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APPENDIX A

Taxa enumerated from each Pre-impact benthos sampling event in support of the Nags Head Beach Nourishment Project (2010-2011)

Class/Group	Taxa	Spring				Summer				Fall				Winter			
		Offshore		Beach		Offshore		Beach		Offshore		Beach		Offshore		Beach	
		Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact
Anthozoa																	
	Actiniaria sp. juv.					X											
	Zoantharia sp.	X															
Ascidiacea																	
	Ascidiacea sp.	X	X			X	X			X	X		X	X	X	X	
	Molgula arenata					X	X										
Asteroidea																	
	Asterias forbesi					X	X										
Bivalvia																	
	Bivalvia sp. juv.	X	X	X		X	X	X	X	X	X	X			X		
	Corbula contracta						X										
	Donax variabilis			X	X			X	X								
	Ensis directus	X	X												X		
	Mytilus edulis															X	
	Pandora trilineata		X														
	Periploma margaritaceum					X				X							
	Periploma sp.						X										
	Spisula raveneli		X														
	Spisula solidissima					X	X										
	Tellina sp.					X	X			X							
	Thracia sp.	X	X														
Cephalochordata																	
	Branchiostoma caribaeum	X	X			X	X			X	X				X		
Chordata																	
	Tunicata sp.	X	X														
Clitellata																	
	Clitellio arenicolas	X	X			X				X	X						
	Heterodrilus arenicolus													X	X		
	Hirudinea sp.								X								
	Oligochaeta sp.	X		X													
	Oligochaeta spp.		X														
	Tubificidae w/o hair	X								X	X				X		
Echinodermata																	
	Echinodermata sp. juv.		X														
Echinoidea																	
	Echinoidea sp. juv.		X			X	X										
	Mellita isometra		X							X	X						
	Moira atropos	X															
Gastropoda																	
	Caecum sp.						X										
	Corambe obscura	X															
	Cylichna sp.					X	X										
	Doridella sp.																X
	Gastropoda sp.	X				X	X				X						

Class/Group	Taxa	Spring				Summer				Fall				Winter			
		Offshore		Beach		Offshore		Beach		Offshore		Beach		Offshore		Beach	
		Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact
	Polinices duplicatus																
	Vitrinelliidae sp.	X															
Hydrazoa																	
	Hydractinia echinata						X										
Insecta																	
	Aphididae			X													
	Diptera sp.															X	
	Staphylinidae											X					
	Mucrogammarus mucronata				X												
Malacostraca																	
	Acanthohaustorius bousfieldi					X											
	Acanthohaustorius sp.						X										
	Amakusanthura magnifica													X			
	Ameroculodes spp. complex															X	X
	Americamysis bigelowi									X							
	Amphiporeia virginiana			X	X			X	X			X	X		X	X	X
	Amphipoda sp.			X	X												
	Ancinus depressus									X							
	Apocorophium louisianum				X												
	Apocorophium sp.												X				
	Brachyura sp. juv.					X											
	Chirodotea (caeca)		X							X							
	Chirodoter arenicola														X		
	Cirolani polita	X				X											
	Corophiidae sp.												X				
	Cumacea w/ telson sp. juv.					X	X										
	Cyclaspis varians						X										
	Diastylis sp. juv.						X										
	Edotea sp.					X	X					X					
	Emerita talpoida			X	X			X	X			X	X			X	X
	Flabellifera sp. juv.													X			
	Haustoriidae sp.				X						X						
	Haustorius canadensis			X				X	X								
	Haustorius sp. D			X	X							X				X	X
	Idoteidae sp. juv.		X														
	Lepidactylus dytiscus														X		
	Lepidactylus cf. triarticulatus			X	X												
	Leptocheliidae juv. sp.			X	X												
	Leptocheliidae sp.				X								X				X
	Mancocuma juv. sp.				X												
	Microprotopus raneyi				X	X	X							X			
	Mysidacea sp.										X						
	Ovalipes ocellatus			X												X	X

Class/Group	Taxa	Spring				Summer				Fall				Winter			
		Offshore		Beach		Offshore		Beach		Offshore		Beach		Offshore		Beach	
		Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact
	Oxyurostylis smithi	X				X	X	X									
	Pagurus annulipes														X		
	Pagurus longicarpus						X										
	Pagurus pollicaris		X														
	Palaemonetes (P.) pugio				X												
	Parahaustorius attenuatus			X	X												
	Parahaustorius longimerus			X	X												
	Processa sp.					X											
	Protohaustorius cf. bousfieldi				X												
	Protohaustorius cf. wigleyi														X		
	Rhepoxynius epistomus														X		
	Tanaissus psammophilus														X		
	Tanaissus sp.		X			X	X			X				X			
	Tiron tropakis					X	X										
	Unicola irrorata						X							X			
	Unicola serrata		X														
Nemertea																	
	Nemertea sp.	X		X	X		X	X	X					X		X	X
Ostracoda																	
	Ostracoda sp.						X				X						
Polychaeta																	
	Aricidea (Acmira)									X							
	Aglaophamus verrilli		X			X	X										
	Aphelochaeta sp.	X					X										
	Brania wellfleetensis	X	X			X	X										
	Capitella capitata	X	X			X	X										
	Caulleriella killariensis		X			X	X										
	Chaetogordius canalicul														X		
	Cirratulidae sp.	X				X	X			X	X						
	Cirrophorus sp.		X							X							
	Dindymenides concinna					X											
	Diopatra cuprea														X		
	Dorvillidae sp.	X															
	Eteone heteropoda	X			X	X	X										
	Eteone lactea									X							
	Glycera sp.	X				X	X										
	Harmothoe sp.									X							
	Hemipodus sp.									X							
	Hesionides pettiboneae			X	X			X	X			X					
	Hesionura coineaui														X		
	Lumbrineridae sp.									X							
	Lumbrinerides dayi	X								X							
	Lysarete brasiliensis					X											
	Lysidice ninetta					X											

Class/Group	Taxa	Spring				Summer				Fall				Winter			
		Offshore		Beach		Offshore		Beach		Offshore		Beach		Offshore		Beach	
		Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact	Control	Impact
	Lysilla sp.									X	X						
	Mediomastus ambiseta				X												
	Nephtys bucera									X	X			X	X		
	Onuphis sp.					X	X										
	Ophelia denticulata						X			X	X						
	Ophelia sp.						X										
	Opheliidae sp. juv.						X				X						
	Owenia sp.					X	X										
	Paraonis pygoenigmatica	X															
	Parougia caeca	X				X	X			X	X			X	X		
	Phyllodocidae sp.	X				X				X				X	X		
	Pionosyllus sp.										X			X			
	Polydora cornuta						X										
	Polydora socialis						X			X							
	Polydora websteri										X						
	Polygordius jouinae					X	X			X	X			X	X		
	Polynoidae sp.			X													
	Protodriloides chaetifer										X						
	Ramphobrachium atlanticum					X	X										
	Scolelepis squamata			X	X			X	X			X	X			X	X
	Sigalion sp.	X				X								X			
	Spiophanes bombyx	X	X			X	X										
	Streblospio benedicti							X									
	Streptosyllis pettiboneae	X	X				X				X			X	X		
	Syllidae sp. juv.					X				X							
	Terebellidae sp.														X		
	Tharyx sp. A					X				X	X				X		
Sagittoidea																	
	Sagitta sp.										X	X					