littoridinops tenuipes (Epi.)	.	.	68	.	.	.
Marenzelleria viridis	364	636	182	341	.	.
Musculium spp.	.	.	.	23	.	.
Nemertina	.	.	.	45	.	.
Polypedilum halterale group	.	.	.	23	.	.
Rangia cuneata	12791	.	8156	3385	.	.
Rheotanytarsus spp.	.	.	.	45	.	.
Tubificidae imm w/o cap chaetae *	.	.	318	1136	.	68
Tubificoides spp.	.	227	.	.	.	.
Total Abundance w/ Epi fauna	13564	1045	9202	7111	.	2181
Total Abundance w/o Epi fauna	13518	1045	9043	6793	.	2181
Number of Taxa w/ Epi fauna	6	8	8	15	.	6
Number of Taxa w/o Epi fauna	5	8	6	12	.	6
BENTHIC BIOMASS (Grams per sq. meter)						
Site	11620	11621	11622	11623	11624	
Ameroculodes species complex	0.0011	.	.	.	.	.

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	11620	11621	11622	11623	11624
Branchiura sowerbyi	.	.	.	.	0.0068
Chaoborus punctipennis	.	0.0023	.	.	.
Chironomidae	.	0.0011	0.0227	0.0023	0.0068
Coelotanytus spp.	0.0114	0.0011	.	0.0182	.
Corbicula fluminea	.	0.8270	1.9153	26.7846	0.2681
Cyathura polita	0.0954	0.0011	0.0182	0.0068	0.0011
Dugesia tigrina (Epi.)	.	.	.	0.0114	.
Gammarus daiberi (Epi.)	0.0011	.	0.0182	0.0227	.
Glycyde solitaria	.	0.0011	.	.	.
Hydrobiidae (Epi.)	.	.	.	0.0011	.
Littoridinops tenuipes (Epi.)	.	.	0.0045	.	.
Marenzelleria viridis	0.2317	0.3522	0.2022	0.2317	.
Musculium spp.	.	.	.	0.0011	.
Nemertina	.	.	.	0.0011	.
Oligochaeta	.	.	0.0170	0.0636	0.0011
Rangia cuneata	63.1025	.	48.4231	71.1431	.
Tubificoides spp.	.	0.0011	.	.	.
Total Biomass	63.4433	1.1871	50.6213	98.2890	1.0610
Total Biomass w/o Epi fauna	63.4422	1.1871	50.5986	98.2538	1.0610

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

Site	11625	
Watershed	Upper Bay	
Habitat	Freshwater	
Date	09/17/04	
Gear	Young Grab	
Sampled Area (sq. m)	0.044	
BOTTOM ENVIRONMENT		
Depth (m)	2.6	
Salinity (ppt)	0.10	
Temperature (C)	22.37	
Dissolved Oxygen (mg/L)	8.4	
Sediment Silt-Clay (%)	94.80	
Total Carbon (%)	4.72	
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	5.00	
Condition	Meets Goal	
# Attributes Scored	4	
	Value	Score
Shannon-Wiener Index	2.65	.
Abundance (#/m2)	2545	5
Deep Deposit Feeder Abundance (%)	58.93	5
T.F. Poll. Ind. Spp. Abund. (%)	32.14	5
Tolerance Score	7.97	5
Limnodrilus Abundance (%)	32.14	.
Carnivore-Omnivore Abundance (%)	40.18	.

Continued . . .

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2004 (CRUISE 01 : 2004/2005) BAY-WIDE RANDOM SITES

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BENTHIC ABUNDANCE (per sq. meter)	
Site	11625
Aulodrilus pigueti	364
Branchiura sowerbyi	45
Chaoborus punctipennis	454
Coelotanypus spp.	523
Corbicula fluminea	23
Hydrophilus templetoni	91
Limnodrilus hoffmeisteri	45
Polypedilum halterale group	45
Tubificidae imm w cap chaetae *	182
Tubificidae imm w/o cap chaetae *	772
Total Abundance w/ Epi fauna	2545
Total Abundance w/o Epi fauna	2545
Number of Taxa w/ Epi fauna	8
Number of Taxa w/o Epi fauna	8
BENTHIC BIOMASS (Grams per sq. meter)	
Site	11625
Branchiura sowerbyi	0.0011
Chaoborus punctipennis	0.0227
Chironomidae	0.0011
Coelotanypus spp.	0.1818
Corbicula fluminea	0.0011
Oligochaeta	0.0227
Total Biomass	0.2306
Total Biomass w/o Epi fauna	0.2306