



Mr. Matthew Raffenberg
Senior Environmental Specialist
Florida Power and Light Company
700 Universe Boulevard (JES/JB)
Juno Beach, Florida 33408

October 2, 2009

Dear Mr. Raffenberg:

Ecological Associates, Inc (EAI) was contracted by FPL to collect and analyze nearshore benthic macroinvertebrates in Biscayne Bay and Card Sound. This report provides the methods used and results of the benthic sampling program conducted on March 18, 2009.

Methods

Benthic macroinvertebrate sampling was conducted in two areas: one in Card Sound in the vicinity of the FPL Remnant Card Sound canal (Transect 1); and the other in Biscayne Bay near the Turkey Point peninsula (Transect 2). Within each sampling area, a 750-foot shore-perpendicular transect was established. Along each transect, samples were collected at points 250, 500, and 750 feet from shore (Figures 1 and 2). In the field, sample locations were determined using a handheld GPS device by taking a waypoint at the shoreline, heading offshore, and then dropping marking buoys in the water at the prescribed distances from shore. After the three stations were marked, the boat was anchored away from the sample area, and the following basic water quality data were collected: depth, water temperature, conductivity, dissolved oxygen, and salinity.

Three replicate benthic samples were collected at each station, using a diver-operated core sampler with a surface area of 225 cm. This yielded a total of 18 samples from the two transects combined. Each sample was rinsed in the field to remove fine sediment and particulate matter using a 0.5 mm mesh bucket sieve. The residue on the sieve was then transferred into a spiked sample container and filled with seawater to yield a 10% buffered formalin solution. Each container was labeled and transported back to EAI's laboratory for specimen identification.

At the laboratory the samples were rinsed over a 0.5 mm (#30) sieve to remove the formalin. All material retained by the sieve was sorted under a dissecting microscope to separate organisms from debris. The organisms were then enumerated and identified to the lowest practicable taxon.

As set forth in State criteria for Class III Marine Surface Waters, the Shannon-Weaver diversity index was used to characterize Biological Integrity at each of the six sampling

stations (three replicates combined). This index takes into account the total number of individuals in a sample and the proportion of individuals contributed by each species. Chapter 62-302 (FAC) for Surface Water Quality Standards defines the Shannon-Weaver Diversity Index as the negative summation (from $i=1$ to s) of $(n_i/N) \log_2 (n_i/N)$ where s is the number of species in a sample, N is the total number of individuals in a sample, and n_i is the total number of individuals for species i .

Results

Water quality data for both Card Sound and Biscayne Bay are presented in Table 1. The total taxa collected from all stations and transects are listed in Table 2.

Card Sound

One-hundred and twenty eight (128) taxa were identified from all samples combined for the Card Sound transect, with polychaetes and crustaceans accounting for the majority of taxa collected (Table 3). Along the Card Sound transect, a total of 1,689 individuals were collected with the highest abundance of individuals recorded at the 500 ft from shore station (Table 4). Species richness was found to increase with distance from shore, with richness being highest at the 750 ft from shore station (Table 5). As with species richness, the highest diversity (4.176) was recorded at the 750 ft from shore station (Table 5).

Biscayne Bay

One-hundred and twenty three (123) taxa were identified from all samples combined for the Biscayne Bay transect, with polychaetes and crustaceans accounting for the majority of taxa identified from Biscayne Bay (Table 3). Along the Biscayne Bay transect, a total of 969 individuals were collected with the highest abundance of individuals recorded at the 250 ft from shore station (Table 4). Species richness was found to decrease with distance from shore, with richness being highest at the 250 ft from shore station (Table 6). As with species richness, the highest diversity (4.870) was recorded from the nearshore station (Table 6). Table 7 summarizes the taxa, species richness, and diversity indices for both transect locations individually and combined.

If you have any questions regarding this report, I can be reached at (772) 334-3729.

Sincerely,



Mark S. Mohlmann
Project Manager

c: Robert Ernest/EAI
Erik Martin/EAI Scientific Director



Figure 1. Location of Transect 1 and 250', 500', and 750' Collection Points, Turkey Point Benthic Sampling, March 18, 2009.



P.O. Box 405, Jensen Beach, Florida 34958
www.ecological-associates.com



Figure 2. Location of Transect 2 and 250', 500', and 750' Collection Points, Turkey Point Benthic Sampling, March 18, 2009.



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**Table 1. Summary of Water Quality Data for
Card Sound and Biscayne,
Turkey Point Benthic Sampling, March 18, 2009**

Transect	Depth (ft)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Units)	Salinity (ppt)
Card Sound	3.0	24.8	58.1	5.00	8.13	38.7
Biscayne Bay	3.0	24.7	58.0	5.80	8.20	38.6

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Acuminodeutopus naglei</i>	Crustaceans
<i>Ampelisca abdita</i>	Crustaceans
<i>Ampelisca schellenbergi</i>	Crustaceans
<i>Ampelisca</i> spp.	Crustaceans
Amphilochidae	Crustaceans
Ampithoidae	Crustaceans
Anthuridae	Crustaceans
Aoridae	Crustaceans
Apseudidae	Crustaceans
<i>Asteropella</i> spp.	Crustaceans
<i>Bemlos spinicarpus</i>	Crustaceans
<i>Bemlos</i> spp.	Crustaceans
Bodotriidae	Crustaceans
<i>Campylaspis</i> sp.	Crustaceans
Caprellidae	Crustaceans
<i>Cerapus</i> spp.	Crustaceans
<i>Cumella</i> spp.	Crustaceans
<i>Cyclaspis</i> spp.	Crustaceans
Cylindroleberididae	Crustaceans
<i>Deutella incerta</i>	Crustaceans
<i>Dulichchiella appendiculata</i>	Crustaceans
<i>Ericthonius brasiliensis</i>	Crustaceans
<i>Ericthonius</i> sp.	Crustaceans
<i>Ericthonius</i> sp. A	Crustaceans
Euphausiacea	Crustaceans
<i>Eusarsiella disparalis</i>	Crustaceans
<i>Eusarsiella nodimarginis</i>	Crustaceans
<i>Eusarsiella spinosa</i>	Crustaceans
<i>Eusarsiella</i> spp.	Crustaceans
Eusiridae	Crustaceans
<i>Grandidierella bonnieroides</i>	Crustaceans

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
Hadziidae	Crustaceans
<i>Hornellia tequestae</i>	Crustaceans
<i>Iphimedia</i> spp.	Crustaceans
Joeropsididae	Crustaceans
<i>Kalliapseudes</i> sp.	Crustaceans
<i>Lembos</i> spp.	Crustaceans
<i>Lembos unifasciatus</i>	Crustaceans
<i>Lembos unifasciatus unifasciatus</i>	Crustaceans
<i>Leptochelia dubia</i>	Crustaceans
<i>Leptochelia forresti</i>	Crustaceans
<i>Leptochelia longimana</i>	Crustaceans
<i>Leptochelia</i> spp.	Crustaceans
Leptocheliidae	Crustaceans
<i>Limnoria</i> sp.	Crustaceans
<i>Melita</i> spp.	Crustaceans
Melitidae	Crustaceans
Myodocopida	Crustaceans
Mysida	Crustaceans
<i>Neonesidea</i> spp.	Crustaceans
<i>Oxyurostylis smithi</i>	Crustaceans
<i>Pagurus</i> spp.	Crustaceans
Palaemonidae	Crustaceans
<i>Paracerceis caudata</i>	Crustaceans
<i>Paranesidea gigacantha</i>	Crustaceans
<i>Paranthura</i> spp.	Crustaceans
Paranthuridae	Crustaceans
Paraseudidae	Crustaceans
Penaeidae	Crustaceans
<i>Peratocytheridea setipunctata</i>	Crustaceans
Phoxocephalidae	Crustaceans
Podocopida	Crustaceans

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Pseudoleptochelia</i> spp.	Crustaceans
<i>Rocinela signata</i>	Crustaceans
Sarsiellidae	Crustaceans
<i>Shoemakerella cubensis</i>	Crustaceans
<i>Synchelidium americanum</i>	Crustaceans
Tanaidacea	Crustaceans
Unidentified amphipod	Crustaceans
<i>Vaunthompsonia minor</i>	Crustaceans
<i>Xenanthura brevitelson</i>	Crustaceans
<i>Amphiodia pulchella</i>	Echinoderms
<i>Amphiodia</i> spp.	Echinoderms
<i>Amphioplus abdita</i>	Echinoderms
<i>Amphipholis squamata</i>	Echinoderms
Amphiuridae	Echinoderms
<i>Lytechinus variegatus</i>	Echinoderms
<i>Ophiophragmus filograneus</i>	Echinoderms
Ophiuroidea	Echinoderms
Actiniaria	Miscellaneous Taxa
Anthoathecatae	Miscellaneous Taxa
Ascidacea	Miscellaneous Taxa
Chironomidae	Miscellaneous Taxa
Ectoprocta	Miscellaneous Taxa
Hemichordata	Miscellaneous Taxa
Hydrozoa	Miscellaneous Taxa
<i>Myrophis punctatus</i>	Miscellaneous Taxa
Nemata	Miscellaneous Taxa
Nemertea	Miscellaneous Taxa
Oligochaeta	Miscellaneous Taxa
Porifera	Miscellaneous Taxa
Sipuncula	Miscellaneous Taxa
Sipunculidae	Miscellaneous Taxa

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Acteocina canaliculata</i>	Molluscs
<i>Brachidontes</i> spp.	Molluscs
<i>Caecum floridanum</i>	Molluscs
<i>Caecum nitidum</i>	Molluscs
<i>Caecum pulchellum</i>	Molluscs
<i>Caecum</i> sp. A	Molluscs
Carditidae	Molluscs
<i>Cerithiopsis</i> sp.	Molluscs
<i>Cerodrillia</i> sp.	Molluscs
<i>Chione cancellata</i>	Molluscs
<i>Chione</i> spp.	Molluscs
<i>Crepidula</i> sp.	Molluscs
<i>Ctena</i> spp.	Molluscs
<i>Cumingia coarctata</i>	Molluscs
<i>Cylindrobulla beauui</i>	Molluscs
Cystiscidae	Molluscs
<i>Dentimargo eburneolus</i>	Molluscs
<i>Gibberula lavalleeana</i>	Molluscs
<i>Granulina ovuliformis</i>	Molluscs
<i>Laevicardium mortoni</i>	Molluscs
<i>Laevicardium</i> spp.	Molluscs
<i>Linga</i> spp.	Molluscs
Lucinidae	Molluscs
<i>Melanella</i> sp.	Molluscs
<i>Mitra</i> sp.	Molluscs
<i>Mysella</i> spp.	Molluscs
<i>Nucula proxima</i>	Molluscs
<i>Olivella</i> spp.	Molluscs
<i>Pilsbryspira</i> sp.	Molluscs
<i>Pitar</i> spp.	Molluscs
Polyplacophora	Molluscs

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Prunum apicinum</i>	Molluscs
<i>Rissoina catesbyana</i>	Molluscs
<i>Rissoina</i> sp.	Molluscs
Tellinidae	Molluscs
Unknown Gastropod	Molluscs
<i>Vexillum</i> sp.	Molluscs
<i>Aricidea catherinae</i>	Polychaetes
<i>Aricidea cerrutii</i>	Polychaetes
<i>Aricidea</i> sp. B	Polychaetes
<i>Aricidea</i> sp. C	Polychaetes
<i>Aricidea taylori</i>	Polychaetes
<i>Armandia maculata</i>	Polychaetes
<i>Asychis elongata</i>	Polychaetes
<i>Asychis</i> sp. A	Polychaetes
<i>Bhawania goodei</i>	Polychaetes
<i>Capitella capitata</i>	Polychaetes
<i>Cirriformia</i> sp. A	Polychaetes
<i>Cirrophorus lyra</i>	Polychaetes
<i>Decamastus gracilis</i>	Polychaetes
<i>Dialychone</i> sp. A	Polychaetes
<i>Diplocirrus</i> sp. A	Polychaetes
<i>Euclymene</i> sp. A	Polychaetes
<i>Eunice vittata</i>	Polychaetes
<i>Eupolymnia nebulosa</i>	Polychaetes
<i>Exogone atlantica</i>	Polychaetes
<i>Exogone caribensis</i>	Polychaetes
<i>Exogone dispar</i>	Polychaetes
<i>Exogone verugera</i>	Polychaetes
<i>Fabricinuda trilobata</i>	Polychaetes
<i>Galathowenia oculata</i>	Polychaetes
Goniadidae	Polychaetes

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Grubeosyllis clavata</i>	Polychaetes
<i>Grubeosyllis swedmarki</i>	Polychaetes
<i>Hemipodus borealis</i>	Polychaetes
<i>Isolda pulchella</i>	Polychaetes
<i>Laonome</i> sp. A	Polychaetes
<i>Lumbrineris candida</i>	Polychaetes
<i>Lumbrineris coccinea</i>	Polychaetes
<i>Lumbrineris verrilli</i>	Polychaetes
<i>Lysidice</i> sp. A	Polychaetes
Maldanidae	Polychaetes
<i>Malmgreniella maccrarya</i>	Polychaetes
<i>Microspio</i> sp. A	Polychaetes
<i>Myriochele</i> sp. A	Polychaetes
<i>Neanthes acuminata</i>	Polychaetes
Nereididae	Polychaetes
<i>Notomastus</i> sp. A	Polychaetes
<i>Owenia</i> sp. A	Polychaetes
<i>Pectinaria gouldi</i>	Polychaetes
<i>Phyllodoce arenae</i>	Polychaetes
<i>Podarke obscura</i>	Polychaetes
<i>Podarke</i> sp. A	Polychaetes
<i>Podarkeopsis levifusca</i>	Polychaetes
<i>Polydora aggregata</i>	Polychaetes
<i>Prionospio heterobranchia</i>	Polychaetes
<i>Prionospio multibranchia</i>	Polychaetes
<i>Prionospio</i> sp.	Polychaetes
<i>Prionospio steenstrupi</i>	Polychaetes
<i>Schistomeringos rudolphi</i>	Polychaetes
<i>Sphaerosyllis piriferopsis</i>	Polychaetes
<i>Sphaerosyllis taylori</i>	Polychaetes
<i>Spio pettiboneae</i>	Polychaetes

**Table 2. Summary of Taxa Collected at All Stations,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group
<i>Taylorpholoe hirsuta</i>	Polychaetes
Terebellidae	Polychaetes
<i>Trypanosyllis parvidentata</i>	Polychaetes
<i>Trypanosyllis</i> sp. A	Polychaetes
<i>Trypanosyllis vittigera</i>	Polychaetes
Unidentified polychaete	Polychaetes
<i>Websterinereis tridentata</i>	Polychaetes

**Table 3. Species Richness (Number of Taxa) by Transect Location and Distance from Shore,
Turkey Point Benthic Sampling, March 18, 2009**

Major Group	Total Taxa	Card Sound				Biscayne Bay			
		Distance From Shore (ft)			Total	Distance From Shore (ft)			Total
		250	500	750		250	500	750	
Crustaceans	71	9	17	32	43	37	15	21	48
Echinoderms	8	1	4	5	6	4	3	0	5
Miscellaneous Taxa	14	2	4	6	9	7	5	9	11
Molluscs	37	14	14	13	21	17	15	9	26
Polychaetes	63	13	22	32	49	19	17	16	33
Total Taxa	193	39	61	88	128	84	55	55	123

Table 4. Abundances of Each Major Taxonomic Group by Transect Location and Distance from Shore, Turkey Point Benthic Sampling, March 18, 2009

Classification	Total Number of Individuals	Card Sound				Biscayne Bay			
		Distance From Shore (ft)			Total	Distance From Shore (ft)			Total
		250	500	750		250	500	750	
Crustaceans	1,320	234	498	268	1,000	207	50	63	320
Echinoderms	36	3	16	9	28	5	3	0	8
Miscellaneous Taxa	146	31	4	26	61	28	37	20	85
Molluscs	661	129	132	179	440	79	64	78	221
Polychaetes	495	27	45	88	160	224	64	47	335
Total	2,658	424	695	570	1,689	543	218	208	969

**Table 5. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Card Sound Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Card Sound			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Ampelisca schellenbergi</i>	Crustaceans			1	1
<i>Amphipholis squamata</i>	Echinoderms			1	1
Anthoathecatae	Miscellaneous Taxa		1		1
<i>Aricidea cerrutii</i>	Polychaetes			1	1
<i>Aricidea</i> sp. B	Polychaetes		1		1
<i>Aricidea</i> sp. C	Polychaetes			1	1
<i>Armandia maculata</i>	Polychaetes		1		1
Ascidacea	Miscellaneous Taxa		1		1
<i>Asychis elongata</i>	Polychaetes		1		1
<i>Asychis</i> sp. A	Polychaetes	1			1
<i>Bemlos</i> spp.	Crustaceans			1	1
<i>Caecum floridanum</i>	Molluscs			1	1
<i>Campylaspis</i> sp.	Crustaceans	1			1
<i>Capitella capitata</i>	Polychaetes			1	1
<i>Decamastus gracilis</i>	Polychaetes			1	1
<i>Deutella incerta</i>	Crustaceans			1	1
<i>Diplocirrus</i> sp. A	Polychaetes		1		1
<i>Ericthonius brasiliensis</i>	Crustaceans		1		1
<i>Eupolymnia nebulosa</i>	Polychaetes			1	1
Eusiridae	Crustaceans		1		1
<i>Exogone atlantica</i>	Polychaetes			1	1
<i>Exogone verugera</i>	Polychaetes			1	1
<i>Hemipodus borealis</i>	Polychaetes		1		1
Joeropsididae	Crustaceans			1	1
<i>Kalliapseudes</i> sp.	Crustaceans			1	1
<i>Laonome</i> sp. A	Polychaetes			1	1
<i>Lembos</i> spp.	Crustaceans			1	1
<i>Lembos unifasciatus</i>	Crustaceans		1		1
<i>Lembos unifasciatus unifasciatus</i>	Crustaceans		1		1
<i>Leptochelia forresti</i>	Crustaceans			1	1
<i>Leptochelia longimana</i>	Crustaceans			1	1
Leptocheliidae	Crustaceans			1	1
<i>Limnoria</i> sp.	Crustaceans			1	1

**Table 5. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Card Sound Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Card Sound			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Lytechinus variegatus</i>	Echinoderms		1		1
<i>Malmgreniella maccrariae</i>	Polychaetes		1		1
<i>Melanella</i> sp.	Molluscs			1	1
<i>Microspio</i> sp. A	Polychaetes	1			1
<i>Myriochele</i> sp. A	Polychaetes	1			1
Mysida	Crustaceans			1	1
Nereididae	Polychaetes			1	1
<i>Olivella</i> spp.	Molluscs	1			1
Ophiuroidea	Echinoderms			1	1
<i>Owenia</i> sp. A	Polychaetes			1	1
Paranthuridae	Crustaceans			1	1
<i>Pectinaria gouldi</i>	Polychaetes	1			1
<i>Phyllodoce arenae</i>	Polychaetes			1	1
<i>Podarkeopsis levifusca</i>	Polychaetes		1		1
Podocopida	Crustaceans		1		1
<i>Prionospio multibranchia</i>	Polychaetes		1		1
<i>Prionospio steenstrupi</i>	Polychaetes		1		1
<i>Rocinela signata</i>	Crustaceans		1		1
<i>Sphaerosyllis piriferopsis</i>	Polychaetes		1		1
Tellinidae	Molluscs			1	1
<i>Trypanosyllis parvidentata</i>	Polychaetes			1	1
<i>Trypanosyllis</i> sp. A	Polychaetes		1		1
Unidentified amphipod	Crustaceans			1	1
Unidentified polychaete	Polychaetes			1	1
<i>Amphiodia pulchella</i>	Echinoderms		1	1	2
Aoridae	Crustaceans			2	2
<i>Aricidea catherinae</i>	Polychaetes			2	2
<i>Caecum</i> sp. A	Molluscs			2	2
Carditidae	Molluscs	1	1		2
<i>Cumella</i> spp.	Crustaceans			2	2
<i>Cumingia coarctata</i>	Molluscs	1	1		2
<i>Cylindrobulla beauui</i>	Molluscs	1	1		2
<i>Eunice vittata</i>	Polychaetes			2	2

**Table 5. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Card Sound Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Card Sound			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Eusarsiella nodimarginis</i>	Crustaceans			2	2
<i>Eusarsiella</i> spp.	Crustaceans	2			2
<i>Grubeosyllis clavata</i>	Polychaetes			2	2
Hydrozoa	Miscellaneous Taxa			2	2
<i>Leptochelia dubia</i>	Crustaceans	1		1	2
<i>Lysidice</i> sp. A	Polychaetes		2		2
Myodocopida	Crustaceans			2	2
<i>Spio pettiboneae</i>	Polychaetes			2	2
<i>Xenanthura brevitelson</i>	Crustaceans		1	1	2
<i>Bhawania goodei</i>	Polychaetes		1	2	3
<i>Cyclaspis</i> spp.	Crustaceans	1		2	3
Ectoprocta	Miscellaneous Taxa		1	2	3
Euphausiacea	Crustaceans	3			3
<i>Galathowenia oculata</i>	Polychaetes			3	3
<i>Lumbrineris coccinea</i>	Polychaetes		3		3
Nemertea	Miscellaneous Taxa			3	3
Oligochaeta	Miscellaneous Taxa	2		1	3
Polyplacophora	Molluscs	2	1		3
<i>Prionospio heterobranchia</i>	Polychaetes		2	1	3
<i>Pseudoleptochelia</i> spp.	Crustaceans			3	3
Sarsiellidae	Crustaceans			3	3
<i>Synchelidium americanum</i>	Crustaceans	3			3
Terebellidae	Polychaetes	1		2	3
Anthuridae	Crustaceans			4	4
<i>Asteropella</i> spp.	Crustaceans		1	3	4
<i>Brachidontes</i> spp.	Molluscs		4		4
<i>Cirriformia</i> sp. A	Polychaetes	1		3	4
<i>Ctena</i> spp.	Molluscs	3		1	4
<i>Dialychone</i> sp. A	Polychaetes	1	1	2	4
<i>Iphimedia</i> spp.	Crustaceans		1	3	4
<i>Linga</i> spp.	Molluscs		4		4
<i>Mysella</i> spp.	Molluscs	1	2	1	4
Phoxocephalidae	Crustaceans		4		4

**Table 5. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Card Sound Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Card Sound			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Aricidea taylori</i>	Polychaetes		1	4	5
<i>Euclymene</i> sp. A	Polychaetes			5	5
<i>Fabricinuda trilobata</i>	Polychaetes	3		2	5
Goniadidae	Polychaetes	2	2	1	5
<i>Chione</i> spp.	Molluscs		6		6
<i>Acteocina canaliculata</i>	Molluscs	6		1	7
<i>Nucula proxima</i>	Molluscs	2	4	1	7
<i>Chione cancellata</i>	Molluscs	5	2	1	8
<i>Paracerceis caudata</i>	Crustaceans		1	7	8
<i>Rissoina catesbyana</i>	Molluscs	4	1	3	8
Sipuncula	Miscellaneous Taxa			8	8
<i>Vaunthompsonia minor</i>	Crustaceans		4	4	8
<i>Amphiodia</i> spp.	Echinoderms		8	1	9
Hadziidae	Crustaceans	2	1	6	9
Nemata	Miscellaneous Taxa			10	10
<i>Trypanosyllis vittigera</i>	Polychaetes	2		10	12
<i>Leptochelia</i> spp.	Crustaceans		1	12	13
Amphiuridae	Echinoderms	3	6	5	14
<i>Cirrophorus lyra</i>	Polychaetes	5	6	3	14
<i>Exogone dispar</i>	Polychaetes	4	2	11	17
<i>Lumbrineris verrilli</i>	Polychaetes	4	3	11	18
<i>Schistomeringos rudolphi</i>	Polychaetes		11	7	18
<i>Shoemakerella cubensis</i>	Crustaceans		19	1	20
Lucinidae	Molluscs	13	8	4	25
Sipunculidae	Miscellaneous Taxa	29	1		30
<i>Caecum nitidum</i>	Molluscs	3	6	29	38
<i>Caecum pulchellum</i>	Molluscs	86	91	133	310
<i>Paranesidea gigacantha</i>	Crustaceans	43	170	160	373
<i>Peratocytheridea setipunctata</i>	Crustaceans	178	289	37	504
Total		424	695	570	1,689
Species Richness		39	61	88	128
Shannon-Weaver Diversity Index		3.042	2.959	4.176	3.773

**Table 6. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Biscayne Bay Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Biscayne Bay			
		Distance From Shore (ft)			Total
		250	500	750	
Actiniaria	Miscellaneous Taxa			1	1
<i>Amphiodia pulchella</i>	Echinoderms		1		1
<i>Amphiodia</i> spp.	Echinoderms	1			1
Anthuridae	Crustaceans	1			1
Apseudidae	Crustaceans			1	1
<i>Asychis elongata</i>	Polychaetes	1			1
Bodotriidae	Crustaceans			1	1
<i>Capitella capitata</i>	Polychaetes	1			1
Carditidae	Molluscs	1			1
<i>Cerithiopsis</i> sp.	Molluscs		1		1
<i>Cerodrillia</i> sp.	Molluscs	1			1
<i>Crepidula</i> sp.	Molluscs	1			1
<i>Cylindrobulla beauii</i>	Molluscs	1			1
Cylindroleberididae	Crustaceans	1			1
<i>Decamastus gracilis</i>	Polychaetes		1		1
<i>Ericthonius</i> sp.	Crustaceans			1	1
<i>Eusarsiella disparalis</i>	Crustaceans	1			1
<i>Exogone caribensis</i>	Polychaetes		1		1
<i>Granulina ovuliformis</i>	Molluscs	1			1
<i>Grubeosyllis swedmarki</i>	Polychaetes	1			1
Hemichordata	Miscellaneous Taxa	1			1
<i>Iphimedia</i> spp.	Crustaceans			1	1
<i>Laevicardium mortoni</i>	Molluscs		1		1
Maldanidae	Polychaetes		1		1
<i>Mitra</i> sp.	Molluscs		1		1
<i>Myrophis punctatus</i>	Miscellaneous Taxa	1			1
<i>Neanthes acuminata</i>	Polychaetes			1	1
<i>Notomastus</i> sp. A	Polychaetes	1			1
<i>Oxyurostylis smithi</i>	Crustaceans			1	1
Palaemonidae	Crustaceans	1			1
Paranthuridae	Crustaceans		1		1
Parapseudidae	Crustaceans		1		1

**Table 6. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Biscayne Bay Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Biscayne Bay			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Pectinaria gouldi</i>	Polychaetes	1			1
Penaeidae	Crustaceans	1			1
<i>Pilsbryspira</i> sp.	Molluscs		1		1
<i>Podarke</i> sp. A	Polychaetes		1		1
<i>Podarkeopsis levifuscina</i>	Polychaetes			1	1
<i>Polydora aggregata</i>	Polychaetes			1	1
<i>Prionospio</i> sp.	Polychaetes	1			1
<i>Prunum apicinum</i>	Molluscs		1		1
<i>Rissoina</i> sp.	Molluscs	1			1
<i>Sphaerosyllis piriferopsis</i>	Polychaetes			1	1
<i>Sphaerosyllis taylori</i>	Polychaetes		1		1
Tanaidacea	Crustaceans		1		1
Unknown Gastropod	Molluscs	1			1
<i>Vexillum</i> sp.	Molluscs		1		1
<i>Websterinereis tridentata</i>	Polychaetes		1		1
<i>Ampelisca</i> spp.	Crustaceans	2			2
<i>Amphioplus abdita</i>	Echinoderms	2			2
Amphiuridae	Echinoderms	1	1		2
<i>Bhawania goodei</i>	Polychaetes	2			2
Caprellidae	Crustaceans	1		1	2
<i>Cirrophorus lyra</i>	Polychaetes		1	1	2
<i>Ctena</i> spp.	Molluscs			2	2
<i>Dentimargo eburneolus</i>	Molluscs	2			2
Ectoprocta	Miscellaneous Taxa			2	2
<i>Eusarsiella spinosa</i>	Crustaceans	2			2
<i>Hornellia tequestae</i>	Crustaceans	2			2
Hydrozoa	Miscellaneous Taxa	1		1	2
<i>Laevicardium</i> spp.	Molluscs		2		2
<i>Lumbrineris candida</i>	Polychaetes	1		1	2
<i>Lysidice</i> sp. A	Polychaetes		2		2
<i>Ophiophragmus filigraneus</i>	Echinoderms	1	1		2
<i>Paracerceis caudata</i>	Crustaceans	2			2

**Table 6. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Biscayne Bay Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Biscayne Bay			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Pitar</i> spp.	Molluscs	1	1		2
Podocopida	Crustaceans	2			2
Porifera	Miscellaneous Taxa			2	2
<i>Prionospio steenstrupi</i>	Polychaetes	1		1	2
<i>Pseudoleptochelia</i> spp.	Crustaceans	2			2
<i>Acuminodeutopus naglei</i>	Crustaceans		3		3
<i>Ericthonius</i> sp. A	Crustaceans	1		2	3
Eusiridae	Crustaceans	3			3
<i>Lembos unifasciatus unifasciatus</i>	Crustaceans	3			3
Melitidae	Crustaceans	3			3
<i>Olivella</i> spp.	Molluscs	2	1		3
<i>Paranthura</i> spp.	Crustaceans	2		1	3
Cystiscidae	Molluscs	2	1	1	4
<i>Dulichchiella appendiculata</i>	Crustaceans	4			4
<i>Eusarsiella</i> spp.	Crustaceans	2	1	1	4
Leptocheliidae	Crustaceans			4	4
Nereididae	Polychaetes	3		1	4
<i>Pagurus</i> spp.	Crustaceans	3		1	4
<i>Podarke obscura</i>	Polychaetes	1	2	1	4
Amphilochidae	Crustaceans	5			5
<i>Cerapus</i> spp.	Crustaceans	3		2	5
<i>Eupolymnia nebulosa</i>	Polychaetes	4	1		5
<i>Gibberula lavalleeana</i>	Molluscs	3	1	1	5
<i>Leptochelia</i> spp.	Crustaceans	3	2		5
<i>Neonesidea</i> spp.	Crustaceans		5		5
<i>Nucula proxima</i>	Molluscs		3	2	5
Sipuncula	Miscellaneous Taxa		1	4	5
<i>Bemlos spinicarpus</i>	Crustaceans	6			6
<i>Cumella</i> spp.	Crustaceans	6			6
<i>Isolda pulchella</i>	Polychaetes		5	1	6
Chironomidae	Miscellaneous Taxa	2	4	1	7
<i>Grubeosyllis clavata</i>	Polychaetes	4		3	7

**Table 6. Abundances, Species Richness, and Shannon-Weaver Diversity Index
by Station (Distance from Shore) Along the Biscayne Bay Transect,
Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Type of Taxa	Biscayne Bay			
		Distance From Shore (ft)			Total
		250	500	750	
<i>Paranesidea gigacantha</i>	Crustaceans	1	4	2	7
Polyplacophora	Molluscs	4		3	7
<i>Ampelisca abdita</i>	Crustaceans	8			8
<i>Bemlos</i> spp.	Crustaceans	4		4	8
<i>Lembos unifasciatus</i>	Crustaceans	5		3	8
<i>Melita</i> spp.	Crustaceans	8	1		9
Nemertea	Miscellaneous Taxa	4	3	2	9
<i>Rissoina catesbyana</i>	Molluscs	8		1	9
<i>Dialychone</i> sp. A	Polychaetes		11		11
<i>Ericthonius brasiliensis</i>	Crustaceans	3	2	6	11
<i>Schistomeringos rudolphi</i>	Polychaetes	6	6		12
<i>Taylorpholoe hirsuta</i>	Polychaetes	4	7	1	12
<i>Caecum nitidum</i>	Molluscs	1	7	5	13
Ampithoidae	Crustaceans	13	1	2	16
<i>Laonome</i> sp. A	Polychaetes	12		4	16
Aoridae	Crustaceans	7	4	8	19
Oligochaeta	Miscellaneous Taxa	4	10	6	20
<i>Trypanosyllis vittigera</i>	Polychaetes	17	2	1	20
<i>Grandidierella bonnieroides</i>	Crustaceans	24			24
<i>Lembos</i> spp.	Crustaceans	6	14	7	27
<i>Brachidontes</i> spp.	Molluscs	28	1	2	31
Nemata	Miscellaneous Taxa	15	19	1	35
Hadziidae	Crustaceans	23	5	12	40
<i>Shoemakerella cubensis</i>	Crustaceans	43	5	2	50
<i>Exogone dispar</i>	Polychaetes	31	5	20	56
<i>Caecum pulchellum</i>	Molluscs	21	41	61	123
<i>Fabricinuda trilobata</i>	Polychaetes	132	16	8	156
Total		543	218	208	969
Species Richness		84	55	55	123
Shannon-Weaver Diversity Index		4.870	4.777	4.480	5.294

Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by Transect Location, Turkey Point Benthic Sampling, March 18, 2009

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
Actiniaria	Miscellaneous Taxa		1	1
<i>Ampelisca schellenbergi</i>	Crustaceans	1		1
<i>Amphipholis squamata</i>	Echinoderms	1		1
Anthoathecatae	Miscellaneous Taxa	1		1
Apseudidae	Crustaceans		1	1
<i>Aricidea cerrutii</i>	Polychaetes	1		1
<i>Aricidea</i> sp. B	Polychaetes	1		1
<i>Aricidea</i> sp. C	Polychaetes	1		1
<i>Armandia maculata</i>	Polychaetes	1		1
Asciacea	Miscellaneous Taxa	1		1
<i>Asychis</i> sp. A	Polychaetes	1		1
Bodotriidae	Crustaceans		1	1
<i>Caecum floridanum</i>	Molluscs	1		1
<i>Campylaspis</i> sp.	Crustaceans	1		1
<i>Cerithiopsis</i> sp.	Molluscs		1	1
<i>Cerodrillia</i> sp.	Molluscs		1	1
<i>Crepidula</i> sp.	Molluscs		1	1
Cylindroleberididae	Crustaceans		1	1
<i>Deutella incerta</i>	Crustaceans	1		1
<i>Diplocirrus</i> sp. A	Polychaetes	1		1
<i>Erichthonius</i> sp.	Crustaceans		1	1
<i>Eusarsiella disparalis</i>	Crustaceans		1	1
<i>Exogone atlantica</i>	Polychaetes	1		1
<i>Exogone caribensis</i>	Polychaetes		1	1
<i>Exogone verugera</i>	Polychaetes	1		1
<i>Granulina ovuliformis</i>	Molluscs		1	1
<i>Grubeosyllis swedmarki</i>	Polychaetes		1	1
Hemichordata	Miscellaneous Taxa		1	1
<i>Hemipodus borealis</i>	Polychaetes	1		1
Joeropsididae	Crustaceans	1		1

**Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by
Transect Location, Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
<i>Kalliapseudes</i> sp.	Crustaceans	1		1
<i>Laevicardium mortoni</i>	Molluscs		1	1
<i>Leptochelia forrestii</i>	Crustaceans	1		1
<i>Leptochelia longimana</i>	Crustaceans	1		1
<i>Limnoria</i> sp.	Crustaceans	1		1
<i>Lytechinus variegatus</i>	Echinoderms	1		1
Maldanidae	Polychaetes		1	1
<i>Malmgreniella maccroryae</i>	Polychaetes	1		1
<i>Melanella</i> sp.	Molluscs	1		1
<i>Microspio</i> sp. A	Polychaetes	1		1
<i>Mitra</i> sp.	Molluscs		1	1
<i>Myriochele</i> sp. A	Polychaetes	1		1
<i>Myrophis punctatus</i>	Miscellaneous Taxa		1	1
Mysida	Crustaceans	1		1
<i>Neanthes acuminata</i>	Polychaetes		1	1
<i>Notomastus</i> sp. A	Polychaetes		1	1
Ophiuroidea	Echinoderms	1		1
<i>Owenia</i> sp. A	Polychaetes	1		1
<i>Oxyurostylis smithi</i>	Crustaceans		1	1
Palaemonidae	Crustaceans		1	1
Paraseudidae	Crustaceans		1	1
Penaeidae	Crustaceans		1	1
<i>Phyllodoce arenae</i>	Polychaetes	1		1
<i>Pilsbryspira</i> sp.	Molluscs		1	1
<i>Podarke</i> sp. A	Polychaetes		1	1
<i>Polydora aggregata</i>	Polychaetes		1	1
<i>Prionospio multibranchia</i>	Polychaetes	1		1
<i>Prionospio</i> sp.	Polychaetes		1	1
<i>Prunum apicinum</i>	Molluscs		1	1
<i>Rissoina</i> sp.	Molluscs		1	1

Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by Transect Location, Turkey Point Benthic Sampling, March 18, 2009

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
<i>Rocinela signata</i>	Crustaceans	1		1
<i>Sphaerosyllis taylori</i>	Polychaetes		1	1
Tanaidacea	Crustaceans		1	1
Tellinidae	Molluscs	1		1
<i>Trypanosyllis parvidentata</i>	Polychaetes	1		1
<i>Trypanosyllis</i> sp. A	Polychaetes	1		1
Unidentified amphipod	Crustaceans	1		1
Unidentified polychaete	Polychaetes	1		1
Unknown Gastropod	Molluscs		1	1
<i>Vexillum</i> sp.	Molluscs		1	1
<i>Websterinereis tridentata</i>	Polychaetes		1	1
<i>Ampelisca</i> spp.	Crustaceans		2	2
<i>Amphioplus abdita</i>	Echinoderms		2	2
<i>Aricidea catherinae</i>	Polychaetes	2		2
<i>Asychis elongata</i>	Polychaetes	1	1	2
<i>Caecum</i> sp. A	Molluscs	2		2
<i>Capitella capitata</i>	Polychaetes	1	1	2
Caprellidae	Crustaceans		2	2
<i>Cumingia coarctata</i>	Molluscs	2		2
<i>Decamastus gracilis</i>	Polychaetes	1	1	2
<i>Dentimargo eburneolus</i>	Molluscs		2	2
<i>Eunice vittata</i>	Polychaetes	2		2
<i>Eusarsiella nodimarginis</i>	Crustaceans	2		2
<i>Eusarsiella spinosa</i>	Crustaceans		2	2
<i>Hornellia tequestae</i>	Crustaceans		2	2
<i>Laevicardium</i> spp.	Molluscs		2	2
<i>Leptochelia dubia</i>	Crustaceans	2		2
<i>Lumbrineris candida</i>	Polychaetes		2	2
Myodocopida	Crustaceans	2		2
<i>Ophiophragmus filigraneus</i>	Echinoderms		2	2

**Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by
Transect Location, Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
Paranthuridae	Crustaceans	1	1	2
<i>Pectinaria gouldi</i>	Polychaetes	1	1	2
<i>Pitar</i> spp.	Molluscs		2	2
<i>Podarkeopsis levifuscina</i>	Polychaetes	1	1	2
Porifera	Miscellaneous Taxa		2	2
<i>Sphaerosyllis piriferopsis</i>	Polychaetes	1	1	2
<i>Spio pettiboneae</i>	Polychaetes	2		2
<i>Xenanthura brevitelson</i>	Crustaceans	2		2
<i>Acuminodeutopus naglei</i>	Crustaceans		3	3
<i>Amphiodia pulchella</i>	Echinoderms	2	1	3
Carditidae	Molluscs	2	1	3
<i>Cyclaspis</i> spp.	Crustaceans	3		3
<i>Cylindrobulla beaulti</i>	Molluscs	2	1	3
<i>Ericthonius</i> sp. A	Crustaceans		3	3
Euphausiacea	Crustaceans	3		3
<i>Galathowenia oculata</i>	Polychaetes	3		3
<i>Lumbrineris coccinea</i>	Polychaetes	3		3
Melitidae	Crustaceans		3	3
<i>Paranthura</i> spp.	Crustaceans		3	3
Podocopida	Crustaceans	1	2	3
<i>Prionospio heterobranchia</i>	Polychaetes	3		3
<i>Prionospio steenstrupi</i>	Polychaetes	1	2	3
Sarsiellidae	Crustaceans	3		3
<i>Synchelidium americanum</i>	Crustaceans	3		3
Terebellidae	Polychaetes	3		3
<i>Asteropella</i> spp.	Crustaceans	4		4
<i>Cirriformia</i> sp. A	Polychaetes	4		4
Cystiscidae	Molluscs		4	4
<i>Dulichella appendiculata</i>	Crustaceans		4	4
Eusiridae	Crustaceans	1	3	4

Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by Transect Location, Turkey Point Benthic Sampling, March 18, 2009

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
Hydrozoa	Miscellaneous Taxa	2	2	4
<i>Lembos unifasciatus unifasciatus</i>	Crustaceans	1	3	4
<i>Linga</i> spp.	Molluscs	4		4
<i>Lysidice</i> sp. A	Polychaetes	2	2	4
<i>Mysella</i> spp.	Molluscs	4		4
<i>Olivella</i> spp.	Molluscs	1	3	4
<i>Pagurus</i> spp.	Crustaceans		4	4
Phoxocephalidae	Crustaceans	4		4
<i>Podarke obscura</i>	Polychaetes		4	4
Amphilochidae	Crustaceans		5	5
Anthuridae	Crustaceans	4	1	5
<i>Aricidea taylori</i>	Polychaetes	5		5
<i>Bhawania goodei</i>	Polychaetes	3	2	5
<i>Cerapus</i> spp.	Crustaceans		5	5
Ectoprocta	Miscellaneous Taxa	3	2	5
<i>Euclymene</i> sp. A	Polychaetes	5		5
<i>Gibberula lavalleeana</i>	Molluscs		5	5
Goniadidae	Polychaetes	5		5
<i>Iphimedia</i> spp.	Crustaceans	4	1	5
Leptocheliidae	Crustaceans	1	4	5
<i>Neonesidea</i> spp.	Crustaceans		5	5
Nereididae	Polychaetes	1	4	5
<i>Pseudoleptochelia</i> spp.	Crustaceans	3	2	5
<i>Bemlos spinicarpus</i>	Crustaceans		6	6
<i>Chione</i> spp.	Molluscs	6		6
<i>Ctena</i> spp.	Molluscs	4	2	6
<i>Eupolymnia nebulosa</i>	Polychaetes	1	5	6
<i>Eusarsiella</i> spp.	Crustaceans	2	4	6
<i>Isolda pulchella</i>	Polychaetes		6	6
<i>Acteocina canaliculata</i>	Molluscs	7		7

**Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by
Transect Location, Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
Chironomidae	Miscellaneous Taxa		7	7
<i>Ampelisca abdita</i>	Crustaceans		8	8
<i>Chione cancellata</i>	Molluscs	8		8
<i>Cumella</i> spp.	Crustaceans	2	6	8
<i>Vaunthompsonia minor</i>	Crustaceans	8		8
<i>Bemlos</i> spp.	Crustaceans	1	8	9
<i>Grubeosyllis clavata</i>	Polychaetes	2	7	9
<i>Lembos unifasciatus</i>	Crustaceans	1	8	9
<i>Melita</i> spp.	Crustaceans		9	9
<i>Amphiodia</i> spp.	Echinoderms	9	1	10
<i>Paracerceis caudata</i>	Crustaceans	8	2	10
Polyplacophora	Molluscs	3	7	10
<i>Erichthonius brasiliensis</i>	Crustaceans	1	11	12
Nemertea	Miscellaneous Taxa	3	9	12
<i>Nucula proxima</i>	Molluscs	7	5	12
<i>Taylorpholoe hirsuta</i>	Polychaetes		12	12
Sipuncula	Miscellaneous Taxa	8	5	13
<i>Dialychone</i> sp. A	Polychaetes	4	11	15
Amphiuridae	Echinoderms	14	2	16
Ampithoidae	Crustaceans		16	16
<i>Cirrophorus lyra</i>	Polychaetes	14	2	16
<i>Laonome</i> sp. A	Polychaetes	1	16	17
<i>Rissoina catesbyana</i>	Molluscs	8	9	17
<i>Leptochelia</i> spp.	Crustaceans	13	5	18
<i>Lumbrineris verrilli</i>	Polychaetes	18		18
Aoridae	Crustaceans	2	19	21
Oligochaeta	Miscellaneous Taxa	3	20	23
<i>Grandidierella bonnieroides</i>	Crustaceans		24	24
Lucinidae	Molluscs	25		25
<i>Lembos</i> spp.	Crustaceans	1	27	28

**Table 7. Abundances, Species Richness, and Shannon-Weaver Diversity Index by
Transect Location, Turkey Point Benthic Sampling, March 18, 2009**

Taxa	Major Group	Transect		All Stations Combined
		Card Sound	Biscayne Bay	
<i>Schistomeringos rudolphi</i>	Polychaetes	18	12	30
Sipunculidae	Miscellaneous Taxa	30		30
<i>Trypanosyllis vittigera</i>	Polychaetes	12	20	32
<i>Brachidontes</i> spp.	Molluscs	4	31	35
Nemata	Miscellaneous Taxa	10	35	45
Hadziidae	Crustaceans	9	40	49
<i>Caecum nitidum</i>	Molluscs	38	13	51
<i>Shoemakerella cubensis</i>	Crustaceans	20	50	70
<i>Exogone dispar</i>	Polychaetes	17	56	73
<i>Fabricinuda trilobata</i>	Polychaetes	5	156	161
<i>Paranesidea gigacantha</i>	Crustaceans	373	7	380
<i>Caecum pulchellum</i>	Molluscs	310	123	433
<i>Peratocytheridea setipunctata</i>	Crustaceans	504		504
Total		1,689	969	2,658
Species Richness		128	123	193
Shannon-Weaver Diversity Index		3.773	5.294	4.887