DATA APPENDICES

Appendix 1.1. Summary of station locations and dates sampled in 1999 and 2000. RO stations designate open water habitat and RT stations designate tidal creek habitats. Development codes: NDV = no development visible, R<1 = Residential less than 1 km away, R>1 = residential greater than 1 km away, I<1 = Industrial site < 1 km away, I>1 = Industrial site located > 1 km away.

SCECAP 1999 Water Quality
Station Information -- Open Water

Station	Station Type	Latitude Decimal Degrees	Longitude Decimal Degrees	Station Depth (meters)	Date Sampled	County	Development Code	Approximate Location
RO99301	Open	32.88486	79.87600	2.0	07/07/1999	Charleston	NDV	Off of Wando River in Nowell Creek
RO99302	Open	32.63618	80.46825	10.0	08/25/1999	Colleton	R<1	Upper Ashepoo River
RO99303	Open	32.31833	80.66026	1.0	08/10/1999	Beaufort	R<1	In Beaufort River off Parris Island
RO99304	Open	32.34213	80.90036	2.5	07/20/1999	Beaufort	R<1	Lower Okatie River
RO99305	Open	32.30514	80.75850	10.0	07/20/1999	Beaufort	R>1	Lower Chechesee River
RO99306	Open	33.53927	79.02963	2.0	08/23/1999	Georgetown	R<1	Lower Murrell's Inlet
RO99307	Open	33.20107	79.41741	2.0	07/13/1999	Georgetown	NDV	South Santee River near Highway 17 bridge
RO99308	Open	32.46280	80.45373	10.0	08/04/1999	Beaufort	R>1	Saint Helena Sound near Morgan Island
RO99309	Open	32.48787	80.58732	5.0	08/04/1999	Beaufort	R<1	Lower Coosaw River near Coosaw Island
RO99310	Open	32.30051	80.66381	5.0	08/10/1999	Beaufort	R>1	Beaufort River near Parris Island
RO99311	Open	33.13766	79.27973	3.0	07/13/1999	Charleston	NDV	Lower South Santee near Murphy Island
RO99312	Open	32.63149	80.06459	6.0	07/08/1999	Charleston	R>1	Kiawah River
RO99313	Open	32.54594	80.75418	2.0	08/03/1999	Beaufort	R>1	Whale Branch Creek
RO99315	Open	32.21238	80.90505	3.0	07/27/1999	Beaufort	R>1	Upper May River
RO99316	Open	33.33951	79.27480	3.5	08/17/1999	Georgetown	I>1	Winyah Bay near City of Georgetown
RO99317	Open	32.63379	79.99789	5.3	07/08/1999	Charleston	NDV	Near confluence of Folly River and Stono River
RO99318	Open	32.44989	80.51007	4.0	08/04/1999	Beaufort	R>1	Lower Morgan River
RO99319	Open	32.46700	80.54373	5.0	08/04/1999	Beaufort	R>1	Parrot Creek on Morgan Island
RO99320	Open	32.19842	80.80661	10.0	07/27/1999	Beaufort	R>1	Lower May River
RO99321	Open	33.28835	79.27434	2.0	08/17/1999	Georgetown	R>1	Winyah Bay
RO99322	Open	32.79702	79.90902	2.8	07/07/1999	Charleston	R<1	Charleston Harbor near Patriots Point
RO99323	Open	32.60660	80.22701	2.0	07/28/1999	Charleston	R>1	North Edisto River near mouth of Leadenwah Creek
RO99324	Open	32.39155	80.84245	5.0	07/20/1999	Beaufort	R>1	Buzzard Creek in Broad River
RO99325	Open	32.31847	80.80146	6.0	07/20/1999	Beaufort	R>1	Lower Chechesee River
RO99326	Open	33.27288	79.21744	2.0	09/01/1999	Georgetown	I>1	Winyah Bay near Marsh Island
RO99327	Open	32.71090	79.98936	2.0	07/08/1999	Charleston	R>1	Stono River
RO99328	Open	32.51798	80.36643	7.0	08/17/1999	Charleston	R>1	Lower South Edisto River near Saint Pierre Creek
RO99329	Open	32.42656	80.67079	5.5	07/21/1999	Beaufort	R<1	Beaufort River near City of Beaufort
RO99330	Open	32.18265	80.74171	4.0	07/27/1999	Beaufort	R<1	Upper Broad Creek on Hilton Head Island

SCECAP 2000 Water Quality
Station Information -- Open Water

Station	Station Type	Latitude Decimal Degrees	Longitude Decimal Degrees	Station Depth (meters)	Date Sampled	County	Development Code	Approximate Location
RO00006	Open	33.20234	79.18721	4.0	08/08/2000	Georgetown	R<1	Winyah Bay near the mouth
RO00007	Open	32.97532	79.91113	15.0	07/11/2000	Berkeley	I>1	Cooper River above Bushy Park
RO00008	Open	32.44977	80.50282	4.3	06/27/2000	Beaufort	R>1	Morgan River north of St Helena Island
RO00009	Open	32.37755	80.70574	2.1	06/20/2000	Beaufort	I>1	Port Royal in Battery Creek
RO00010	Open	32.29549	80.64808	6.4	06/20/2000	Beaufort	R<1	St Helena Sound in mouth of Beaufort River
RO00015	Open	33.36870	79.24757	1.0	08/08/2000	Georgetown	I>1	Waccamaw River just above Hwy 17 Bridge
RO00016	Open	33.06956	79.47421	2.1	07/18/2000	Charleston	R<1	McClellanville area, intersection of ICW and Matthews Creek
RO00017	Open	32.49974	80.44495	5.5	06/28/2000	Colleton	R>1	St Helena Sound in mouth of Rock Creek
RO00018	Open	32.49816	80.51617	8.2	06/28/2000	Beaufort	NDV	Coosaw River just north of Morgan Island
RO00019	Open	32.21329	80.87769	3.0	08/01/2000	Beaufort	R<1	May River just down river from Bluffton
RO00020	Open	33.32670	79.27856	3.0	08/08/2000	Georgetown	I>1	Winyah Bay just below Georgetown
RO00021	Open	33.20249	79.27205	1.0	08/08/2000	Georgetown	NDV	Intracoastal Waterway just north of the North Santee River
RO00022	Open	32.50254	80.35826	10.0	07/26/2000	Colleton	R<1	South Edisto River just east of Pine Island
RO00023	Open	32.49579	80.57587	5.2	06/28/2000	Beaufort	R>1	Coosaw River behind Lady's Island
RO00024	Open	32.30055	80.80145	10.1	06/21/2000	Beaufort	R<1	Colleton River near Victoria Bluff
RO00033	Open	32.78135	79.87691	1.2	07/19/2000	Charleston	R<1	Charleston Harbor behind Crab Bank
RO00034	Open	33.40089	79.24031	4.5	08/09/2000	Georgetown	NDV	Great Pee Dee River above confluence with Black River
RO00035	Open	32.63557	80.26876	7.0	07/25/2000	Charleston	R>1	Wadmalaw River near Bears Bluff
RO00036	Open	32.49446	80.79973	7.0	07/05/2000	Beaufort	R>1	Whale Branch north of Cotton Island
RO00037	Open	32.29158	80.72581	1.8	06/21/2000	Beaufort	R>1	Chechesse River at south tip of Daws Island
RO00045	Open	32.77275	80.07455	3.0	07/12/2000	Charleston	R<1	Stono River west of Ross Marine
RO00046	Open	32.61194	80.47833	7.0	08/15/2000	Colleton	NDV	Ashepoo River above SR 26 bridge
RO00047	Open	32.37838	80.79110	10.4	06/21/2000	Beaufort	R>1	Broad river near SW end of Hwy 170 bridge
RO00048	Open	32.35258	80.65246	6.7	06/20/2000	Beaufort	R<1	Beaufort River in mouth of Cowen Creek
RO00049	Open	32.29581	80.75849	2.7	06/21/2000	Beaufort	R>1	Chechesee River east of Daws Island
RO00055	Open	33.33733	79.17595	5.0	08/09/2000	Georgetown	R>1	North Inlet near mouth of Old Man Creek
RO00056	Open	32.83794	79.94722	6.4	07/11/2000	Charleston	I<1	Cooper River in the turning basin of Shipyard Creek
RO00057	Open	32.61562	80.16614	6.1	08/15/2000	Charleston	R<1	Bohicket Creek near Camp Ho-Non-Wah
RO00058	Open	32.49902	80.82497	5.5	07/05/2000	Beaufort	R>1	Broad River just above Whale Branch
RO00059	Open	32.17809	80.77239	4.9	08/01/2000	Beaufort	R<1	Broad Creek in town of Hilton Head Island

SCECAP 1999 Water Quality
Station Information -- Tidal Creeks

Station	Station Type	Latitude Decimal Degrees	Longitude Decimal Degrees	Station Depth (meters)	Date Sampled	County	Development Code	Approximate Location
RT99001	Creek	33.02613	79.46133	4.0	07/13/1999	Charleston	NDV	Lower Five Fathom Creek near Bull Bay in Key Creek
RT99002	Creek	33.34826	79.17556	1.5	08/31/1999	Georgetown	R>1	Old Man Creek in North Inlet
RT99003	Creek	32.33099	80.49848	4.5	07/14/1999	Beaufort	R>1	Old House Creek behind Hunting Island
RT99004	Creek	32.64392	80.04372	1.3	08/26/1999	Charleston	R>1	Chapin Creek in Kiawah River
RT99005	Creek	32.44043	80.65215	1.0	07/21/1999	Beaufort	R<1	In Beaufort River near City of Beaufort
RT99006	Creek	33.85259	78.58401	1.0	08/23/1999	Horry	R>1	Near Little River, behind Waites Island
RT99007	Creek	32.71620	79.93245	3.3	08/24/1999	Charleston	R<1	Creek on James Island in Clark Sound
RT99008	Creek	32.36264	80.47678	2.8	07/14/1999	Beaufort	NDV	Small creek on Hunting Island
RT99009	Creek	32.55787	80.36176	2.0	08/17/1999	Charleston	R<1	Bailey Creek in South Edisto River
RT99010	Creek	32.50625	80.80200	2.0	08/03/1999	Beaufort	NDV	Tributary of Broad Creek On Hilton Head Island
RT99012	Creek	32.29527	80.62009	4.0	08/18/1999	Beaufort	R>1	Station Creek on Saint Phillips Island
RT99013	Creek	32.33579	80.55986	3.0	07/14/1999	Beaufort	R>1	Club Bridge Creek in front of St. Helena Island
RT99017	Creek	32.82468	79.86668	1.1	07/07/1999	Charleston	R<1	Hobcaw Creek in Wando River
RT99019	Creek	32.56216	80.24406	2.0	07/28/1999	Charleston	R<1	Ocella Creek in North Edisto River
RT99021	Creek	32.67164	79.92906	1.5	07/08/1999	Charleston	R<1	Sol Legare Creek in Folly River
RT99022	Creek	32.15780	80.78822	2.0	07/27/1999	Beaufort	R<1	Tributary of Broad Creek On Hilton Head Island
RT99024	Creek	32.45226	80.83653	3.0	08/03/1999	Beaufort	R>1	Cole Creek in Broad River
RT99026	Creek	33.08434	79.42012	2.0	07/13/1999	Charleston	NDV	Dupre Creek near McClellanville
RT99027	Creek	32.89336	79.90693	2.8	07/07/1999	Charleston	R<1	Nowell Creek in Wando River
RT99028	Creek	32.34623	80.55658	3.0	08/18/1999	Beaufort	R>1	Front of St Helena Island in tributary of Harbor River
RT99029	Creek	32.57622	80.22423	1.0	07/28/1999	Charleston	R>1	Small creek in lower North Edisto
RT99030	Creek	32.38852	80.63335	1.3	08/10/1999	Beaufort	R<1	Cowen Creek in Beaufort River
RT99036	Creek	33.08941	79.36432	2.0	07/13/1999	Charleston	NDV	Alligator Creek near Cape Romain Harbor
RT99037	Creek	32.94183	79.77252	2.0	08/24/1999	Charleston	R>1	Guerin Creek in upper Wando River
RT99038	Creek	32.34355	80.54637	2.0	08/18/1999	Beaufort	R>1	Behind Pritchards Island in tributary of Trenchards Inlet
RT99039	Creek	32.58222	80.18624	3.0	08/11/1999	Charleston	R>1	Privateer Creek in lower North Edisto River
RT99040	Creek	32.39288	80.64129	4.0	08/10/1999	Beaufort	R<1	Cowen Creek in Beaufort River

SCECAP 2000 Water Quality
Station Information -- Tidal Creeks

Station	Station Type	Latitude Decimal Degrees	Longitude Decimal Degrees	Station Depth (meters)	Date Sampled	County	Development Code	Approximate Location
RT00501	Creek	32.08962	80.91504	3.0	08/02/2000	Jasper	NDV	Wright River in creek at Walls Cut
RT00502	Creek	32.60658	80.53689	6.1	07/26/2000	Colleton	R<1	Old Chehaw River below Social Hall Creek
RT00503	Creek	32.59960	80.20279	1.2	07/25/2000	Charleston	R<1	North Edisto River in Adams Creek
RT00504	Creek	32.41529	80.59778	1.2	06/27/2000	Beaufort	R<1	Warsaw Island in Jenkins Creek
RT00505	Creek	33.03596	79.39523	4.3	07/18/2000	Charleston	NDV	Cape Romain in Devils Den Creek
RT00517	Creek	32.30152	80.58416	1.2	06/20/2000	Beaufort	NDV	Trenchard's Inlet in creek behind St Phillips Island
RT00518	Creek	32.60680	80.27374	0.6	07/25/2000	Charleston	R>1	North Edisto River in Westbank Creek
RT00519	Creek	32.55060	80.83434	1.0	07/05/2000	Beaufort	R<1	Pocotaligo River in Haulover Creek
RT00520	Creek	32.81430	79.75468	3.7	07/19/2000	Charleston	R<1	Goat Island, in creek forming east end of island
RT00521	Creek	33.03783	79.49191	4.0	07/18/2000	Charleston	NDV	Bull Bay in Sett Creek
RT00523	Creek	32.50421	80.30581	1.0	07/26/2000	Colleton	R<1	Edisto Island in creek behind island
RT00525	Creek	32.90371	79.62633	2.1	07/19/2000	Charleston	NDV	Bull Island in Summerhouse Creek
RT00526	Creek	32.89260	80.10793	1.0	07/12/2000	Charleston	R<1	Ashley River upriver of Magnolia Plantation
RT00528	Creek	32.58842	80.44940	1.0	06/28/2000	Colleton	NDV	Ashepoo River in Mosquito Creek
RT00530	Creek	32.87613	79.69637	1.2	07/19/2000	Charleston	NDV	Capers Island in creek off of Santee Pass
RT00531	Creek	32.89936	79.90107	3.4	07/11/2000	Berkeley	R<1	Wando River in Nowell Creek
RT00541	Creek	32.15812	80.84277	5.0	08/01/2000	Beaufort	R>1	Calibogue Sound in a creek off of Cooper River
RT00542	Creek	32.64646	80.05758	0.6	07/12/2000	Charleston	R<1	Kiawah River in Chapin Creek
RT00543	Creek	32.47165	80.50820	0.9	06/27/2000	Beaufort	R>1	MorganRiver in center of Morgan Island
RT00544	Creek	32.64661	79.98795	3.4	07/12/2000	Charleston	R<1	Folly River in Cole Creek
RT00545	Creek	33.84368	78.60655	2.1	08/16/2000	Horry	R<1	Town of Cherry Grove Beach near mouth of Hog Inlet
RT00546	Creek	32.18082	80.82148	3.0	08/01/2000	Beaufort	R>1	Calibogue Sound in Bryan Creek
RT00547	Creek	32.58328	80.18727	2.0	07/25/2000	Charleston	NDV	North Edisto River in Privateer Creek
RT00548	Creek	32.43314	80.60137	0.9	06/27/2000	Beaufort	R>1	Morgan River in creek on Dataw Island
RT00549	Creek	32.86501	79.92186	1.0	07/11/2000	Berkeley	R<1	Cooper River in Beresford Creek
RT00550	Creek	33.56575	79.02095	3.0	08/16/2000	Georgetown	R<1	Murrell's Inlet in upper reach
RT00554	Creek	32.15584	80.95174	2.7	08/02/2000	Jasper	I>1	New River behind Daufuskie Island in upper reach
RT00556	Creek	32.31152	80.91724	2.1	08/02/2000	Beaufort	R<1	Okatie River in creek off upper part
RT00557	Creek	32.50571	80.75797	1.0	07/05/2000	Beaufort	R>1	Whale Branch in Middle Creek
RT00558	Creek	33.04655	79.53497	3.0	07/18/2000	Charleston	R<1	Bull Bay, creek off Intracoastal Waterway

Appendix 2.1. Summary of basic water quality data obtained from instanteous and 25 hr continuous time series deployments of water quality meters at sites sampled in 1999 and 2000. Parameters measured included depth, temperature, dissolved oxygen, salinity, and pH. ND = No Data.

SCECAP 1999 Water Quality
25Hr and Instantaneous Records
Temperature

Open Water

Station	depth (m*)	Continuous Temperature (celsius) mean	min	max	range	Instantaneous Temperature (celsius) surf	bott	diff.
RO99301	2.0	29.1	28.5	30.0	1.5	28.8	28.7	0.1
RO99302	10.0	29.8	29.5	30.1	0.6	29.7	29.6	0.1
RO99303	1.0	30.9	30.2	32.2	2.0	31.6	31.5	0.1
RO99304	2.5	30.5	29.8	31.6	1.8	29.8	29.8	0.0
RO99305	10.0	29.6	29.1	30.7	1.6	29.1	29.1	0.0
RO99306	2.0	29.1	28.5	30.0	1.6	29.0	28.9	0.1
RO99307	2.0	27.0	26.3	27.6	1.3	27.8	27.9	0.1
RO99308	10.0	31.8	31.0	32.4	1.4	31.5	31.6	0.1
RO99309	5.0	32.1	31.4	32.8	1.4	32.0	32.1	0.1
RO99310	5.0	30.8	30.0	31.5	1.4	30.6	30.7	0.1
RO99311	3.0	27.5	26.8	28.2	1.4	27.2	27.2	0.0
RO99312	6.0	30.4	29.6	31.4	1.8	29.2	29.2	0.0
RO99313	2.0	32.8	31.4	33.5	2.0	32.3	32.3	0.0
RO99315	3.0	32.9	32.2	34.0	1.8	33.1	32.7	0.4
RO99316	3.5	30.7	30.5	30.9	0.4	30.5	30.6	0.1
RO99317	5.3	28.8	28.2	29.4	1.2	28.9	28.8	0.1
RO99318	4.0	31.6	30.7	32.8	2.1	31.9	31.9	0.0
RO99319	5.0	31.8	31.0	33.2	2.2	31.6	31.7	0.1
RO99320	10.0	31.3	30.9	33.2	2.3	31.3	31.0	0.3
RO99321	2.0	30.6	30.3	31.2	0.9	30.2	30.3	0.1
RO99322	2.5	28.0	27.8	28.4	0.6	27.5	27.7	0.2
RO99323	2.0	31.1	30.5	31.9	1.4	31.6	31.5	0.1
RO99324	5.0	30.4	29.5	31.1	1.7	29.9	29.3	0.6
RO99325	6.0	29.4	29.1	30.0	0.9	29.3	29.1	0.2
RO99326	2.0	25.2	24.4	25.6	1.2	24.7	24.8	0.1
RO99327	2.0	29.2	28.9	29.9	0.9	29.3	29.3	0.0
RO99328	7.0	30.7	30.2	31.4	1.2	30.8	30.9	0.1
RO99329	5.0	30.9	30.4	31.5	1.1	30.5	30.3	0.2
RO99330	4.0	31.8	31.3	32.6	1.3	31.9	31.6	0.3
Mean	**4.4**	**30.2**	**29.6**	**31.0**	**1.4**	**30.1**	**30.0**	**0.1**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Temperature (celsius) mean	min	max	range	Instantaneous Temperature (celsius) surf	bott	diff.
RT99001	4.0	27.5	26.7	29.0	2.3	27.6	27.7	0.1
RT99002	1.5	25.4	23.2	26.5	3.3	25.9	25.9	0.0
RT99003	4.5	28.8	28.2	30.7	2.5	28.0	28.1	0.1
RT99004	1.3	29.2	28.7	31.0	2.3	29.0	29.1	0.1
RT99005	1.0	31.1	30.2	31.8	1.6	30.1	30.1	0.0
RT99006	1.0	28.9	27.8	30.1	2.3	28.6	28.6	0.0
RT99007	3.3	29.8	29.0	30.9	1.9	29.4	29.3	0.1
RT99008	2.8	29.1	28.1	31.4	3.3	30.2	30.2	0.0
RT99009	2.0	31.7	31.0	32.2	1.2	31.2	31.4	0.2
RT99010	2.0	32.5	30.7	33.6	2.8	31.9	32.0	0.1
RT99012	4.0	31.2	29.4	32.9	3.5	29.9	29.9	0.0
RT99013	3.0	29.5	29.0	30.4	1.4	28.2	28.2	0.0
RT99017	1.1	29.9	28.3	31.5	3.3	28.2	28.1	0.1
RT99019	2.0	32.1	31.2	33.8	2.6	31.9	31.8	0.1
RT99021	1.5	29.2	27.9	30.2	2.3	28.2	28.3	0.1
RT99022	2.0	32.4	31.7	34.6	2.9	30.7	30.6	0.1
RT99024	3.0	32.6	31.2	33.5	2.3	32.4	32.6	0.2
RT99026	2.0	27.5	26.8	28.8	2.0	27.7	27.8	0.1
RT99027	2.5	29.9	29.2	30.7	1.6	28.7	28.7	0.0
RT99028	3.0	30.9	29.8	32.2	2.4	30.0	30.0	0.0
RT99029	1.0	31.7	30.6	33.2	2.6	32.8	32.6	0.2
RT99030	1.3	31.4	30.6	33.6	3.0	32.0	31.6	0.4
RT99036	2.0	27.4	26.2	28.4	2.1	28.2	28.2	0.0
RT99037	2.0	29.3	28.2	30.4	2.1	29.2	29.3	0.1
RT99038	2.0	30.8	29.9	31.7	1.8	30.0	30.1	0.1
RT99039	3.0	31.1	30.5	32.6	2.1	30.7	30.8	0.1
RT99040	4.0	31.3	30.1	33.9	3.8	30.7	30.6	0.1
Mean	**2.3**	**30.1**	**29.0**	**31.5**	**2.4**	**29.7**	**29.7**	**0.1**

*Depth is water depth at station in meters

SCECAP 2000 Water Quality
25Hr and Instantaneous Records
Temperature

Open Water

Station	depth (m*)	Continuous Temperature (celsius) mean	min	max	range	Instantaneous Temperature (celsius) surf	bott	diff.
RO00006	4.0	29.0	28.6	29.7	1.1	29.2	29.1	0.1
RO00007	15.0	30.3	29.8	30.6	0.8	29.2	29.1	0.1
RO00008	4.3	29.3	28.8	29.6	0.8	29.3	29.4	0.1
RO00009	2.1	29.2	28.8	30.0	1.2	29.3	29.0	0.3
RO00010	6.4	28.9	28.6	29.2	0.6	29.2	28.7	0.5
RO00015	1.0	29.1	28.6	29.4	0.8	28.4	28.5	0.1
RO00016	2.1	30.6	29.8	31.9	2.2	31.5	31.5	0.0
RO00017	5.5	29.1	28.6	29.5	0.9	28.6	28.7	0.1
RO00018	8.2	29.4	29.1	29.7	0.6	29.2	29.2	0.0
RO00019	3.0	30.4	29.1	33.0	3.9	29.8	29.6	0.2
RO00020	3.0	29.3	29.0	29.6	0.5	28.9	29.0	0.1
RO00021	1.0	29.7	29.3	30.2	0.8	28.9	28.9	0.0
RO00022	10.0	29.0	28.7	29.2	0.5	28.8	28.9	0.1
RO00023	5.2	29.5	29.2	29.8	0.6	29.2	32.1	2.9
RO00024	10.1	29.0	28.7	29.3	0.7	29.0	29.0	0.0
RO00033	1.2	30.2	28.8	31.5	2.7	31.4	31.3	0.1
RO00034	4.5	29.6	29.2	30.0	0.8	29.2	29.3	0.1
RO00035	7.0	29.4	28.9	30.4	1.5	28.9	29.6	0.7
RO00036	7.0	29.8	29.3	30.7	1.4	29.6	29.4	0.2
RO00037	1.8	28.5	27.6	29.1	1.5	29.0	29.0	0.0
RO00045	3.0	29.9	29.4	30.4	1.0	29.4	29.5	0.1
RO00046	7.0	29.5	29.1	29.7	0.6	29.5	29.5	0.0
RO00047	10.4	28.6	28.2	29.0	0.8	28.6	28.6	0.0
RO00048	6.7	29.2	28.9	29.9	1.0	29.2	29.1	0.1
RO00049	2.7	28.7	28.5	29.0	0.5	28.8	28.8	0.0
RO00055	5.0	29.6	28.4	30.5	2.1	29.6	29.6	0.0
RO00056	6.4	28.9	28.7	29.2	0.5	29.1	28.7	0.6
RO00057	6.1	29.8	29.4	30.5	1.1	29.8	29.6	0.2
RO00058	5.5	29.6	29.1	30.5	1.3	30.9	29.2	1.7
RO00059	4.9	30.4	29.9	31.1	1.3	30.4	30.3	0.1
Mean	**5.3**	**29.4**	**28.9**	**30.1**	**1.1**	**29.4**	**29.4**	**0.3**

***Depth is water depth at station in meters**

Tidal Creeks

Station	depth (m*)	Continuous Temperature (celsius) mean	min	max	range	Instantaneous Temperature (celsius) surf	bott	diff.
RT00501	3.0	30.5	29.5	33.0	3.5	32.5	32.3	0.2
RT00502	6.1	28.7	28.1	29.6	1.4	28.1	28.1	0.0
RT00503	1.2	29.5	27.7	30.4	2.6	28.5	29.1	0.6
RT00504	1.2	29.4	28.6	29.9	1.3	29.5	29.3	0.2
RT00505	4.3	30.8	29.8	31.9	2.1	30.8	30.7	0.1
RT00517	1.2	29.5	28.6	31.3	2.7	31.1	30.9	0.2
RT00518	0.6	28.7	26.9	30.0	3.1	25.7	25.7	0.0
RT00519	1.0	30.5	29.5	32.9	3.4	31.9	32.0	0.1
RT00520	3.7	30.6	29.5	32.1	2.6	31.2	31.1	0.1
RT00521	1.0	30.6	29.8	31.6	1.8	30.7	30.3	0.6
RT00523	1.0	28.9	27.6	29.8	2.2	26.9	26.9	0.0
RT00525	2.1	30.5	29.1	32.3	3.3	30.3	30.3	0.0
RT00526	1.0	29.6	29.3	30.1	0.8	29.6	29.5	0.1
RT00528	1.0	29.4	28.5	32.5	4.0	28.4	28.5	0.1
RT00530	1.2	30.6	28.6	34.0	5.4	32.3	32.3	0.0
RT00531	3.4	29.6	28.8	30.2	1.4	28.9	28.7	0.2
RT00541	5.0	30.1	29.4	31.7	2.3	30.5	30.4	0.1
RT00542	0.6	29.8	28.5	31.8	3.3	30.4	30.4	0.0
RT00543	0.9	29.6	29.1	30.0	0.9	29.2	29.5	0.3
RT00544	3.4	29.4	28.8	30.4	1.6	28.7	28.8	0.1
RT00545	2.1	28.4	27.1	29.7	2.6	28.0	28.0	0.0
RT00546	3.0	30.0	29.4	31.3	1.9	30.0	29.7	0.3
RT00547	2.0	29.4	27.4	30.7	3.3	26.0	27.5	1.5
RT00548	0.9	29.0	27.4	30.3	2.9	28.1	28.2	0.1
RT00549	1.0	29.9	29.0	30.8	1.8	28.6	28.6	0.0
RT00550	3.0	29.4	28.3	31.2	3.0	29.0	28.9	0.1
RT00554	2.7	29.7	29.1	30.2	1.1	29.5	29.4	0.1
RT00556	2.1	30.7	29.1	32.7	3.6	30.5	30.5	0.0
RT00557	1.0	30.8	29.6	32.9	3.3	32.5	32.5	0.0
RT00558	3.0	30.6	29.8	31.5	1.7	30.9	30.6	0.3
Mean	**2.1**	**29.8**	**28.7**	**31.2**	**2.5**	**29.6**	**29.6**	**0.2**

***Depth is water depth at station in meters**

SCECAP 1999 Water Quality
25Hr and Instantaneous Records
Salinity

Open Water

Station	depth (m*)	Continuous Bottom salinity (ppt) mean	min	max	range	Instantaneous salinity (ppt) surf	bott	diff.
RO99301	2.0	20.5	19.7	21.0	1.3	20.7	20.7	0.0
RO99302	10.0	8.2	4.8	12.6	7.8	9.3	10.1	0.8
RO99303	1.0	32.0	30.7	33.3	2.6	32.2	32.2	0.0
RO99304	2.5	25.3	23.5	26.9	3.4	23.4	23.4	0.0
RO99305	10.0	30.2	29.5	30.6	1.1	29.2	29.4	0.2
RO99306	2.0	36.4	36.3	36.6	0.3	36.2	36.3	0.1
RO99307	2.0	3.0	0.4	10.9	10.5	3.2	3.3	0.1
RO99308	10.0	32.1	27.3	36.2	8.9	27.5	27.9	0.4
RO99309	5.0	25.4	24.6	26.1	1.5	24.6	24.6	0.0
RO99310	5.0	33.6	33.3	34.1	0.8	33.1	33.3	0.2
RO99311	3.0	30.5	24.9	34.6	9.7	33.5	33.5	0.0
RO99312	6.0	30.1	28.6	32.1	3.5	30.8	30.7	0.1
RO99313	2.0	22.8	22.6	23.1	0.5	22.7	22.7	0.0
RO99315	3.0	23.7	22.2	26.0	3.8	21.8	21.9	0.1
RO99316	3.5	17.1	14.4	20.7	6.3	8.5	16.0	7.5
RO99317	5.3	32.1	29.0	34.6	5.6	31.8	32.2	0.4
RO99318	4.0	28.3	25.9	31.2	5.3	25.6	25.7	0.1
RO99319	5.0	26.7	24.8	29.0	4.2	24.1	24.1	0.0
RO99320	10.0	29.7	28.4	30.7	2.3	29.1	29.3	0.2
RO99321	2.0	19.4	13.6	25.1	11.5	15.6	16.0	0.4
RO99322	2.5	23.0	19.3	27.2	7.9	22.5	22.9	0.4
RO99323	2.0	30.1	27.5	32.8	5.3	29.3	29.4	0.1
RO99324	5.0	26.4	24.4	27.3	2.9	25.1	26.7	1.6
RO99325	6.0	29.2	28.1	30.2	2.1	27.8	28.2	0.4
RO99326	2.0	29.0	24.4	34.7	10.3	25.5	25.6	0.1
RO99327	2.0	25.7	21.6	28.8	7.2	25.8	25.8	0.0
RO99328	7.0	32.9	31.1	34.8	3.7	33.0	33.0	0.0
RO99329	5.0	29.8	29.0	30.4	1.4	28.1	28.4	0.3
RO99330	4.0	27.2	26.2	29.1	2.9	25.6	25.8	0.2
Mean	**4.4**	**26.2**	**24.0**	**28.6**	**4.6**	**25.0**	**25.5**	**0.5**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom salinity (ppt) mean	min	max	range	Instantaneous salinity (ppt) surf	bott	diff.
RT99001	4.0	33.8	33.2	34.5	1.3	34.1	34.1	0.0
RT99002	1.5	35.7	34.7	36.3	1.6	35.3	35.2	0.4
RT99003	4.5	32.3	31.8	32.8	1.0	32.9	32.9	0.0
RT99004	1.3	34.3	33.7	35.4	1.7	33.5	33.5	0.0
RT99005	1.0	28.7	28.0	29.4	1.4	27.9	27.9	0.0
RT99006	1.0	32.3	29.0	35.5	6.5	31.4	31.4	0.0
RT99007	3.3	34.4	33.6	35.6	2.0	34.8	35.2	0.4
RT99008	2.8	32.1	31.3	33.0	1.7	31.4	31.4	0.0
RT99009	2.0	32.6	32.5	32.8	0.3	31.9	31.9	0.0
RT99010	2.0	24.6	23.5	26.1	2.6	23.8	23.7	0.1
RT99012	4.0	35.3	34.6	36.0	1.4	36.1	36.1	0.0
RT99013	3.0	33.6	33.2	34.2	1.0	32.7	32.6	0.1
RT99017	1.1	18.8	18.1	19.9	1.8	18.3	18.3	0.0
RT99019	2.0	31.5	31.0	32.6	1.6	30.7	30.8	0.1
RT99021	1.5	32.2	31.3	33.2	1.9	33.2	33.2	0.0
RT99022	2.0	30.1	27.5	33.2	5.7	28.4	28.4	0.0
RT99024	3.0	25.7	24.9	26.9	2.0	25.2	25.1	0.1
RT99026	2.0	32.9	32.3	33.7	1.4	32.5	32.4	0.1
RT99027	2.5	20.1	19.7	20.6	0.9	19.2	19.4	0.2
RT99028	3.0	35.9	35.7	36.1	0.4	35.8	35.8	0.0
RT99029	1.0	32.3	30.1	35.3	5.2	29.4	29.4	0.0
RT99030	1.3	32.8	32.4	33.0	0.6	28.3	28.8	0.5
RT99036	2.0	32.4	30.5	34.3	3.8	31.5	31.5	0.0
RT99037	2.0	20.3	16.2	21.5	5.3	21.2	21.2	0.0
RT99038	2.0	35.9	35.5	36.6	1.1	35.6	35.6	0.0
RT99039	3.0	34.2	33.1	35.5	2.4	29.9	34.3	4.4
RT99040	4.0	33.4	33.1	33.9	0.8	32.4	32.5	0.1
Mean	**2.3**	**31.1**	**30.0**	**32.1**	**2.1**	**30.3**	**30.5**	**0.2**

*Depth is water depth at station in meters

SCECAP 2000 Water Quality
25Hr and Instantaneous Records
Salinity

Open Water

Station	depth (m*)	Continuous Bottom salinity (ppt) mean	min	max	range	Instantaneous salinity (ppt) surf	bott	diff.
RO00006	4.0	29.2	14.5	35.8	21.3	16.8	17.1	0.3
RO00007	15.0	3.9	0.1	11.9	11.8	0.1	0.1	0.0
RO00008	4.3	33.0	32.6	33.7	1.1	32.1	32.1	0.0
RO00009	2.1	34.9	34.7	35.1	0.4	34.1	34.0	0.1
RO00010	6.4	34.8	34.4	35.1	0.7	34.2	34.3	0.1
RO00015	1.0	3.0	0.1	6.9	6.8	1.3	1.5	0.2
RO00016	2.1	36.7	36.3	37.0	0.7	35.9	35.8	0.1
RO00017	5.5	33.2	32.4	34.2	1.8	32.5	32.5	0.0
RO00018	8.2	32.7	32.3	33.3	1.0	31.9	31.9	0.0
RO00019	3.0	34.2	33.8	34.7	0.8	33.7	33.7	0.0
RO00020	3.0	9.8	6.6	14.1	7.5	3.9	8.7	4.8
RO00021	1.0	19.0	16.9	21.0	4.0	18.9	18.9	0.0
RO00022	10.0	35.8	34.1	37.3	3.2	35.5	35.6	0.0
RO00023	5.2	32.6	31.8	33.7	1.9	32.1	32.1	0.0
RO00024	10.1	33.9	33.7	34.1	0.4	33.5	33.5	0.0
RO00033	1.2	27.4	25.8	29.1	3.2	27.9	28.1	0.2
RO00034	4.5	2.1	0.2	7.1	6.9	0.9	1.3	0.4
RO00035	7.0	32.5	30.5	34.8	4.3	30.2	32.3	2.1
RO00036	7.0	33.3	33.1	33.7	0.6	32.3	32.5	0.2
RO00037	1.8	34.6	34.4	35.0	0.7	33.7	33.7	0.0
RO00045	3.0	32.9	31.5	33.7	2.2	32.6	32.6	0.0
RO00046	7.0	20.3	17.4	22.7	5.4	21.3	21.5	0.2
RO00047	10.4	33.6	33.2	33.9	0.7	33.0	33.1	0.1
RO00048	6.7	35.3	35.0	35.7	0.6	34.3	34.3	0.0
RO00049	2.7	33.9	33.6	34.2	0.6	33.2	33.1	0.1
RO00055	5.0	35.2	33.6	36.4	2.8	35.6	35.6	0.0
RO00056	6.4	22.9	17.9	26.9	9.0	17.3	19.1	1.8
RO00057	6.1	32.5	31.3	34.2	2.9	33.0	33.1	0.1
RO00058	5.5	33.6	33.1	34.1	1.0	31.9	31.9	0.0
RO00059	4.9	27.1	24.6	28.6	4.0	33.7	33.7	0.0
Mean	**5.3**	**28.1**	**26.3**	**29.9**	**3.6**	**26.9**	**27.3**	**0.4**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom salinity (ppt) mean	min	max	range	Instantaneous salinity (ppt) surf	bott	diff.
RT00501	3.0	30.0	28.5	31.3	2.8	30.3	30.2	0.1
RT00502	6.1	25.6	23.1	29.0	5.8	24.5	24.5	0.0
RT00503	1.2	34.7	31.2	36.8	5.6	32.4	33.9	1.5
RT00504	1.2	33.2	32.4	33.8	1.4	33.6	33.6	0.0
RT00505	4.3	36.2	35.7	36.7	1.0	36.0	36.1	0.1
RT00517	1.2	35.9	35.1	36.4	1.3	35.5	35.4	0.1
RT00518	0.6	28.6	26.6	33.7	7.2	15.3	15.3	0.0
RT00519	1.0	33.8	33.4	34.2	0.9	31.4	31.4	0.0
RT00520	3.7	35.3	34.0	36.1	2.1	35.8	35.9	0.1
RT00521	1.0	36.5	35.7	37.0	1.3	35.8	35.9	0.1
RT00523	1.0	33.1	31.6	35.2	3.6	30.1	30.1	0.0
RT00525	2.1	37.1	36.1	37.7	1.6	36.6	36.6	0.0
RT00526	1.0	5.5	2.2	11.1	8.9	2.4	2.5	0.1
RT00528	1.0	26.6	25.6	28.0	2.4	25.6	25.6	0.0
RT00530	1.2	36.6	35.8	37.0	1.3	36.8	36.8	0.0
RT00531	3.4	23.6	23.5	23.7	0.3	23.0	23.0	0.0
RT00541	5.0	34.5	33.6	35.2	1.7	34.0	33.9	0.1
RT00542	0.6	33.7	28.9	38.2	9.3	37.4	37.4	0.0
RT00543	0.9	31.8	31.0	32.6	1.7	31.7	31.7	0.0
RT00544	3.4	34.7	31.4	36.3	4.9	34.2	34.2	0.0
RT00545	2.1	36.5	36.1	37.0	0.9	37.1	37.1	0.0
RT00546	3.0	34.8	34.4	35.0	0.6	33.7	33.9	0.2
RT00547	2.0	34.7	31.1	37.1	6.0	24.0	30.3	6.3
RT00548	0.9	32.6	29.8	34.4	4.6	33.4	33.4	0.0
RT00549	1.0	16.3	11.9	18.6	6.6	18.1	18.1	0.0
RT00550	3.0	36.2	35.4	36.8	1.5	36.0	36.2	0.2
RT00554	2.7	23.9	20.8	27.1	6.3	26.5	26.6	0.1
RT00556	2.1	33.3	32.0	34.4	2.4	33.1	33.4	0.3
RT00557	1.0	33.9	33.6	34.1	0.5	32.8	32.8	0.0
RT00558	3.0	35.4	34.6	36.4	1.8	36.4	36.4	0.0
Mean	**2.1**	**31.5**	**29.8**	**33.0**	**3.2**	**30.5**	**30.7**	**0.3**

*Depth is water depth at station in meters

SCECAP 1999 Water Quality
25Hr and Instantaneous Records
Dissolved Oxygen

Open Water

Station	depth (m*)	Continuous Bottom Dissolved Oxygen (mg/l) mean	min	max	range	Instantaneous Dissolved Oxygen (mg/l) surf	bott	diff.
RO99301	2.0	5.4	0.8	7.8	7.0	4.6	4.5	0.1
RO99302	10.0	3.3	1.6	3.8	2.2	4.0	3.8	0.2
RO99303	1.0	4.9	3.3	6.2	2.8	4.2	3.9	0.3
RO99304	2.5	4.9	3.9	5.6	1.8	3.9	3.9	0.0
RO99305	10.0	6.0	4.5	7.5	3.0	4.4	4.4	0.1
RO99306	2.0	5.3	3.8	6.2	2.4	4.8	4.5	0.4
RO99307	2.0	4.9	3.1	5.8	2.8	4.5	4.6	0.1
RO99308	10.0	5.9	4.6	6.6	2.0	4.3	4.3	0.0
RO99309	5.0	4.9	3.4	6.2	2.8	4.2	4.2	0.0
RO99310	5.0	5.0	4.2	5.7	1.5	4.7	4.6	0.1
RO99311	3.0	4.5	3.8	5.4	1.6	4.8	4.9	0.1
RO99312	6.0	4.6	2.3	5.5	3.2	4.7	4.5	0.2
RO99313	2.0	ND	ND	ND	ND	4.0	4.2	0.2
RO99315	3.0	ND	ND	ND	ND	4.6	4.6	0.1
RO99316	3.5	3.7	1.5	4.7	3.3	3.8	3.5	0.2
RO99317	5.3	5.1	3.3	6.1	2.8	5.2	5.1	0.1
RO99318	4.0	4.8	3.1	6.3	3.1	3.8	3.9	0.1
RO99319	5.0	ND	ND	ND	ND	4.2	4.1	0.1
RO99320	10.0	4.4	3.3	5.6	2.3	4.9	4.6	0.3
RO99321	2.0	4.3	2.9	5.3	2.4	4.3	4.4	0.0
RO99322	2.5	6.5	5.4	7.4	2.0	4.9	4.9	0.0
RO99323	2.0	4.9	3.6	6.3	2.7	4.2	3.9	0.3
RO99324	5.0	3.8	1.8	5.2	3.4	4.2	3.7	0.5
RO99325	6.0	5.3	4.0	5.9	1.9	3.9	3.5	0.4
RO99326	2.0	5.6	3.8	6.6	2.8	5.5	5.5	0.0
RO99327	2.0	5.6	4.2	6.3	2.1	5.0	4.9	0.1
RO99328	7.0	4.6	1.9	5.2	3.2	4.4	4.3	0.1
RO99329	5.0	4.5	3.7	5.5	1.9	4.5	4.2	0.3
RO99330	4.0	3.7	2.0	5.1	3.1	4.3	3.6	0.7
Mean	**4.4**	**4.9**	**3.2**	**5.9**	**2.7**	**4.4**	**4.3**	**0.2**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom Dissolved Oxygen (mg/l) mean	min	max	range	Instantaneous Dissolved Oxygen (mg/l) surf	bott	diff.
RT99001	4.0	3.9	2.4	5.5	3.2	3.1	3.2	0.1
RT99002	1.5	5.4	3.5	6.1	2.6	6.3	6.3	0.0
RT99003	4.5	3.7	1.6	5.9	4.4	3.7	3.7	0.1
RT99004	1.3	3.7	1.1	5.6	4.5	2.7	2.7	0.0
RT99005	1.0	4.0	1.9	5.8	3.9	3.9	4.0	0.1
RT99006	1.0	4.8	2.6	6.9	4.3	3.4	3.2	0.2
RT99007	3.3	4.0	2.2	6.1	3.9	3.5	3.2	0.3
RT99008	2.8	ND	ND	ND	ND	5.1	4.7	0.4
RT99009	2.0	2.5	0.4	4.0	3.6	2.6	2.7	0.0
RT99010	2.0	4.5	2.4	5.9	3.5	2.4	2.4	0.0
RT99012	4.0	3.9	1.7	5.4	3.7	3.2	3.1	0.0
RT99013	3.0	3.7	1.7	5.0	3.3	3.9	3.9	0.0
RT99017	1.1	5.5	3.4	8.3	4.9	2.1	2.1	0.0
RT99019	2.0	4.0	1.9	6.6	4.7	3.5	3.6	0.2
RT99021	1.5	3.9	2.1	5.7	3.5	3.5	3.6	0.1
RT99022	2.0	3.5	0.8	5.9	5.1	3.7	3.7	0.1
RT99024	3.0	3.5	1.6	4.4	2.8	2.6	2.6	0.0
RT99026	2.0	2.7	1.2	3.7	2.5	2.6	2.6	0.0
RT99027	2.5	4.7	2.6	6.4	3.8	3.3	3.2	0.1
RT99028	3.0	4.5	0.9	6.2	5.4	3.4	3.3	0.1
RT99029	1.0	ND	ND	ND	ND	4.1	4.0	0.1
RT99030	1.3	3.7	1.5	5.7	4.2	4.3	4.1	0.3
RT99036	2.0	4.0	2.6	5.7	3.1	3.2	3.0	0.2
RT99037	2.0	3.1	1.3	4.6	3.2	3.2	3.1	0.0
RT99038	2.0	4.8	2.8	5.7	3.0	3.9	4.0	0.1
RT99039	3.0	3.6	0.0	6.1	6.0	4.0	4.0	0.0
RT99040	4.0	4.4	0.3	7.4	7.2	4.1	4.1	0.1
Mean	**2.3**	**4.0**	**1.8**	**5.8**	**4.0**	**3.5**	**3.5**	**0.1**

*Depth is water depth at station in meters

SCECAP 2000 Water Quality
25Hr and Instantaneous Records
Dissolved Oxygen

Open Water

Station	depth (m*)	Continuous Bottom Dissolved Oxygen (mg/l) mean	min	max	range	Instantaneous Dissolved Oxygen (mg/l) surf	bott	diff.
RO00006	4.0	5.4	4.8	6.1	1.3	5.9	5.8	0.1
RO00007	15.0	5.0	3.9	6.0	2.1	6.8	6.7	0.1
RO00008	4.3	5.2	4.4	6.3	1.9	4.3	4.2	0.1
RO00009	2.1	4.2	3.6	4.8	1.2	4.6	4.4	0.2
RO00010	6.4	6.0	5.4	6.5	1.1	5.7	5.6	0.1
RO00015	1.0	4.5	4.2	4.9	0.7	4.8	4.5	0.3
RO00016	2.1	4.7	3.8	7.1	3.4	6.6	6.5	0.1
RO00017	5.5	5.6	5.1	6.4	1.4	5.3	5.0	0.3
RO00018	8.2	5.3	4.9	5.9	1.0	5.0	5.0	0.0
RO00019	3.0	4.6	2.9	6.0	3.1	3.8	3.8	0.0
RO00020	3.0	4.5	3.8	5.4	1.6	4.7	4.1	0.6
RO00021	1.0	5.8	4.9	7.2	2.3	5.6	5.6	0.0
RO00022	10.0	5.7	5.0	6.3	1.4	5.4	5.5	0.1
RO00023	5.2	5.3	5.0	5.8	0.8	4.5	4.5	0.0
RO00024	10.1	5.0	4.5	5.6	1.1	4.3	4.4	0.1
RO00033	1.2	6.1	4.7	7.9	3.2	7.5	7.5	0.0
RO00034	4.5	4.1	3.7	4.6	0.9	4.1	3.9	0.2
RO00035	7.0	4.2	3.5	5.6	2.1	4.0	4.0	0.0
RO00036	7.0	5.3	4.5	5.8	1.3	5.1	5.0	0.1
RO00037	1.8	6.1	5.3	7.6	2.3	6.5	6.4	0.1
RO00045	3.0	4.8	4.1	5.7	1.6	4.3	4.2	0.1
RO00046	7.0	4.1	3.9	4.3	0.4	3.9	3.8	0.1
RO00047	10.4	5.3	4.5	5.7	1.2	5.5	5.3	0.2
RO00048	6.7	5.3	4.2	5.8	1.6	5.3	5.2	0.1
RO00049	2.7	5.6	4.9	6.0	1.0	5.6	5.5	0.1
RO00055	5.0	4.8	3.2	6.8	3.6	3.7	3.5	0.2
RO00056	6.4	4.8	4.1	6.0	1.9	6.2	5.2	1.0
RO00057	6.1	3.9	3.3	4.9	1.5	3.7	3.6	0.1
RO00058	5.5	4.9	4.0	5.8	1.8	6.8	6.2	0.6
RO00059	4.9	4.6	3.7	5.9	2.2	4.2	4.2	0.0
Mean	**5.3**	**5.0**	**4.3**	**6.0**	**1.7**	**5.1**	**5.0**	**0.2**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom Dissolved Oxygen (mg/l) mean	min	max	range	Instantaneous Dissolved Oxygen (mg/l) surf	bott	diff.
RT00501	3.0	4.0	2.2	5.8	3.6	4.8	4.7	0.1
RT00502	6.1	3.2	2.8	4.1	1.2	3.1	3.0	0.1
RT00503	1.2	3.8	2.4	4.8	2.5	4.7	4.4	0.3
RT00504	1.2	3.8	2.9	4.8	1.8	3.0	2.8	0.2
RT00505	4.3	3.9	1.9	6.5	4.6	4.0	4.0	0.0
RT00517	1.2	4.2	3.0	5.1	2.1	5.6	5.6	0.0
RT00518	0.6	2.9	0.4	4.8	4.5	2.9	2.9	0.0
RT00519	1.0	4.5	3.5	5.2	1.7	4.8	4.7	0.1
RT00520	3.7	4.8	3.9	5.9	2.0	4.6	4.4	0.2
RT00521	1.0	4.6	3.4	5.9	2.5	4.2	3.7	0.5
RT00523	1.0	3.6	1.9	5.3	3.4	2.2	2.0	0.2
RT00525	2.1	3.5	1.2	4.9	3.7	3.2	3.1	0.1
RT00526	1.0	4.2	3.8	4.6	0.8	4.2	4.2	0.0
RT00528	1.0	4.1	3.3	6.0	2.7	4.0	4.0	0.0
RT00530	1.2	4.7	2.1	6.4	4.3	5.1	5.2	0.1
RT00531	3.4	5.0	4.1	6.6	2.5	4.6	4.1	0.5
RT00541	5.0	4.6	3.0	6.1	3.0	4.4	4.3	0.1
RT00542	0.6	3.7	1.6	6.4	4.8	2.5	2.5	0.0
RT00543	0.9	4.3	3.0	6.1	3.2	4.2	4.1	0.1
RT00544	3.4	4.3	2.7	6.2	3.5	3.3	3.4	0.1
RT00545	2.1	5.5	3.6	6.4	2.8	5.1	5.1	0.0
RT00546	3.0	3.9	2.5	5.1	2.6	5.3	5.5	0.2
RT00547	2.0	3.9	2.1	5.6	3.5	3.5	2.6	0.9
RT00548	0.9	0.6	0.1	3.5	3.4	2.3	2.3	0.0
RT00549	1.0	4.9	3.2	6.7	3.5	4.0	4.0	0.0
RT00550	3.0	5.2	3.6	6.2	2.6	5.2	5.4	0.2
RT00554	2.7	3.8	3.4	4.1	0.7	3.5	3.7	0.2
RT00556	2.1	4.6	3.3	6.7	3.4	4.5	4.4	0.1
RT00557	1.0	4.9	3.0	5.9	2.9	6.0	5.9	0.1
RT00558	3.0	4.5	2.8	6.8	4.0	4.3	3.5	0.8
Mean	**2.1**	**4.1**	**2.7**	**5.6**	**2.9**	**4.1**	**4.0**	**0.2**

*Depth is water depth at station in meters

SCECAP 1999 Water Quality
25Hr and Instantaneous Records
pH

Open Water

Station	depth (m*)	Continuous Bottom pH mean	min	max	range	Hanna pH surf
RO99301	2.0	7.7	7.4	7.9	0.5	7.4
RO99302	10.0	6.8	6.7	7.0	0.3	7.2
RO99303	1.0	7.8	7.6	8.1	0.5	7.7
RO99304	2.5	7.4	7.2	7.4	0.2	7.3
RO99305	10.0	7.7	7.5	7.9	0.3	7.6
RO99306	2.0	8.0	7.8	8.1	0.4	7.9
RO99307	2.0	6.7	6.5	7.8	1.3	6.8
RO99308	10.0	7.8	7.5	8.0	0.5	7.7
RO99309	5.0	7.6	7.4	7.7	0.3	7.6
RO99310	5.0	7.8	7.7	7.9	0.3	7.7
RO99311	3.0	7.6	7.3	7.9	0.6	7.9
RO99312	6.0	7.7	7.5	7.9	0.3	7.7
RO99313	2.0	7.5	7.4	7.6	0.2	7.3
RO99315	3.0	7.4	7.2	7.5	0.3	7.4
RO99316	3.5	7.4	7.1	7.6	0.5	7.2
RO99317	5.3	7.8	7.7	7.9	0.3	7.8
RO99318	4.0	7.6	7.4	7.8	0.4	7.5
RO99319	5.0	7.5	7.4	7.7	0.3	7.5
RO99320	10.0	7.8	7.7	8.0	0.3	7.7
RO99321	2.0	7.5	7.2	7.7	0.4	7.3
RO99322	2.5	7.8	7.5	7.9	0.4	7.7
RO99323	2.0	7.7	7.4	7.9	0.5	7.6
RO99324	5.0	7.4	7.1	7.5	0.4	7.3
RO99325	6.0	7.6	7.3	7.7	0.4	7.4
RO99326	2.0	7.8	7.7	8.0	0.3	7.7
RO99327	2.0	7.7	7.5	7.8	0.3	7.6
RO99328	7.0	7.8	7.7	8.0	0.4	7.6
RO99329	5.0	7.5	7.4	7.6	0.2	7.5
RO99330	4.0	7.4	7.3	7.7	0.4	7.5
Mean	**4.4**	**7.6**	**7.4**	**7.8**	**0.4**	**7.5**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom pH mean	min	max	range	Hanna pH surf
RT99001	4.0	7.6	7.4	7.9	0.5	7.6
RT99002	1.5	7.9	7.6	8.1	0.5	8.0
RT99003	4.5	7.5	7.3	7.8	0.5	7.5
RT99004	1.3	7.6	7.3	8.0	0.7	7.7
RT99005	1.0	7.5	7.3	7.7	0.4	7.4
RT99006	1.0	7.8	7.5	8.1	0.6	7.5
RT99007	3.3	7.6	7.4	7.7	0.3	7.6
RT99008	2.8	7.5	7.3	7.6	0.3	7.6
RT99009	2.0	7.3	7.1	7.4	0.4	7.4
RT99010	2.0	7.4	7.0	7.6	0.6	7.2
RT99012	4.0	7.5	7.3	7.7	0.4	7.5
RT99013	3.0	7.6	7.4	7.9	0.5	7.6
RT99017	1.1	7.4	7.1	7.7	0.6	7.0
RT99019	2.0	7.4	7.2	7.8	0.6	7.5
RT99021	1.5	7.6	7.4	7.9	0.5	7.6
RT99022	2.0	7.6	7.2	8.1	0.9	7.5
RT99024	3.0	7.4	7.0	7.6	0.5	7.1
RT99026	2.0	7.3	7.1	7.6	0.5	7.2
RT99027	2.5	7.3	7.2	7.5	0.3	7.1
RT99028	3.0	7.7	7.5	7.9	0.4	7.6
RT99029	1.0	7.6	7.2	8.0	0.8	7.4
RT99030	1.3	7.5	7.3	7.7	0.4	7.6
RT99036	2.0	7.5	7.2	7.9	0.8	7.3
RT99037	2.0	7.1	7.0	7.4	0.4	7.2
RT99038	2.0	7.8	7.6	8.0	0.4	7.7
RT99039	3.0	7.7	7.3	8.0	0.7	7.8
RT99040	4.0	7.5	7.3	7.6	0.4	7.5
Mean	**2.3**	**7.5**	**7.3**	**7.8**	**0.5**	**7.5**

*Depth is water depth at station in meters

SCECAP 2000 Water Quality
25Hr and Instantaneous Records
pH

Open Water

Station	depth (m*)	Continuous Bottom pH mean	min	max	range	Hanna pH surf
RO00006	4.0	7.9	7.7	8.0	0.3	7.0
RO00007	15.0	6.9	6.4	7.1	0.7	7.7
RO00008	4.3	7.7	7.5	7.9	0.4	7.5
RO00009	2.1	7.5	7.4	7.7	0.2	7.7
RO00010	6.4	7.9	7.8	8.0	0.3	8.0
RO00015	1.0	7.0	6.8	7.2	0.4	7.0
RO00016	2.1	7.5	7.4	7.7	0.3	7.7
RO00017	5.5	7.6	7.5	7.8	0.3	7.9
RO00018	8.2	7.6	7.5	7.7	0.2	7.7
RO00019	3.0	7.4	7.3	7.6	0.3	7.6
RO00020	3.0	7.2	7.0	7.5	0.5	8.3
RO00021	1.0	7.5	7.4	7.7	0.3	7.6
RO00022	10.0	7.9	7.8	8.1	0.3	8.1
RO00023	5.2	7.6	7.6	7.7	0.2	7.7
RO00024	10.1	7.6	7.5	7.8	0.3	7.6
RO00033	1.2	8.0	7.8	8.1	0.3	8.1
RO00034	4.5	6.7	6.6	7.2	0.6	7.4
RO00035	7.0	7.6	7.4	7.9	0.5	7.7
RO00036	7.0	7.6	7.5	7.7	0.3	7.6
RO00037	1.8	7.8	7.7	8.0	0.3	7.9
RO00045	3.0	7.5	7.4	7.6	0.2	7.6
RO00046	7.0	7.1	7.0	7.2	0.2	7.4
RO00047	10.4	7.7	7.6	7.8	0.2	7.7
RO00048	6.7	7.7	7.5	7.8	0.3	7.8
RO00049	2.7	7.7	7.6	7.8	0.2	7.8
RO00055	5.0	7.8	7.5	8.1	0.6	7.7
RO00056	6.4	7.5	7.4	7.6	0.2	7.8
RO00057	6.1	7.3	7.2	7.6	0.4	7.0
RO00058	5.5	7.6	7.3	7.8	0.5	7.8
RO00059	4.9	7.5	7.4	7.8	0.5	6.9
Mean	**5.3**	**7.5**	**7.4**	**7.7**	**0.3**	**7.6**

*Depth is water depth at station in meters

Tidal Creeks

Station	depth (m*)	Continuous Bottom pH mean	min	max	range	Hanna pH surf
RT00501	3.0	7.5	7.2	7.7	0.6	7.4
RT00502	6.1	7.0	6.9	7.3	0.3	7.0
RT00503	1.2	7.7	7.4	8.0	0.6	7.0
RT00504	1.2	7.3	7.2	7.4	0.2	8.8
RT00505	4.3	7.5	7.2	7.9	0.7	7.4
RT00517	1.2	7.7	7.4	8.0	0.5	7.6
RT00518	0.6	7.2	7.1	7.4	0.4	7.0
RT00519	1.0	7.2	7.1	7.4	0.3	7.4
RT00520	3.7	7.7	7.6	7.8	0.3	7.8
RT00521	1.0	7.5	7.4	7.7	0.3	7.3
RT00523	1.0	7.4	7.1	7.8	0.7	7.5
RT00525	2.1	7.4	7.2	7.7	0.5	7.5
RT00526	1.0	6.9	6.8	7.4	0.6	7.0
RT00528	1.0	7.2	7.1	7.5	0.4	7.2
RT00530	1.2	7.7	7.4	8.0	0.6	7.8
RT00531	3.4	7.4	7.2	7.7	0.4	7.4
RT00541	5.0	7.7	7.5	7.9	0.5	7.0
RT00542	0.6	7.5	7.2	7.8	0.6	7.5
RT00543	0.9	7.4	7.3	7.7	0.5	7.6
RT00544	3.4	7.8	7.5	8.0	0.5	7.7
RT00545	2.1	7.9	7.7	8.0	0.3	8.0
RT00546	3.0	7.5	7.3	7.8	0.5	6.9
RT00547	2.0	7.5	7.2	7.9	0.8	7.5
RT00548	0.9	7.2	7.0	7.4	0.4	7.3
RT00549	1.0	7.3	7.1	7.7	0.6	7.4
RT00550	3.0	7.8	7.6	7.9	0.3	7.9
RT00554	2.7	7.1	7.0	7.2	0.2	7.2
RT00556	2.1	7.2	7.1	7.4	0.3	7.0
RT00557	1.0	7.4	7.2	7.6	0.3	7.6
RT00558	3.0	7.3	7.1	7.6	0.6	7.5
Mean	**2.1**	**7.4**	**7.2**	**7.7**	**0.5**	**7.4**

*Depth is water depth at station in meters

Appendix 2.2. Summary of total nutrient and Chlorophyll a concentrations at sites sampled in 1999 and 2000. All laboratory analyses were completed by SCDHEC using their standard laboratory protocols. Values = 0 are below the instrument detection limit.

SCECAP 1999 Water Quality
Total Nutrients -- Open Water

Station	Total Ammonia Nitrogen mg/l as N	Nitrate + Nitrite mg/l as N	Total Kjedahl Nitrogen mg/l as N	Total Nitrogen mg/l as N	Total Phosphorus mg/l as P	Chl-a (Fluorometer) µg/l
RO99301		0.00	0.37	0.37	0.05	12.1
RO99302	0.00	**0.16**	0.82	**0.98**	0.09	11.1
RO99303	0.00	0.03	**1.06**	**1.09**	**0.10**	9.2
RO99304	0.00	0.03	0.57	0.60	0.07	7.0
RO99305	0.00	0.04	0.57	0.61	0.09	4.5
RO99306					**0.13**	8.2
RO99307	0.11	0.00	0.81	0.81	0.06	**22.6**
RO99308	0.00	0.00	0.00	0.00	0.07	9.4
RO99309	0.00	0.00	0.40	0.40	0.08	9.6
RO99310	0.00	0.10	0.55	0.65	**0.14**	9.5
RO99311	**0.43**	0.04	0.64	0.68	0.00	7.6
RO99312		0.00	0.00	0.00	0.08	8.1
RO99313	0.00	0.00	0.75	0.75	**0.16**	17.1
RO99315	**0.48**	0.00	0.67	0.67	**0.11**	**21.9**
RO99316	0.16	0.11			0.06	13.7
RO99317		0.00	0.00	0.00	**0.10**	10.1
RO99318	0.00	0.00	0.28	0.28	0.07	9.8
RO99319	0.00	0.00	0.53	0.53	0.08	9.7
RO99320	0.00	0.00	0.48	0.48	0.00	6.9
RO99321	0.11	0.08			0.08	9.2
RO99322		0.00	0.41	0.41	0.05	6.4
RO99323	0.00	0.00	0.38	0.38	0.00	10.2
RO99324	0.00	0.03	0.54	0.57	0.08	7.4
RO99325	0.00	0.04	0.55	0.59	0.00	4.0
RO99326	0.00	0.09	0.29	0.38	0.06	6.7
RO99327		0.07	0.33	0.40	0.08	13.7
RO99328	0.00	0.00	0.62	0.62	**0.10**	11.6
RO99329	0.00	0.04	0.42	0.46	0.09	5.8
RO99330	0.00	0.00	0.60	0.60	**0.15**	15.5
Mean	**0.06**	**0.03**	**0.49**	**0.51**	**0.08**	**10.3**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a). Shading for Chl-a represents High >20 µg/l (Bricker et al. 1999).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997. (SCDHEC 1998a)

SCECAP 1999 Water Quality
Total Nutrients -- Tidal Creeks

Station	Total Ammonia Nitrogen mg/l as N	Nitrate + Nitrite mg/l as N	Total Kjedahl Nitrogen mg/l as N	Total Nitrogen mg/l as N	Total Phosphorus mg/l as P	Chl-a (Fluorometer) µg/l
RT99001	**0.75**	0.00	**1.27**	**1.27**	**0.12**	10.7
RT99002	0.00	0.00	0.49	0.49	0.07	5.9
RT99003	**0.45**	0.03	0.64	0.67	0.00	6.2
RT99004	0.00	0.00	**1.12**	**1.12**	**0.11**	12.4
RT99005	0.00	0.04	0.59	0.63	**0.12**	6.2
RT99006	0.00	0.04	**0.82**	0.86	**0.16**	**23.1**
RT99007	0.00	0.00	**1.12**	**1.12**	**0.10**	13.4
RT99008	**0.33**	0.00	0.80	0.80	**0.10**	7.0
RT99009	0.00	0.00	0.80	0.80	**0.10**	13.6
RT99010	0.00	0.00	0.57	0.57	**0.11**	10.2
RT99012	0.00	0.00	0.44	0.44	**0.10**	10.7
RT99013	**0.47**	0.00	0.79	0.79	0.00	7.9
RT99017	**0.46**	0.07	**0.82**	0.89	**0.11**	**43.0**
RT99019	0.00	0.00	0.70	0.70	0.07	**24.2**
RT99021		0.00	0.32	0.32	0.06	13.2
RT99022	0.00	0.00	0.53	0.53	**0.10**	4.7
RT99024	0.00	0.00	0.35	0.35	0.08	5.1
RT99026	**0.59**	0.04	**0.82**	0.86	0.00	10.9
RT99027	**0.59**		**0.83**		0.05	11.9
RT99028	0.00	0.00	0.21	0.21	**0.10**	10.2
RT99029	0.00	0.00	**0.84**	0.84	0.08	**33.8**
RT99030	0.00	0.00	0.35	0.35	**0.12**	19.9
RT99036	**0.84**	0.00	**1.21**	**1.21**	**0.13**	10.1
RT99037	0.23	0.04	0.40	0.44	**0.10**	7.8
RT99038	0.10	0.00	0.19	0.19	**0.23**	7.9
RT99039	0.00	0.00	0.54	0.54	**0.12**	8.2
RT99040	0.00	0.03	**1.02**	**1.05**	**0.11**	13.9
Mean	**0.19**	**0.01**	**0.69**	**0.69**	**0.09**	**13.05**

Shading represents values that are equal to or exceed 75th percentile of all detectable measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a). Shading for Chl-a represents High >20 µg/l (Bricker et al. 1999).

Shading represents values that are equal to or exceed 90th percentile of all detectable measurements collected by SCDHEC in saltwaters from 1993 - 1997. (SCDHEC 1998a)

SCECAP 2000 Water Quality
Total Nutrients -- Open Water

Station	Total Ammonia Nitrogen mg/l as N	Nitrate + Nitrite mg/l as N	Total Kjedahl Nitrogen mg/l as N	Total Nitrogen mg/l as N	Total Phosphorus mg/l as P	Chl-a (Fluorometer) µg/l
RO00006		0.11	0.51	0.62	0.04	16.0
RO00007	0.00	0.00	0.46	0.46	0.04	10.4
RO00008						8.6
RO00009	**0.30**	0.03	0.39	0.42	0.05	5.2
RO00010		0.00	0.36	0.36	0.05	5.1
RO00015	0.20	**0.20**	0.62	0.82	0.09	6.6
RO00016		0.00	0.46	0.46	0.07	15.5
RO00017	0.16	0.03	0.50	0.53	**0.11**	9.1
RO00018	0.11	0.04	0.42	0.46	0.09	5.0
RO00019		0.03	0.37	0.40	0.06	6.5
RO00020	**0.32**	**0.21**	0.62	0.83	0.08	6.7
RO00021		0.00	0.55	0.55	0.03	**30.8**
RO00022	0.20	0.04	0.35	0.39	0.05	11.2
RO00023	0.28	0.08	0.41	0.49	0.08	5.3
RO00024	0.09	0.00	0.34	0.34	0.03	5.8
RO00033	0.23	0.00	0.38	0.38	0.06	8.7
RO00034	0.18	0.14	0.61	0.75	0.08	15.0
RO00035	**0.48**	0.04	0.49	0.53	0.07	9.2
RO00036		0.03	0.48	0.51	0.08	7.8
RO00037	0.19	0.00	0.30	0.30	0.04	4.8
RO00045		**0.32**	0.51	0.83	0.07	9.2
RO00046	0.25	**0.15**	0.74	0.89	**0.10**	8.8
RO00047	0.22	0.03	0.29	0.32	0.04	4.6
RO00048	**0.59**	0.00	0.81	0.81	0.03	7.3
RO00049	0.19	0.00	0.31	0.31	0.04	5.5
RO00055		0.00	0.33	0.33	0.04	13.8
RO00056	**0.35**	0.05	0.43	0.48	0.05	5.7
RO00057	**0.32**	0.00	**1.04**	**1.04**	0.06	9.9
RO00058	**0.43**	0.03	0.58	0.61	**0.10**	7.5
RO00059		0.00	0.34	0.34	0.06	6.9
Mean	**0.25**	**0.05**	**0.48**	**0.54**	**0.06**	**9.1**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a). Shading for Chl-a represents High >20 µg/l (Bricker et al. 1999).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997. (SCDHEC 1998a)

SCECAP 2000 Water Quality
Total Nutrients -- Tidal Creeks

Station	Total Ammonia Nitrogen mg/l as N	Nitrate + Nitrite mg/l as N	Total Kjedahl Nitrogen mg/l as N	Total Nitrogen mg/l as N	Total Phosphorus mg/l as P	Chl-a (Fluorometer) µg/l
RT00501		0.06	0.48	0.54	**0.10**	14.9
RT00502	0.27	0.06	0.55	0.61	**0.20**	6.5
RT00503	**0.43**	0.04	0.46	0.50	0.06	9.0
RT00504						7.0
RT00505		0.00	0.53	0.53	0.06	14.0
RT00517	**0.42**	0.00	0.61	0.61	0.04	6.4
RT00518	**0.48**	0.07	**0.90**	**0.97**	**0.11**	**26.7**
RT00519	**0.58**	0.03	0.77	0.80	**0.10**	7.3
RT00520		0.00	0.35	0.35	0.08	9.3
RT00521		0.00	0.47	0.47	0.06	14.1
RT00523		0.04	0.76	0.80	**0.14**	16.4
RT00525	**0.40**	0.00	0.59	0.59	0.07	9.3
RT00526	0.13	0.04	**0.90**	0.94	**0.41**	4.8
RT00528	**0.32**	0.00	**1.11**	**1.11**	**0.20**	**38.8**
RT00530	0.00	0.00	0.36	0.36	0.08	8.9
RT00531	0.10	0.03	0.63	0.66	0.06	8.2
RT00541		0.03	0.39	0.42	0.06	8.9
RT00542	**0.45**	0.04	0.79	0.83	**0.11**	16.5
RT00543						9.6
RT00544		0.05	0.50	0.55	0.08	10.5
RT00545		0.00	0.18	0.18	0.06	2.9
RT00546		0.00	0.58	0.58	**0.10**	10.5
RT00547	**0.41**	0.04	0.62	0.66	0.07	17.0
RT00548						**23.3**
RT00549	**0.29**	0.00	0.78	0.78	0.07	**21.7**
RT00550	**0.37**	0.00	0.38	0.38	0.05	8.9
RT00554	**0.50**	0.07	0.60	0.67	0.09	4.8
RT00556		0.00	0.42	0.42	0.05	14.9
RT00557	0.27	0.04	0.70	0.74	**0.16**	8.0
RT00558		0.00	0.49	0.49		17.0
Mean	**0.34**	**0.02**	**0.59**	**0.61**	**0.10**	**12.5**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a). Shading for Chl-a represents High >20 µg/l (Bricker et al. 1999).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997. (SCDHEC 1998a)

Appendix 2.3. Summary of dissolved nutrient concentrations at sites sampled 2000. All laboratory analyses were completed by the SCDNR using protocols standardized for the Harmful Algal Bloom program. Dissolved nutrients were not measured in 1999.

SCECAP 2000 Water Quality
Dissolved and Total Nutrients -- Open Water

Station	Ammonia (NH4 mg/l)	Nitrate-Nitrite (NO_2-NO_3 mg/l)	Organic Nitrogen (DON mg/l)	Total Diss Nitrogen (TDN mg/l)	Total Nitrogen (TN mg/l)	Organic Phosphate (DOP mg/l)	Ortho-phosphate (OP mg/l)	Total Diss Phos (TDP mg/l)	Total Phosphorus (TP mg/l)	Silica Silicon (DS mg/l)	Organic Carbon (DOC mg/l)	Inorganic Carbon (DIC mg/l)
RO00006	0.068	0.136	0.355	0.559	0.863	0.000	0.048	0.018	0.063	1.591	7.107	
RO00007	0.017	0.005	0.340	0.362	0.483	0.004	0.011	0.013	0.026	3.334	4.037	3.800
RO00008	0.037	0.064	0.529	0.630	0.806	0.000	0.057	0.053	0.087		5.772	36.700
RO00009	0.076	0.038	0.489	0.603	0.756	0.000	0.050	0.040	0.054	1.500	4.471	42.300
RO00010	0.008			0.368	0.545	0.000	0.015	0.009	0.022	0.330	2.969	39.133
RO00015	0.100	0.280	0.526	0.905	1.000	0.050	0.015	0.065	0.128	3.015	11.477	
RO00016		0.000	0.429	0.429	0.791	0.000	0.010	0.006	0.059	1.146	4.237	18.367
RO00017	0.012	0.026	0.532	0.570	0.708	0.000	0.041	0.037	0.074	1.126	6.673	18.333
RO00018	0.005	0.078	0.629	0.712	0.827	0.008	0.053	0.060	0.073	1.633	7.407	18.033
RO00019	0.069	0.023	0.523	0.614	0.820	0.000	0.053	0.051	0.080	2.086	4.771	17.400
RO00020	0.098	0.261	0.436	0.794	0.952	0.017	0.038	0.054	0.107	2.820	10.443	
RO00021	0.092	0.017	0.476	0.584	0.786	0.011	0.000	0.013	0.109	1.959	6.539	
RO00022	0.011	0.002	0.466	0.479	0.941	0.000	0.024	0.019	0.090	0.483	4.254	18.100
RO00023	0.021	0.060	0.565	0.646	0.787	0.000	0.057	0.054	0.093	1.835	7.173	17.433
RO00024	0.043	0.011	0.506	0.561	0.703	0.000	0.035	0.026	0.052	1.662	4.204	37.167
RO00033		0.003	0.408	0.411	0.538	0.000	0.017	0.009	0.033	0.830	3.670	14.567
RO00034	0.044	0.187	0.549	0.780	0.867	0.016	0.034	0.049	0.104	3.007	12.378	8.933
RO00035	0.045	0.031	0.565	0.642	0.870	0.000	0.029	0.029	0.072	1.476	4.638	17.300
RO00036	0.028	0.013	0.479	0.520	0.643	0.000	0.047	0.042	0.076	0.987	3.470	16.967
RO00037	0.025	0.000	0.498	0.505	0.584	0.011	0.020	0.026	0.016	0.622	3.370	36.367
RO00045	0.040	0.005	0.544	0.589	0.698	0.001	0.033	0.032	0.088	1.169	5.238	18.400
RO00046	0.004	0.180			0.956	0.000	0.051		0.064	1.412	11.944	19.133
RO00047	0.040	0.011	0.379	0.430	0.622	0.000	0.032	0.024	0.046	0.975	4.070	37.967
RO00048	0.042	0.021	0.381	0.445	0.693	0.000	0.035	0.030	0.052	0.970	3.603	43.033
RO00049	0.029	0.005	0.524	0.558	0.654	0.000	0.028	0.021	0.033	0.974	3.703	37.533
RO00055	0.062	0.003	0.369	0.434	0.482	0.000	0.013	0.011	0.052	0.706	6.606	27.900
RO00056	0.012	0.058	0.427	0.497	0.547	0.002	0.021	0.021	0.047	1.782	3.103	11.600
RO00057	0.022	0.033	0.577	0.631	0.934	0.002	0.028	0.025	0.053	1.262	5.138	27.567
RO00058	0.021	0.004	0.509	0.535	0.596	0.004	0.041	0.044	0.049	0.737	6.272	17.567
RO00059	0.083	0.024	0.538	0.645	0.717	0.000	0.068	0.063	0.107	2.057	4.437	17.733
Mean	**0.041**	**0.054**	**0.484**	**0.567**	**0.739**	**0.004**	**0.033**	**0.033**	**0.067**	**1.500**	**5.773**	**23.821**

SCECAP 2000 Water Quality
Dissolved and Total Nutrients -- Tidal Creeks

Station	Ammonia (NH4 mg/l)	Nitrate-Nitrite (mg/l)	Organic Nitrogen (DON mg/l)	Total Diss Nitrogen (TDN mg/l)	Total Nitrogen (TN mg/l)	Organic Phosphate (DOP mg/l)	Ortho-phosphate (OP mg/l)	Total Diss Phos (TDP mg/l)	Total Phosphorus (TP mg/l)	Silica Silicon (DS mg/l)	Organic Carbon (DOC mg/l)	Inorganic Carbon (DIC mg/l)
RT00501	0.034	0.064	0.519	0.617	0.832	0.000	0.044	0.041	0.057	2.549	5.505	25.950
RT00502	0.066	0.064	0.745	0.876	1.217	0.002	0.109	0.110	0.192	3.173	10.109	16.067
RT00503	0.069	0.029	0.572	0.669	0.957	0.000	0.026	0.025	0.117	1.659	4.137	17.633
RT00504	0.016	0.000	0.584	0.601	0.844	0.008	0.055	0.063	0.099	3.109	7.373	37.133
RT00505		0.000	0.429	0.429	0.810	0.000	0.011	0.010	0.071	1.185	4.371	18.933
RT00517	0.008			0.565	0.820	0.002	0.052	0.054	0.069		4.771	47.867
RT00518	0.159	0.051	0.579	0.789	1.199	0.014	0.025	0.039	0.159	3.012	3.670	12.400
RT00519	0.030	0.009	0.567	0.605	0.921	0.004	0.058	0.063	0.080	1.491	6.840	16.567
RT00520		0.003	0.428	0.431	0.687	0.000	0.015	0.008	0.066	1.456	3.303	18.000
RT00521		0.005	0.446	0.451	0.702	0.000	0.020	0.009	0.057	1.282	2.769	19.000
RT00523	0.140	0.009	0.619	0.768	1.177	0.000	0.057	0.057	0.150	3.167	6.172	20.933
RT00525		0.004	0.449	0.453	0.762	0.000	0.023	0.020	0.050	2.368	4.137	20.133
RT00526	0.043	0.305	0.601	0.950	1.322	0.021	0.209	0.255	0.105	3.630	16.048	11.533
RT00528	0.006	0.000	0.718	0.842	1.279	0.005	0.065	0.070	0.191	2.515	13.145	19.033
RT00530		0.000	0.385	0.386	0.732	0.002	0.017	0.019	0.084	1.519	3.503	18.900
RT00531	0.037	0.000	0.648	0.686	0.847	0.011	0.010	0.021	0.050	1.976	6.072	15.367
RT00541	0.022	0.019	0.523	0.564	0.760	0.000	0.036	0.033	0.114	1.735	3.937	17.667
RT00542	0.142	0.006	0.680	0.828	1.263	0.008	0.059	0.068	0.178	3.919	5.939	24.267
RT00543	0.033	0.050	0.651	0.735	0.999	0.003	0.057	0.056	0.103		6.940	37.600
RT00544	0.062	0.019	0.431	0.513	0.727	0.000	0.019	0.011	0.072	1.148	2.402	19.000
RT00545	0.038	0.004	0.319	0.361		0.002	0.009	0.007	0.037	0.387	2.969	26.100
RT00546	0.028	0.017	0.596	0.641	0.665	0.000	0.037	0.034	0.100	1.380	3.937	17.200
RT00547	0.076	0.016	0.602	0.693	1.040	0.000	0.027	0.024	0.103	2.251	4.104	20.067
RT00548	0.044	0.005	0.683	0.732	0.919	0.000	0.056	0.047	0.114	3.163	6.906	38.233
RT00549	0.017	0.003	0.542	0.562	0.748	0.008	0.027	0.035	0.095	2.687	6.272	14.867
RT00550	0.005	0.001	0.358	0.364		0.001	0.007	0.010	0.058	0.798	3.470	27.267
RT00554	0.006	0.159	0.596	0.761	0.900	0.002	0.045	0.042	0.127	2.309	8.908	23.650
RT00556	0.017	0.004	0.652	0.673	0.869	0.003	0.033	0.032	0.058	1.176	5.705	16.000
RT00557	0.045	0.000	0.505	0.551	0.802	0.000	0.051	0.044	0.107	1.568	6.139	17.233
RT00558		0.000	0.506	0.507	0.709	0.000	0.024	0.023	0.070	2.025	5.205	19.800
Mean	**0.048**	**0.029**	**0.549**	**0.620**	**0.911**	**0.003**	**0.043**	**0.044**	**0.098**	**2.094**	**5.825**	**21.813**

Shading represents values considered to be high (>0.1 mg/l; Bricker et al., 1999).

Appendix 2.4. Summary of five-day biochemical oxygen demand, turbidity, total alkalinity, fecal coliform bacteria, and total organic carbon concentrations at sites sampled in 1999 and 2000. The SCDHEC laboratory completed all analyses.

SCECAP 1999 Water Quality
Total Nutrients -- Open Water

Station	BOD 5 Day mg/l	Turbidity NTU	Total Alkalinity mg/l	Fecal Coliform per 100 ml	Total Organic Carbon mg/l as C
RO99301	1.6	7.6	94	2	6.9
RO99302	**1.9**	**18.0**	54	23	9.7
RO99303	**2.2**	**20.0**	**116**	11	0.0
RO99304	**4.1**	8.9	91		2.9
RO99305	1.4	5.0	**105**		0.0
RO99306	1.3	7.0	**122**	14	
RO99307	**2.0**	**50.0**	39	**900**	3.7
RO99308	1.6	11.0	**102**	4	10.5
RO99309	**3.1**	11.0	97	0	**12.4**
RO99310	1.1	**22.0**	**116**	2	0.0
RO99311	0.6	**16.0**	**113**	0	0.0
RO99312	1.0	10.0	**118**	0	3.0
RO99313	**2.2**	**50.0**	90	17	8.1
RO99315	**5.5**	**16.0**	97	11	6.0
RO99316	1.6	14.0	55	17	6.4
RO99317	1.1	9.2	**116**	2	0.0
RO99318	**2.0**	7.0	**102**	4	6.0
RO99319	**4.0**	14.0	96	2	2.7
RO99320	1.1	5.6	**106**	2	0.0
RO99321	**2.9**	**23.0**	72	17	6.9
RO99322	0.8	9.0	90	**80**	2.4
RO99323	1.3	13.0	**110**	30	
RO99324	**7.1**	11.0	95		2.2
RO99325	**5.6**	4.4	**102**		0.0
RO99326	**2.8**	**34.0**	96	8	5.8
RO99327	1.1	**20.0**	**102**	4	2.3
RO99328	1.0	**24.0**	**116**	0	2.4
RO99329	1.6	5.9	**106**	2	
RO99330	**2.4**	12.0	**109**	11	3.1
Mean	**2.3**	**15.8**	**97**	**46.52**	**4.0**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded shellfish standards (43 colonies/100ml).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded standards for primary contact recreation (400 colonies/100ml).

* indicates value was below detection limit for that parameter

SCECAP 1999 Water Quality
Total Nutrients -- Tidal Creeks

Station	BOD 5 Day mg/l	Turbidity NTU	Total Alkalinity mg/l	Fecal Coliform per 100 ml	Total Organic Carbon mg/l as C
RT99001	1.9	65.0	119	13	0.0
RT99002	1.4	12.0	118	2	0.0
RT99003	1.0	34.0	116	22	
RT99004	1.8	45.0	122	8	0.0
RT99005	7.2	14.0	107		4.9
RT99006	2.3	18.0	120	70	2.4
RT99007	2.2	25.0	124	50	3.2
RT99008	1.4	39.0	113	2	
RT99009	1.6	14.0	123	130	4.6
RT99010	5.5	17.0	92	8	12.9
RT99012	3.8	19.0	126	0	2.9
RT99013	1.3	24.0	113	4	
RT99017	3.4	13.0	100	300	6.2
RT99019	2.3	21.0	128	4	
RT99021	1.3	28.0	122	4	0.0
RT99022	1.3	9.9	112	30	2.2
RT99024	1.3	22.0	94	11	7.2
RT99026	2.2	17.0	123	0	0.0
RT99027	2.2	12.0	96	13	4.8
RT99028	1.2	13.0	123	0	2.4
RT99029	4.5	12.0	130	8	
RT99030	2.1	20.0	118	13	0.0
RT99036	1.4	36.0	117	8	0.0
RT99037	3.6	13.0	108	60	3.7
RT99038	4.1	11.0	121	0	0.0
RT99039	1.1	28.0	118	4	0.0
RT99040	7.7	23.0	118	8	0.0
Mean	**2.6**	**22.4**	**116**	**29.69**	**2.6**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded shellfish standards (43 colonies/100ml).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded standards for primary contact recreation (400 colonies/100ml).

* indicates value was below detection limit for that parameter

SCECAP 2000 Water Quality
Total Nutrients -- Open Water

Station	BOD 5 Day mg/l	Turbidity NTU	Total Alkalinity mg/l	Fecal Coliform per 100 ml	Total Organic Carbon mg/l as C
RO00006	**2.8**	**18.0**	75	2	5.3
RO00007	**2.1**	8.5	25	0	3.3
RO00008	1.0	**30.0**	**116**	0	4.6
RO00009	0.8	10.0	**125**	7	3.8
RO00010	0.8	6.7	**119**	0	3.4
RO00015	**2.8**	**16.0**	30	30	7.3
RO00016	0.0	15.0	**125**	0	4.0
RO00017	0.4	**24.0**	**115**	0	4.6
RO00018	0.8	12.0	**117**	0	4.3
RO00019	0.0	8.8	**111**	0	0.0
RO00020	**2.2**	13.0	35	26	6.6
RO00021	0.0	**26.0**	83	13	5.0
RO00022	0.0	7.1	**113**	4	4.3
RO00023	0.5	11.0	**117**	2	4.4
RO00024	0.7	5.5	73	2	3.3
RO00033	0.0	6.3	**100**	0	2.8
RO00034	**3.3**	14.0	30	**44**	7.9
RO00035	0.0	**16.0**	**114**	30	3.9
RO00036	0.0	12.0	**108**	2	3.8
RO00037	1.1	6.6	**115**	0	2.8
RO00045	0.0	11.0	**112**	**140**	6.0
RO00046	0.0	**20.0**	81	0	7.9
RO00047	1.0	4.4	**113**	0	3.2
RO00048	1.2	8.6	**116**	0	2.9
RO00049	1.2	8.8	**116**	0	2.8
RO00055	**2.3**	8.2		4	4.6
RO00056	**2.5**	5.3	76	7	3.2
RO00057	0.0	**18.0**	**123**	13	3.4
RO00058	0.0	**16.0**	**107**	0	3.7
RO00059	0.0	10.0	**114**	2	0.0
Mean	**0.9**	**12.6**	**97**	**11**	**4.1**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded shellfish standards (43 colonies/100ml).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded standards for primary contact recreation (400 colonies/100ml).

* indicates value was below detection limit for that parameter

SCECAP 2000 Water Quality
Total Nutrients -- Tidal Creeks

Station	BOD 5 Day mg/l	Turbidity NTU	Total Alkalinity mg/l	Fecal Coliform per 100 ml	Total Organic Carbon mg/l as C
RT00501	0.0	**30.0**	**108**	0	3.4
RT00502	0.0	**29.0**	**104**	23	7.0
RT00503	0.0	15.0	**119**	22	3.1
RT00504	1.2	12.0	**121**	17	5.3
RT00505	0.0	**18.0**	**126**	0	2.8
RT00517	1.0	7.8	**127**	2	3.8
RT00518	**2.5**	**39.0**	**112**	**80**	2.9
RT00519	0.0	15.0	**107**	2	4.9
RT00520	0.0	9.1	**120**	0	2.7
RT00521	0.0	15.0	**128**	2	2.4
RT00523	0.0	**25.0**	84	**900**	4.7
RT00525	0.0	10.0	**134**	0	3.4
RT00526	0.0	**22.0**	74	**170**	**11.9**
RT00528	**2.5**	**42.0**	**114**	**50**	8.8
RT00530	0.0	12.0	**122**	0	2.3
RT00531	**2.6**	7.3	**101**	23	5.0
RT00541	0.0	**21.0**	**112**	0	0.0
RT00542	**3.2**	15.0	**146**	**110**	6.1
RT00543	1.7	13.0	**124**	**90**	6.4
RT00544	**3.4**	9.3	**124**	2	3.5
RT00545	**3.3**	3.3		0	0.0
RT00546	**2.1**	**28.0**	**114**	0	3.5
RT00547	0.0	**24.0**	**124**	14	3.9
RT00548	**2.6**	**82.0**	**132**	7	5.7
RT00549	**3.1**	14.0	94	**50**	5.4
RT00550	**4.3**	3.0	**130**	20	0.0
RT00554	0.0	**21.0**	95	22	7.8
RT00556	0.0	9.6	**111**	0	4.2
RT00557	0.0	**18.0**	**114**	30	4.2
RT00558	0.0	**25.0**	**125**	0	2.5
Mean	**1.1**	**19.8**	**115**	**55**	**4.3**

Shading represents values that are equal to or exceed 75th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded shellfish standards (43 colonies/100ml).

Shading represents values that are equal to or exceed 90th percentile of all measurements collected by SCDHEC in saltwaters from 1993 - 1997 (SCDHEC 1998a), or had fecal coliform values that exceeded standards for primary contact recreation (400 colonies/100ml).

* indicates value was below detection limit for that parameter

Appendix 2.5. Summary of the percent of the state's tidal creek and open water habitat that met various water quality, sediment quality, biological condition measures during 1999 and 2000. The 95% lower and upper confidence limits are also provided.

SCECAP 1999-2000
Water, sediment, and biological cut points

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
		Lower CL	**Percent**	Lower CL	Lower CL	**Percent**	Upper CL
WATER QUALITY							
Salinity -- ppt	≤ 5	--	**0**	--	1	**7**	14
(25 Hr mean - bottom)	≤ 18	0	**5**	10	4	**13**	21
	≤ 30	13	**25**	37	39	**51**	64
	> 30	--	**75**	--	--	**49**	--
Dissolved Oxygen -- mg/l	< 3	1	**7**	13	--	**0**	--
(25 Hr mean - bottom)	< 4	32	**46**	60	1	**9**	16
	< 5	83	**91**	99	40	**54**	67
	≥ 5	--	**9**	--	--	**46**	--
Dissolved Oxygen -- mg/l	< 3	10	**21**	32	--	**0**	--
(Instantaneous Bottom)	< 4	41	**54**	67	13	**24**	35
	< 5	80	**89**	98	58	**70**	81
	> 5	--	**11**	--	--	**30**	--
Dissolved Oxygen -- mg/l	< 3	8	**18**	28	--	**0**	--
(Instantaneous - surface)	< 4	41	**54**	67	5	**14**	22
	< 5	79	**88**	97	56	**68**	80
	> 5	--	**12**	--		**32**	--
pH	< 7.1	0	**7**	14	2	**10**	18
(25 Hr mean - bottom)	< 7.4	29	**42**	55	13	**24**	35
based on 99_00 pristine creeks only	> 7.4	--	**58**	--	--	**76**	--
Total Kjeldahl Nitrogen	≤ 0.81	72	**82**	92	91	**96**	--
mg/l	≤ 1.06	85	**92**	99	--	**100**	--
	> 1.06	--	**8**	--	--	**0**	--
Nitrate / Nitrite	≤ 0.14	--	**100**	--	84	**91**	99
mg/l	≤ 0.23	--		--	69	**99**	100
	> 0.23	--		--	--		--
Total Nitrogen	≤ 0.95	79	**88**	97	90	**96**	100
(TKN + NOx - mg/l)	≤ 1.29	--	**12**	--	--	**4**	--
	> 1.29	--	**0**	--	--	**0**	--

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
Ammonia Nitrogen	≤ 0.28	41	**56**	71	67	**79**	91
mg/l	≤ 0.48	74	**84**	95	94	**98**	100
	≤ 0.60	89	**96**	102	--	**100**	--
	> 0.60	--	**4**	--	--	**0**	--
Total Phosphorus	≤ 0.09	32	**45**	59	71	**81**	91
mg/l	≤ 0.17	85	**92**	99	--	**19**	--
	> 0.17	--	**8**	--	--	**0**	--
BOD_5	≤ 1.8	43	**56**	69	53	**66**	78
mg/l	≤ 2.6	66	**77**	88	73	**83**	93
	> 2.6	--	**23**	--	--	**17**	--
Total Organic Carbon	≤ 11	93	**97**	101	96	**99**	100
mg/l	≤ 16	--	**100**	--	--	**100**	--
	> 16	--	**0**	--	--	**0**	--
Fecal Coliform -- mg/l	≤ 43	72	**82**	92	88	**94**	100
cells / 100ml	≤ 400	96	**99**	102	62	**99**	100
	> 400	--	**1**	--	--	**1**	--
Alkalinity	≤ 98	4	**13**	22	26	**39**	51
mg/l	≤ 110	15	**26**	37	46	**59**	71
	≤ 114	28	**41**	54	59	**71**	83
	≤ 125	72	**82**	92	--	**100**	--
	> 125	--	**18**	--	--	**0**	--
Turbidity	≤ 15	33	**46**	59	54	**66**	78
NTU	≤ 25	66	**77**	88	86	**92**	99
	> 25	--	**23**	--	--	**8**	--
WQ Score (with nutr)	≤ 3.0	0	**5**	10	--	**0**	--
continuous	≤ 4.0	25	**38**	51	3	**11**	19
	> 4.0	--	**62**	--	--	**89**	--
SEDIMENT QUALITY							
Sediment Composition	80	36	**49**	62	61	**72**	84
Percent Silt Clay	20-80	--	**42**	--	--	**22**	--
	20	16	**9**	2	12	**6**	0

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
TOC	≤ .05	0	**4**	8	1	**8**	16
	0.05-3	--	**85**	--	--	**87**	--
	>3	3	**11**	19	0	**5**	10
Porewater Ammonia mg/l	≤ 14	96	**99**	102	71	**99**	100
	>14	--	**1**	--	--	**1**	--
Contaminants ERMQ	≤ 0.020	68	**79**	90	79	**88**	96
	≤ 0.058	--	**100**	--	0	**98**	18
	> 0.058	--	**0**	--	--	**2**	--
Toxicity	None	34	**47**	60	43	**56**	69
	1 of 3	33	**46**	59	19	**30**	42
	≥ 2 of 3	3	**7**	11	5	**14**	22
Integrated Sediment Score	1.5	--	**0**	--	0	**3**	8
	1.5-3.5	--	**38**	--	--	**30**	--
	3.5	51	**62**	73	56	**67**	79
BIOLOGY							
Chlorophyll A µg/l	≤ 5	0	**6**	12	0	**7**	14
	≤ 20	78	**87**	96	93	**97**	100
	≤ 60	--	**100**	--	--	**100**	--
	> 60	--	**0**	--	--	**0**	--
Benthic IBI	≤ 1.5	0	**4**	8	0	**2**	5
	≤ 2.5	6	**16**	26	5	**14**	22
	> 2.5	--	**84**	--	--	**86**	--
Overall Integrated Measure Habitat Quality Score	≤ 1.8	--	**0**	--	--	**0**	--
	≤ 3.2	4	**12**	20	1	**8**	26
	> 3.2	--	**88**	--	--	**92**	--

Appendix 3.1. Summary of sediment composition (percent silt/clay versus sand), total organic carbon (TOC) and total ammonia nitrogen (TAN) concentrations, contaminant concentrations, and sediment bioassay results to evaluate for sediment toxicity at sites sampled in 1999 and 2000. All contaminant analyses and the microtox bioassays were completed by the NOAA National Ocean Service CCEHBR laboratory. All other measures were analyzed by the SCDNR MRRI laboratory, except for the amphipod bioassays, were completed by a USEPA subcontractor during the 2000 sampling period.

SCECAP 1999 -- Open Water
Sediment characteristics, contaminants, and toxicity

	Characteristics			Contaminants					Toxicity			
									Microtox® Assay		*Seed Clam Assay*	
Station	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	EC_{50} Percent	Toxic	Mean Growth	Toxic
RO99301	7.7	0.2	1.3	0.007					0.9		*	
RO99302	96.8	6.6		**0.037**	1				0.3		NA	
RO99303	10.9	0.2	1.7	0.006					0.7		31.2	
RO99304	12.4	0.4	2.3	0.004					0.7		20.1	
RO99305	3.6	0.1	3.6	0.003					1.3		20.9	
RO99306	2.6	0.1	5.8	0.005					15.9		2.8	†
RO99307	2.3	0.1	0.6	0.004					0.5	†	*	
RO99308	93.2	0.2	1.3	0.011					0.3		39.9	
RO99309	11.7	0.3	1.8	0.009					0.4	†	32.3	
RO99310	9.3	0.1	1.3	0.006					1.9		30.7	
RO99311	0.9	0.0		0.005					15.4		*	
RO99312	25.8	1.4	4.8	0.017					0.1	†	*	
RO99313	19.0	0.7	7.0	0.008					0.1	†	25.8	
RO99315	1.5	0.0	1.8	0.002					15.0		40.4	
RO99316	95.4	5.5	6.0	**0.040**	1				0.0	†	2.6	†
RO99317	5.5	0.1	0.4	0.005					4.7		*	
RO99318	4.6	0.1	2.4	0.006					6.2		45.7	
RO99319	16.1	0.6	2.0	0.012					0.4	†	35.8	
RO99320	11.2	0.3	3.4	0.013	1				0.3	†	26.8	
RO99321	63.9	2.8	0.8	**0.024**	1				0.6		5.6	†
RO99322	23.0	1.0	3.7	**0.042**					0.1	†	*	
RO99323	10.9	0.3	3.1	0.012	1				0.5	†	44.0	
RO99324	30.0	0.9	4.8	**0.032**					0.1	†	27.7	
RO99325	8.4	0.1	2.7	0.007					0.7		35.2	
RO99326	34.8	1.0	1.0	0.016					1.2		34.6	
RO99327	6.6	0.3	2.1	0.008					3.1		NA	
RO99328	22.8	0.9	0.5	0.011					1.0		33.5	
RO99329	5.0	0.1	3.8	0.008					2.3		37.7	
RO99330	11.4	0.2	3.4	0.008					0.3	†	25.0	
Mean	**22.3**	**0.9**	**2.7**	**0.013**					**2.6**		**28.5**	

† = Toxic: Microtox, EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

SCECAP 1999 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

	Characteristics			Contaminants					Toxicity			
									Microtox® Assay		*Seed Clam Assay*	
Station	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	EC_{50} Percent	Toxic	Mean Growth	Toxic
RT99001	89.5	3.7	11.8	**0.036**	1				0.0	†	**	
RT99002	4.6	0.1	0.9	0.006					2.1		43.9	
RT99003	36.0	1.2	2.8	0.017					0.1	†	**	
RT99004	10.5	0.3	0.2	0.007					0.5		39.8	
RT99005	40.9	1.0	0.5	**0.023**					0.2	†	48.9	
RT99006	8.3	0.2	3.1	0.007					4.5		38.5	
RT99007	26.9	0.7	3.5	0.017					0.1	†	38.7	
RT99008	30.7	1.0	5.5	0.014					0.1	†	**	
RT99009	95.0	3.8	5.0	**0.029**	1				0.0	†	8.2	†
RT99010	31.2	1.2	11.3	0.019					0.4		21.1	
RT99012	15.5	0.5	2.0	0.008					0.3	†	33.2	
RT99013	94.8	2.5	1.3	**0.033**	1				0.2		**	
RT99017	13.4	1.0	1.1	0.015					0.9		**	
RT99019	2.9	0.1	1.5	0.004					3.7		44.1	
RT99021	59.4	2.0	2.6	**0.024**	1				0.1	†	**	
RT99022	34.6	1.3	2.9	0.014					0.7		45.1	
RT99024	4.3	0.1	1.8	0.006					15.6		24.3	
RT99026	12.2	0.4	3.4	0.008					0.2	†	**	
RT99027	15.3	0.3	0.6	0.007					3.3		**	
RT99028	33.7	1.1	2.1	0.013					0.1	†	37.2	
RT99029	9.9	0.3	1.0	0.006					1.3		48.0	
RT99030	26.1	0.6	2.0	0.014					0.1	†	33.9	
RT99036	95.8	4.0	2.5	**0.037**	1				0.0	†	**	
RT99037	5.5	0.4	1.9	0.005					2.1		49.3	
RT99038	41.7	1.3	0.8	0.016					0.3		40.5	
RT99039	9.3	0.2	1.2	0.006					2.4		39.0	
RT99040	14.7	0.3	2.1	0.008					0.2	†	35.0	
Mean	**32.0**	**1.1**	**2.8**	**0.015**					**1.5**		**37.1**	

† = Toxic: Microtox EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay < 80% of mean sediment control growth and less than 95% Lower Confidence Limit (LCL)

Asterisk represents number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

** = No data due to low clam growth in controls

= Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

SCECAP 2000 -- Open Water
Sediment characteristics, contaminants, and toxicity

	Characteristics			Contaminants					Toxicity					
									Microtox® Assay		*Amphipod Assay*		*Seed Clam Assay*	
Station	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	EC_{50} Percent	Toxic	Percent Survival	Toxic	Mean Growth	Toxic
RO00006	10.2	0.6	12.3	0.003					0.1	†	96		32.3	†
RO00007	0.7	0.2	0.0	0.001					15.7		83		18.9	
RO00008	9.7	0.2	1.9	0.004					0.2	†	92		30.1	
RO00009	26.0	0.8	3.4	0.013					0.1	†	96		28.0	
RO00010	6.5	0.1	2.1	0.006					2.7		93		25.6	
RO00015	29.8	2.2	1.9	0.017					0.0	†	89		2.4	†
RO00016	24.5	1.1	1.9	0.008					0.7		87		35.9	
RO00017	4.4	0.1	0.5	0.002					8.1		89		25.9	
RO00018	4.8	0.1	0.0	0.001					0.9		85		29.8	
RO00019	26.7	0.7	2.0	**0.033**		1			0.5		91		41.2	†
RO00020	20.6	0.9	3.0	0.009					0.0	†	98		10.5	†
RO00021	16.5	0.7	1.6	0.005					0.2	†	88		35.1	†
RO00022	2.2	0.6	7.3	0.007					0.1	†	97		39.6	
RO00023	16.3	0.8	1.7	0.014	1				0.9		85		28.7	
RO00024	10.4	0.2	1.7	0.001					1.5		86		29.5	
RO00033	12.1	0.4	1.4	0.008					0.9		93		28.6	
RO00034	37.4	1.8	4.1	**0.021**	1				0.0	†	97		-22.0	†
RO00035	11.3	0.6	1.9	0.013					0.8		91		40.4	
RO00036	5.5	0.3	1.5	0.017	1				4.5		82		20.0	
RO00037	1.3	0.1	0.3	0.004					11.2		92		40.7	
RO00045	6.0	0.1	0.8	0.003					0.9		91		26.6	
RO00046	2.8	0.1	1.0	0.001					13.2		91		42.2	
RO00047	27.4	0.8	3.1	0.010					1.0		90		19.1	
RO00048	13.2	0.4	3.0	0.009					0.5	†	89		33.5	
RO00049	3.2	0.1	1.9	0.002					15.2		95		27.7	
RO00055	1.8	0.1	2.3	0.001					15.4		89		49.4	
RO00056	98.5	4.3	19.3	**0.163**	3	8			0.0	†	87		15.3	†
RO00057	7.5	0.2	1.2	0.005					0.3	†	90		51.4	
RO00058	5.3	0.2	1.6	0.008					3.7		92		27.6	
RO00059	11.9	0.3	2.6	0.005					0.5	†	93		36.3	†
Mean	**15.1**	**0.6**	**2.9**	**0.013**					**3.3**		**90.57**		**28.3**	

† = Toxic: Microtox, EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

Values exceed threshold representing high risk of benthic impacts (Hyland et al., 1999).

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

SCECAP 2000 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

	Characteristics			Contaminants					Toxicity					
									Microtox® Assay		*Amphipod Assay*		*Seed Clam Assay*	
Station	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	EC_{50} Percent	Toxic	Percent Survival	Toxic	Mean Growth	Toxic
RT00501	10.3	0.4	0.8	0.009					0.5	†	96		54.0	
RT00502	2.0	0.1	0.4	0.002					15.6		83		25.6	†
RT00503	17.8	0.9	3.3	0.014	1				0.3	†	88		28.1	
RT00504	14.7	0.4	1.6	0.005					0.2	†	87		31.7	
RT00505	32.9	1.5	2.7	0.015	1				0.1	†	88		28.5	
RT00517	3.1	0.1	1.2	0.005					16.8		91		33.9	
RT00518	78.7	5.4	1.6	**0.028**	1				0.6		92		38.7	
RT00519	34.4	1.5	4.4	0.013					0.0	†	91		30.3	
RT00520	15.1	0.4	1.6	0.011					0.2	†	91		30.0	
RT00521	87.9	3.7	6.3	**0.035**	1				0.0	†	92		27.2	
RT00523	70.5	2.4	2.0	0.020	1				0.4		94		36.5	
RT00525	10.2	0.5	0.9	0.009					0.3	†	91		34.5	
RT00526	63.8	4.0	8.7	**0.049**	1		1		0.1	†	89		-12.7	†
RT00528	50.9	2.4	7.4	0.017					0.3		91		22.0	
RT00530	25.6	1.0	4.5	0.013					0.1	†	97		27.0	
RT00531	6.0	0.2	1.2	0.004					0.9		87		25.0	
RT00541	45.7	1.2	0.8	0.017	1				0.8		94		50.0	
RT00542	8.8	0.2	1.0	0.006					0.8		87		28.0	
RT00543	19.3	0.6	2.3	0.005					0.1	†	90		35.4	
RT00544	5.6	0.1	1.7	0.003					7.0		90		18.3	
RT00545	1.5	0.0	0.1	0.000					16.1		90		55.4	
RT00546	6.8	0.3	0.9	0.004					1.2		88		51.5	
RT00547	27.6	1.0	1.8	0.012					0.8		94		30.9	
RT00548	70.5	2.0	0.9	**0.027**	1				0.3		82		22.8	
RT00549	74.3	3.3	2.1	**0.055**	1		1		0.0	†	93		-2.1	†
RT00550	12.8	0.4	3.3	0.003					0.1	†	94		29.1	†
RT00554	34.3	1.5	21.0	0.008					0.4		89		23.8	†
RT00556	17.5	0.7	2.5	0.006					0.1	†	90		52.6	
RT00557	32.9	1.1	3.3	0.009					0.7		90		27.7	
RT00558	72.9	2.7	1.5	**0.031**	1				0.0	†	88		24.3	
Mean	**31.8**	**1.3**	**40.4**	**0.014**					**2.2**		**90.23**		**30.3**	

† = Toxic: Microtox, EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

= Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

Appendix 4.1. Abundance of benthic species comprising 85% of the total benthic faunal abundance collected in 1999 and 2000. Abundance values represent the number of individuals per grab ($0.04m^2$). Density represents the number of individuals/ m^2. Higher taxa codes are p = polychaete, A = amphipod, M = mollusk, and O = other taxa. H' = Shannon-Weiner Index of Diversity, J' = H'/H_{max} (number of taxa in sample).

SCECAP 1999 - Open Water
Dominant Benthic Taxa

Species Name	Higher taxa	RO99301	RO99302	RO99303	RO99304	RO99305	RO99306	RO99307	RO99308	RO99309	RO99310	RO99311	RO99312	RO99313	RO99315	RO99316	RO99317	RO99318	RO99319	RO99320	RO99321	RO99322	RO99323	RO99324	RO99325	RO99326	RO99327	RO99328	RO99329	RO99330
Streblospio benedicti	P	43	0	23	45	3	0	18	7	8	0	2	4	3	40	68	0	10	41	238	12	0	6	1	34	26	15	0	12	245
Actiniaria	O	0	0	0	2	50	0	1039	2	8	0	0	7	18	0	0	0	0	2	6	0	0	0	0	3	0	1	2	8	0
Caulleriella sp.	P	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	6	0	0	0	1	23	0	0	3	173	3
Exogone sp.	P	0	0	0	316	559	7	0	29	9	0	0	8	0	5	0	0	25	12	62	0	0	7	12	1	0	1	1	8	0
Ampelisca abdita	A	14	0	0	57	49	1	0	1	9	2	0	13	0	1	0	0	3	3	50	0	6	2	0	9	0	0	8	226	259
Mediomastus sp.	P	5	0	4	141	4	3	0	5	1	2	0	13	0	0	0	1	12	24	64	0	12	4	67	18	0	0	4	12	9
Monticellina sp.	P	0	0	4	2	2	2	0	11	0	31	0	0	0	4	0	0	0	0	5	0	0	2	1	10	0	0	0	2	0
Tubificoides wasselli	O	0	0	1	3	52	9	0	11	0	0	0	0	0	57	0	0	2	2	6	0	0	0	0	11	0	0	13	53	0
Scoletoma tenuis	P	0	0	22	44	1	0	0	1	3	0	0	2	0	2	0	0	1	50	30	0	0	0	29	9	0	1	0	11	24
Protohaustorius deichmannae	A	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos rubra	P	4	0	0	20	0	0	0	0	1	0	0	1	0	1	0	0	0	4	1	0	1	1	313	4	0	0	0	7	37
Tubificidae	O	1	0	0	42	0	0	8	0	0	0	0	11	0	0	0	0	4	7	0	0	0	0	0	0	0	0	1	0	0
Tharyx acutus	P	0	0	35	9	0	0	0	3	0	4	0	4	0	3	0	7	16	10	3	0	0	5	0	74	0	8	12	16	1
Tubificidae sp. B	O	0	0	12	148	46	22	15	24	0	13	0	0	0	40	0	0	1	1	33	0	0	20	61	32	0	0	0	107	0
Mediomastus ambiseta	P	21	0	126	14	2	18	0	1	0	8	0	0	0	1	0	28	27	1	16	0	9	15	9	31	0	9	1	0	0
Parapionosyllis sp.	P	0	0	0	0	99	25	0	0	0	0	0	0	0	143	0	0	0	0	0	0	0	0	0	0	0	0	0	31	2
Tubificidae sp. A	O	0	0	0	0	23	0	334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polydora cornuta	P	0	0	0	16	5	0	0	18	48	0	0	0	1	0	0	0	35	13	8	0	0	6	0	0	0	1	0	0	5
Cirratulidae	P	0	0	5	11	0	0	0	1	0	2	0	3	0	3	0	2	8	2	1	0	0	0	2	7	0	0	6	12	9
Cyathura burbancki	O	1	3	0	7	81	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	5
Sabellaria vulgaris	P	0	0	0	12	66	2	0	19	0	0	0	0	0	0	0	0	3	2	0	0	0	1	0	0	0	0	0	23	0
Streptosyllis sp.	P	0	0	0	2	9	0	0	0	0	0	0	0	0	101	0	0	0	2	9	0	0	0	0	0	0	0	0	14	1
Tubificoides brownae	O	6	1	38	1	2	3	0	27	0	0	0	3	3	4	0	0	5	11	20	0	4	15	7	47	0	0	2	0	0
Unciola serrata	A	0	0	0	6	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Aricidea wassi	P	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	38	0	1	0	0	1	0	15	0	4	0	1	1
Cirrophorus sp.	P	0	0	6	7	1	1	0	1	0	0	0	0	0	33	0	0	3	2	7	0	0	1	2	10	0	1	0	4	2
Carinomella lactea	O	0	0	12	2	3	10	0	32	0	8	0	35	0	1	0	6	3	2	19	0	11	31	0	2	1	1	5	0	0
Spiochaetopterus costarum oculatus	P	47	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	2	3	0	14	0	0	0	1	0
Nemertinea	O	4	1	0	6	18	0	0	3	0	1	26	1	2	6	7	2	3	2	2	3	2	1	0	0	1	0	3	6	2
Tellina agilis	M	0	0	4	0	0	3	0	7	0	9	0	0	0	0	0	33	9	0	0	0	0	1	0	2	0	0	0	0	0
Pelecypoda	M	0	0	0	3	3	0	12	8	2	0	1	0	0	1	6	0	1	0	2	3	0	6	1	2	0	2	13	2	0
Turbonilla sp.	M	0	0	0	0	0	0	0	74	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0
Mediomastus californiensis	P	0	0	0	0	1	5	0	5	0	0	0	3	0	0	0	0	3	1	4	0	0	1	1	11	0	0	0	42	1
Rhepoxynius hudsoni	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	1	0	0	0
Prionospio sp.	P	0	0	2	1	5	23	0	2	0	24	0	12	0	0	0	33	0	0	0	0	0	17	2	0	0	0	0	1	0
Paraprionospio pinnata	P	15	0	0	0	0	0	0	3	3	0	0	10	1	0	0	0	0	4	0	0	78	0	6	0	1	0	0	0	0
Clymenella torquata	P	0	0	1	0	0	24	0	12	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0
Pinnixa sp.	O	0	0	1	0	1	20	0	40	0	1	0	1	0	0	0	10	2	0	2	0	0	0	0	0	0	2	6	1	0
Chiridotea stenops	O	0	0	0	4	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis succinea	P	0	3	0	33	0	18	0	1	4	0	0	0	3	2	0	0	1	0	0	5	0	0	1	1	11	0	1	0	2
Corophium aquafuscum	A	0	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	9	0	0	0	31	0
Heteromastus filiformis	P	6	11	0	0	0	0	0	0	0	0	5	0	2	3	0	0	1	21	0	1	0	0	0	0	8	1	0	0	0
Maera caroliniana	A	0	0	0	0	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Podarkeopsis levifuscina	P	0	0	0	23	9	3	0	1	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	14	0
Nucula sp.	M	0	0	0	0	0	3	0	1	0	2	0	0	0	0	0	0	1	1	3	0	0	3	1	8	0	0	0	0	0
Enchytraeidae	O	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Glycera americana	P	0	0	0	4	3	9	0	5	2	2	0	0	0	0	0	3	2	4	9	0	2	2	0	3	0	5	5	2	0
Lepidactylus dytiscus	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tubificoides heterochaetus	O	0	4	0	0	0	0	1	0	0	0	0	0	0	0	69	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Tellinidae	M	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	25	1	0	0	0	1	0	5	1	0	0	0	4
Ampelisca verrilli	A	67	0	9	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Corophium simile	A	0	0	0	19	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
Biffarius biformis	O	0	0	3	0	0	0	0	4	0	6	0	1	0	0	0	5	4	0	0	0	0	3	0	1	0	0	6	0	1
Percent of total abundance		95	61	87	81	75	52	92	74	86	66	61	69	87	90	100	81	76	85	82	71	84	67	79	88	66	76	58	87	96
Mean total abundance (#/0.04m^2)		123	19	180	616	879	204	780	246	61	89	35	98	19	276	75	113	167	137	373	18	76	116	329	227	37	36	79	491	321
Mean density (#/m^2)		3075	475	4488	15400	21975	5100	19488	6138	1513	2225	875	2438	475	6888	1875	2825	4163	3413	9325	438	1888	2900	8213	5663	925	900	1975	12263	8013
Mean number of species (#/0.04m^2)		13	7	23	46	56	50	13	50	18	26	10	29	6	21	4	21	39	27	48	8	13	35	30	37	11	18	30	48	23
H' - diversity		2.89	2.16	3.38	3.84	4.16	4.88	1.57	4.62	3.28	3.92	2.78	4.07	1.9	2.93	1.34	3.28	4.18	3.56	3.94	2.58	2.34	4.45	2.58	4.31	2.79	3.68	4.35	3.87	2.05
J' - diversity		0.79	0.8	0.75	0.7	0.72	0.87	0.43	0.83	0.79	0.84	0.84	0.85	0.78	0.67	0.67	0.75	0.8	0.8	0.71	0.9	0.64	0.88	0.53	0.83	0.81	0.89	0.89	0.69	0.46

SCECAP 1999 - Tidal Creeks
Dominant Benthic Taxa

Species Name	Higher taxa	RT99001	RT99002	RT99003	RT99004	RT99005	RT99006	RT99007	RT99008	RT99009	RT99010	RT99012	RT99013	RT99017	RT99019	RT99021	RT99022	RT99024	RT99026	RT99027	RT99028	RT99029	RT99030	RT99036	RT99037	RT99038	RT99039	RT99040
Streblospio benedicti	P	6	11	42	39	1	227	28	48	0	8	143	0	46	34	0	75	36	254	2	34	74	11	33	0	1	88	216
Ampelisca abdita	A	0	1	0	1	5	0	0	4	0	8	0	8	0	0	2	0	0	3	0	4	0	12	2	0	0	0	0
Scoletoma tenuis	P	1	0	19	69	10	0	31	41	0	3	24	30	0	1	13	3	4	0	0	52	4	19	0	0	12	17	23
Tubificoides wasselli	O	0	7	0	23	0	1	0	0	0	1	0	0	0	2	0	0	52	1	0	0	30	0	1	0	0	0	0
Polydora cornuta	P	0	0	0	0	0	4	90	0	0	0	2	0	0	0	0	8	0	5	0	0	7	67	36	0	0	0	170
Tharyx acutus	P	2	1	6	21	0	4	0	70	0	0	0	1	0	3	0	0	7	73	0	0	0	1	0	0	0	3	2
Tubificoides brownae	O	0	1	9	16	1	1	1	10	5	14	0	4	14	19	0	0	7	18	3	10	1	2	0	0	1	0	9
Mediomastus ambiseta	P	1	43	0	16	0	30	0	0	0	5	0	0	0	0	0	2	0	13	0	0	13	0	0	0	0	11	0
Mediomastus sp.	P	0	5	12	0	1	0	0	19	0	1	4	5	1	0	0	7	9	33	2	9	9	4	3	0	1	1	1
Heteromastus filiformis	P	0	0	4	0	1	0	4	4	0	0	1	0	72	0	1	24	0	7	8	3	0	2	19	10	0	7	0
Cirratulidae	P	0	0	9	28	0	1	0	10	0	0	1	21	0	1	4	2	3	38	0	29	0	3	2	0	0	5	2
Scoloplos rubra	P	0	0	4	0	1	1	2	12	0	1	3	0	0	3	0	0	15	2	6	0	1	4	0	0	0	2	1
Tubificidae	O	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	9	2	0	1	0	19	0	1	1
Caulleriella sp.	P	0	0	0	54	0	0	0	0	0	0	0	0	0	17	0	1	0	0	0	0	1	0	0	0	0	0	0
Aricidea wassi	P	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiochaetopterus costarum oculatus	P	0	0	5	1	9	0	4	1	0	1	4	12	0	0	0	5	0	4	0	21	0	31	0	0	6	0	0
Nereis succinea	P	0	0	1	0	2	0	0	2	0	3	0	1	3	0	0	6	0	13	2	0	0	0	40	1	0	0	14
Carinomella lactea	O	1	4	19	10	0	0	3	10	0	0	0	9	0	0	1	5	0	0	0	1	2	1	2	0	2	6	0
Ilyanassa obsoleta	M	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	41	0	34	0	0	0	4	0	0	0	1	0
Exogone sp.	P	0	0	0	7	0	0	3	0	0	0	0	0	0	1	0	2	0	1	0	0	0	10	0	0	0	1	0
Phoronida	O	0	0	4	0	3	0	3	4	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	106	0	1
Nemertinea	O	0	9	1	0	1	0	0	0	1	1	0	4	3	0	0	0	3	1	4	1	0	1	1	0	0	2	5
Tubificoides heterochaetus	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tellinidae	M	0	4	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	49	0
Cirrophorus sp.	P	0	1	0	3	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	6	0	0	0	0	0	0
Rhepoxynius hudsoni	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tellina agilis	M	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraprionospio pinnata	P	14	0	2	0	1	0	1	2	6	0	0	5	0	0	6	1	0	1	0	0	0	3	0	0	1	0	0
Actiniaria	O	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	1	0	4	0	0	0	2	0
Pelecypoda	M	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	2	1	0	0	4	5	1	0	0	0	0	0
Melita nitida	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	9	0	1	3	0	0	0	2	0	0	0	20
Glycera americana	P	0	2	1	2	0	1	0	2	0	1	1	4	2	0	0	3	2	4	0	1	0	1	2	0	1	2	0
Monticellina sp.	P	0	0	0	12	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Lepidactylus dytiscus	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Brania sp.	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptonacea sp.	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Streptosyllis sp.	P	0	0	0	12	0	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	0	0	0	0	0	0	0
Notomastus lineatus	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent of total abundance		53	77	88	69	53	92	89	92	100	64	95	70	96	63	60	90	87	95	81	79	90	77	87	52	90	76	95
Mean total abundance (#/0.04m^2)		24	63	78	229	35	147	100	130	6	37	97	75	74	72	29	112	82	266	24	109	86	120	83	31	73	131	244
Mean density (#/m^2)		588	1575	1950	5713	875	3663	2500	3238	150	913	2425	1875	1850	1800	725	2800	2050	6650	600	2725	2150	2988	2063	775	1825	3263	6100
Mean number of species (#/0.04m^2)		6	18	18	31	11	11	18	17	2	11	12	19	8	10	11	23	13	20	9	23	15	28	16	6	10	26	15
H' - diversity		2.24	3.35	3.35	4.02	2.54	1.27	2.53	3.05	0.92	2.5	1.54	3.31	1.93	2.34	3.05	3.09	2.86	2.22	2.88	3.5	2.55	3.58	2.9	1.87	1.6	3.07	2.01
J' - diversity		0.87	0.8	0.81	0.82	0.75	0.37	0.68	0.76	0.92	0.74	0.44	0.87	0.64	0.77	0.89	0.69	0.77	0.51	0.91	0.78	0.7	0.77	0.73	0.76	0.52	0.67	0.53

SCECAP 2000 - Open Water
Dominant Benthic Taxa

Species Name	Higher taxa	RO00006	RO00007	RO00008	RO00009	RO00010	RO00015	RO00016	RO00017	RO00018	RO00019	RO00020	RO00021	RO00022	RO00023	RO00024	RO00033	RO00034	RO00035	RO00036	RO00037	RO00045	RO00046	RO00047	RO00048	RO00049	RO00055	RO00056	RO00057	RO00058	RO00059
Streblospio benedicti	P	4	0	4	0	8	35	42	1	1	1	38	51	0	0	0	374	2	2	1	0	45	0	0	54	0	0	26	135	192	334
Actiniaria	O	0	0	0	0	11	0	0	0	0	0	0	0	0	2	812	2	0	0	5	0	1	0	1	3	0	0	0	0	1	4
Caulleriella sp.	P	0	0	0	0	12	0	0	131	5	0	0	0	0	11	1	0	0	1	112	0	0	0	10	437	0	1	0	218	349	38
Exogone sp.	P	0	0	0	9	1	0	0	15	0	0	0	0	0	44	123	8	0	0	191	0	0	0	2	2	0	0	0	0	47	21
Ampelisca abdita	A	0	0	0	28	2	0	6	40	0	1	0	0	0	96	399	0	0	0	33	1	0	0	20	22	0	0	0	0	3	29
Mediomastus sp.	P	1	0	0	7	55	0	65	33	0	0	0	11	4	9	11	149	0	0	7	0	0	0	1	30	0	0	0	0	5	343
Monticellina sp.	P	0	0	8	0	697	0	0	6	0	8	0	0	0	3	0	24	0	0	1	0	0	0	3	45	0	0	0	0	0	6
Tubificoides wasselli	O	0	0	0	0	2	0	15	134	0	0	0	0	63	0	14	0	0	1	127	0	8	0	0	4	0	0	1	11	248	18
Scoletoma tenuis	P	0	1	0	73	49	0	1	2	0	41	0	0	0	74	112	13	0	0	43	0	0	0	7	65	0	0	0	3	6	63
Protohaustorius deichmannae	A	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296	0	0	0	0	352	36	0	0	0	0
Scoloplos rubra	P	0	0	0	5	0	0	134	0	0	2	0	1	0	1	3	6	0	0	28	0	0	0	0	0	0	0	0	0	12	88
Tubificidae	O	0	0	1	0	85	0	1	6	0	2	0	15	0	70	233	21	0	0	24	0	0	0	2	0	0	0	0	0	35	61
Tharyx acutus	P	0	0	16	0	35	0	18	2	0	0	0	0	4	5	8	8	0	0	64	0	6	0	1	76	5	0	0	13	20	122
Tubificidae sp. B	O	0	0	9	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Mediomastus ambiseta	P	3	0	0	0	112	0	4	3	0	1	0	0	9	3	3	14	0	0	7	0	0	0	0	3	0	0	0	0	3	49
Parapionosyllis sp.	P	0	0	0	0	2	0	0	39	5	0	0	0	0	1	64	1	0	0	4	0	0	0	0	1	0	0	0	3	2	3
Tubificidae sp. A	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polydora cornuta	P	0	0	0	0	0	0	8	0	0	0	0	2	0	0	0	143	0	0	0	0	0	1	1	0	0	0	0	5	4	4
Cirratulidae	P	0	0	1	1	58	0	1	0	0	0	0	0	0	13	2	0	0	0	13	2	5	0	3	61	0	0	0	0	1	64
Cyathura burbancki	O	0	0	0	0	33	1	8	0	0	2	3	2	0	69	3	11	0	0	18	0	0	0	0	11	0	0	0	0	12	11
Sabellaria vulgaris	P	0	0	0	0	0	0	0	0	0	0	0	2	0	51	19	0	0	0	88	0	0	0	2	0	0	0	0	3	1	0
Streptosyllis sp.	P	0	0	0	0	0	0	1	7	18	0	0	0	7	10	17	0	0	1	35	0	0	0	1	5	0	0	0	0	38	2
Tubificoides brownae	O	3	0	0	0	2	0	5	7	0	0	0	0	7	2	0	2	0	0	1	0	1	0	0	3	0	0	0	0	4	5
Unciola serrata	A	0	0	0	0	0	0	0	29	0	0	0	0	0	83	41	0	0	0	74	0	0	0	1	0	0	0	0	0	0	0
Aricidea wassi	P	0	0	16	0	24	0	0	19	0	0	0	0	13	0	0	0	0	2	1	0	0	0	6	12	2	7	0	16	54	0
Cirrophorus sp.	P	1	0	2	0	1	0	0	6	0	0	0	0	5	10	0	55	0	0	39	0	10	0	1	0	0	0	0	0	16	5
Carinomella lactea	O	0	0	0	0	8	0	0	1	0	0	0	0	0	2	17	11	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Spiochaetopterus costarum oculatus	P	0	0	0	17	0	0	0	0	0	56	0	0	0	0	0	50	0	0	1	0	0	0	0	0	0	0	0	0	1	24
Nemertinea	O	1	2	2	0	5	6	1	3	4	0	13	1	4	17	15	1	3	0	6	0	5	0	1	1	1	6	0	0	1	3
Tellina agilis	M	0	0	0	2	54	0	0	39	0	0	0	0	4	0	0	14	0	0	0	0	0	0	0	8	4	9	0	0	0	1
Pelecypoda	M	0	0	0	0	1	1	0	10	2	0	11	25	0	35	9	1	0	3	4	0	5	0	16	3	0	0	0	0	7	1
Turbonilla sp.	M	0	0	0	0	0	0	2	110	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	P	0	0	0	0	2	0	5	1	0	0	0	0	0	0	23	55	0	0	0	0	0	0	10	2	0	0	0	0	0	3
Rhepoxynius hudsoni	A	0	0	6	0	27	0	0	4	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	6	19	0	0	0	0	0
Prionospio sp.	P	0	0	0	0	46	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Paraprionospio pinnata	P	0	0	0	5	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0
Clymenella torquata	P	0	0	0	1	2	0	0	41	0	0	0	0	0	79	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Pinnixa sp.	O	0	0	21	0	1	0	0	31	0	0	0	0	0	0	0	21	0	0	0	2	0	0	1	1	0	0	0	0	0	3
Chiridotea stenops	O	0	152	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis succinea	P	0	0	0	2	1	0	10	0	0	1	1	23	0	4	6	0	0	0	12	0	0	0	0	0	0	0	0	0	4	0
Corophium aquafuscum	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteromastus filiformis	P	2	0	6	3	1	0	15	15	0	1	9	1	1	2	0	0	0	6	0	0	0	1	0	2	0	0	4	0	0	2
Maera caroliniana	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Podarkeopsis levifuscina	P	0	0	0	1	3	0	5	0	0	0	0	0	0	19	8	1	0	0	12	0	0	0	1	4	0	0	0	0	7	5
Nucula sp.	M	0	0	0	2	0	0	2	7	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	81
Enchytraeidae	O	0	0	0	0	0	0	0	8	20	0	0	0	0	55	14	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Glycera americana	P	0	0	1	4	9	0	5	2	0	1	0	0	0	6	1	10	0	0	2	0	0	0	2	5	0	0	0	1	1	5
Lepidactylus dytiscus	A	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0
Tubificoides heterochaetus	O	0	0	0	0	0	11	0	0	0	0	14	1	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Tellinidae	M	2	0	0	2	2	0	2	0	0	0	0	0	0	0	0	5	0	2	0	0	0	0	2	0	4	0	0	14	30	1
Ampelisca verrilli	A	0	0	0	2	0	0	0	0	0	6	0	0	0	0	1	12	0	0	0	1	0	0	0	0	0	0	0	1	0	0
Corophium simile	A	0	0	0	0	0	0	1	0	0	0	0	0	0	69	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Biffarius biformis	O	3	0	48	0	2	0	0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0
Percent of total abundance		82	77	81	73	88	59	89	87	71	66	84	84	90	93	91	85	45	86	93	89	76	87	54	96	94	55	81	92	91	92
Mean total abundance (#/0.04m^2)		14	142	88	113	771	46	201	432	41	99	53	81	68	454	1076	602	15	11	514	205	58	28	94	453	207	54	43	230	605	765
Mean density (#/m^2)		350	3550	2200	2813	19263	1150	5025	10788	1025	2463	1325	2013	1688	11350	26888	15038	363	275	12838	5113	1438	688	2338	11313	5175	1350	1075	5750	15113	19113
Mean number of species (#/0.04m^2)		8	7	20	28	47	7	28	45	12	15	12	14	12	38	49	47	5	7	40	17	13	3	26	30	14	12	6	16	46	51
H' - diversity		2.72	1.38	3.45	3.71	3.32	2.13	3.39	4.31	2.74	2.72	2.78	2.92	2.69	4.15	3.25	3.73	1.91	2.68	3.93	1.55	2.9	0.71	3.81	2.23	1	2.81	1.78	2.19	3.56	3.93
J' - diversity		0.94	0.49	0.81	0.77	0.6	0.79	0.73	0.79	0.8	0.71	0.8	0.77	0.76	0.79	0.58	0.68	0.89	0.96	0.75	0.38	0.84	0.45	0.82	0.44	0.27	0.8	0.72	0.55	0.64	0.7

SCECAP 2000 - Tidal Creeks
Dominant Benthic Taxa

Species Name	Higher taxa	RT00501	RT00502	RT00503	RT00504	RT00505	RT00517	RT00518	RT00519	RT00520	RT00521	RT00523	RT00525	RT00526	RT00528	RT00530	RT00531	RT00541	RT00542	RT00543	RT00544	RT00545	RT00546	RT00547	RT00548	RT00549	RT00550	RT00554	RT00556	RT00557	RT00558
Streblospio benedicti	P	10	0	27	293	142	25	284	100	190	36	91	127	0	2	8	0	154	90	45	177	0	1	36	46	17	13	1	9	20	176
Ampelisca abdita	A	0	0	12	16	964	0	0	17	0	132	1	5	0	0	1	0	1	0	6	0	0	0	9	0	0	0	0	22	16	4
Scoletoma tenuis	P	0	0	68	66	31	5	65	9	6	15	39	11	0	0	34	0	22	14	7	1	0	11	140	121	0	4	0	3	23	2
Tubificoides wasselli	O	546	0	0	9	0	0	0	0	20	0	0	1	0	0	0	0	15	36	0	4	0	0	0	0	0	4	0	0	0	61
Polydora cornuta	P	1	1	0	89	10	0	21	0	4	9	117	1	0	0	0	0	33	19	5	0	0	3	4	1	8	0	0	14	4	71
Tharyx acutus	P	2	0	1	72	1	10	0	0	14	0	4	15	0	0	0	0	20	17	1	32	0	60	17	3	0	0	0	37	1	2
Tubificoides brownae	O	1	14	0	58	7	0	24	64	7	19	3	0	0	0	11	1	2	25	18	0	0	1	0	7	2	2	0	20	63	0
Mediomastus ambiseta	P	3	0	19	6	68	14	0	3	32	33	4	10	0	0	31	0	22	23	10	25	0	19	27	0	0	2	0	4	0	0
Mediomastus sp.	P	5	0	26	0	109	1	2	5	42	14	0	6	0	0	48	0	35	10	2	8	0	0	3	0	0	6	0	2	4	34
Heteromastus filiformis	P	0	0	2	5	35	0	9	0	2	49	9	5	0	10	0	6	1	11	5	0	0	0	11	18	1	0	1	3	1	19
Cirratulidae	P	4	0	22	17	3	10	0	0	14	4	0	10	0	0	1	0	6	27	0	9	0	42	5	6	0	1	0	2	0	0
Scoloplos rubra	P	8	0	0	26	62	27	0	0	1	3	8	16	0	0	3	4	1	1	2	0	0	8	0	3	0	8	0	1	4	53
Tubificidae	O	0	3	16	5	0	2	0	2	24	13	0	6	0	5	102	1	0	1	0	5	0	0	0	6	1	5	0	7	3	6
Caulleriella sp.	P	90	0	0	0	0	20	0	1	6	0	0	0	0	0	0	0	1	0	0	14	0	34	0	0	0	0	0	0	0	0
Aricidea wassi	P	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	64	0	0	0	0	0	0	0	0
Spiochaetopterus costarum oculatus	P	0	0	38	5	0	2	2	1	2	0	1	4	0	0	3	0	0	0	13	0	0	3	30	0	0	0	0	0	1	0
Nereis succinea	P	1	0	0	18	0	0	5	1	0	1	7	0	0	5	0	0	2	0	1	0	0	0	0	1	24	0	1	14	1	8
Carinomella lactea	O	0	0	14	0	0	0	0	0	28	1	0	1	0	0	16	0	10	6	3	0	0	0	0	0	0	11	0	0	0	0
Ilyanassa obsoleta	M	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0	46	4	0
Exogone sp.	P	0	0	0	6	0	0	1	0	95	7	0	0	0	0	1	0	9	0	2	0	0	0	0	0	0	0	0	0	0	0
Phoronida	O	0	0	1	0	0	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	7	0	0	5	0	0	0	0
Nemertinea	O	2	3	0	4	2	6	2	2	2	1	2	2	0	11	0	0	0	1	0	1	1	3	6	0	6	1	16	15	6	6
Tubificoides heterochaetus	O	0	0	0	0	0	0	0	0	0	0	0	0	108	2	0	0	0	0	0	0	0	0	0	0	1	0	24	0	0	0
Tellinidae	M	0	0	0	20	0	0	0	0	1	5	0	3	0	0	5	0	0	0	6	0	0	30	0	1	0	0	0	0	0	0
Cirrophorus sp.	P	2	0	0	22	0	8	0	0	0	0	0	7	0	0	0	0	1	5	0	26	0	37	1	0	0	0	0	0	0	0
Rhepoxynius hudsoni	A	0	0	0	0	0	37	0	0	0	0	0	1	0	0	0	0	0	0	0	64	0	20	0	0	0	0	0	0	0	0
Tellina agilis	M	0	0	11	0	0	45	0	0	0	0	0	0	0	0	0	0	2	5	0	33	1	3	15	0	0	0	0	0	1	0
Paraprionospio pinnata	P	0	0	4	0	0	0	0	32	3	4	0	1	0	0	4	1	0	0	7	0	0	0	1	3	0	2	5	0	3	0
Actiniaria	O	0	0	0	34	1	0	0	0	32	0	0	0	0	0	1	0	2	0	16	0	0	0	0	0	1	0	0	1	0	1
Pelecypoda	M	0	0	13	3	4	0	0	1	5	0	1	1	0	3	1	0	11	1	3	0	1	0	7	0	0	0	1	3	8	2
Melita nitida	A	0	0	0	25	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	2	0	0	3	2	4
Glycera americana	P	0	1	10	0	3	4	0	0	2	2	5	1	0	0	0	0	5	3	3	1	0	1	2	2	0	1	0	0	0	1
Monticellina sp.	P	0	0	0	0	0	0	0	0	3	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6
Lepidactylus dytiscus	A	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brania sp.	P	0	0	0	37	1	0	0	0	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7
Leptonacea sp.	M	0	0	60	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0
Streptosyllis sp.	P	3	5	0	0	0	0	0	5	14	0	0	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	13
Notomastus lineatus	P	0	0	60	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent of total abundance		99	92	69	84	95	86	98	84	72	88	95	93	99	72	83	45	79	98	92	94	6	89	83	91	66	60	91	86	71	72
Mean total abundance (#/0.04m^2)		342	49	291	501.5	756.5	157	211.5	145.5	398.5	200.5	154	128	54.5	26.5	184.5	14.5	224.5	160	85	271.5	24.5	191	194.5	123.5	48	58.5	27	120	117	332
Mean density (#/m^2)		8550	1225	7275	12538	18913	3925	5288	3638	9963	5013	3850	3200	1363	663	4613	363	5613	4000	2125	6788	613	4775	4863	3088	1200	1463	675	3000	2925	8300
Mean number of species (#/0.04m^2)		13	8	34	33	25	19	11	20	47	29	16	21	2	9	28	7	29	18	19	22	9	26	24	15	10	23	8	22	22	34
H' - diversity		1.12	1.44	4.23	3.36	1.86	3.45	1.6	2.9	4.07	3.43	2.48	2.81	0.05	2.77	3.5	2.44	3.42	3.13	3.42	2.93	2.63	3.55	3.33	2.41	2.65	3.87	2.18	3.65	3.36	3.49
J' - diversity		0.31	0.52	0.83	0.68	0.4	0.81	0.47	0.68	0.74	0.71	0.62	0.64	0.05	0.88	0.73	0.91	0.71	0.76	0.81	0.66	0.86	0.76	0.73	0.62	0.8	0.87	0.75	0.83	0.76	0.69

Appendix 4.2. Mean abundance of species comprising 95% of the total fauna collected in each habitat type by trawls during 1999 and 2000. Abundance represents the number of individuals per hectare.

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Species Name	RO99302	RO99303	RO99304	RO99305	RO99306	RO99307	RO99308	RO99309	RO99310	RO99311	RO99312	RO99313	RO99315	RO99316	RO99317	RO99318	RO99319	RO99320	RO99321	RO99322	RO99323	RO99324	RO99325	RO99326	RO99327	RO99328	RO99329	RO99330
Stellifer lanceolatus	0	0	0	0	0	0	2149	0	18	0	0	0	0	22	0	4	0	0	0	0	0	0	0	0	0	156	0	0
Penaeus setiferus	0	51	0	0	0	94	0	4	7	0	0	98	1402	69	0	11	4	0	65	0	0	7	0	272	0	11	0	69
Bairdiella chrysoura	0	870	0	0	0	0	0	0	0	0	33	14	192	0	0	0	0	22	0	14	0	0	0	0	0	47	0	33
Lolliguncula brevis	0	43	188	4	7	0	7	0	7	0	36	0	14	0	43	43	0	207	0	40	46	149	80	4	7	7	54	43
Anchoa mitchilli	0	0	0	0	0	4	7	0	36	43	7	0	58	62	51	11	0	4	11	0	107	58	0	65	65	0	83	25
Cynoscion regalis	0	65	0	0	0	4	134	0	7	0	33	0	0	0	7	7	0	0	0	0	4	0	0	7	0	54	0	0
Penaeus aztecus	0	25	4	4	0	29	4	11	7	4	22	22	0	0	4	29	0	0	0	11	0	4	0	0	0	0	0	54
Leiostomus xanthurus	0	7	0	0	0	7	0	7	0	0	25	0	14	4	18	4	0	4	4	0	18	58	0	0	4	0	0	11
Anchoa hepsetus	0	4	0	76	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	25	7	0	33	0	0	0	0	4
Chaetodipterus faber	0	36	0	0	7	0	0	0	4	0	0	18	11	0	0	0	0	7	0	0	0	0	0	0	0	43	0	7
Lagodon rhomboides	0	0	0	0	36	0	0	0	0	0	40	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	14
Micropogonias undulatus	0	18	0	0	0	7	36	0	0	0	4	0	0	0	0	0	0	4	0	7	0	0	0	4	0	7	0	0
Callinectes similis	0	14	0	0	0	0	4	0	0	0	0	0	0	0	0	14	0	0	4	0	0	4	0	4	4	11	0	0
Selene setapinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0
Percent of total abundance	n/a	97	95	79	87	91	99	100	86	81	96	98	98	96	97	89	33	92	68	77	93	92	89	99	81	94	97	92
Mean total abundance (#/hectare)	0	1167	203	105	58	159	2362	22	101	58	207	156	1725	163	130	138	11	268	123	127	196	304	127	413	98	359	141	283
Mean total biomass (#/hectare)	0	6.91	2.05	0.24	2.34	2.08	9.43	0.40	0.52	0.23	2.43	1.49	10.61	0.62	1.99	1.37	0.11	1.72	1.00	2.17	1.54	2.11	5.21	3.54	1.29	3.13	1.01	3.24
Mean number of species (#/trawl)	0	11.0	3.0	3.5	2.5	6.5	7.0	1.5	7.5	3.0	8.0	4.0	8.0	4.5	4.5	7.5	1.0	6.5	6.0	6.5	5.5	7.0	2.5	5.5	4.5	9.0	2.5	11.0
H' -- Diversity	0	1.64	0.51	1.51	1.55	2.05	0.60	1.46	2.92	1.31	2.93	1.62	1.07	1.81	2.12	2.97	0.92	1.37	2.16	2.94	1.95	2.18	1.28	1.54	1.83	2.54	1.12	3.12
J' -- Evenness	0	0.42	0.22	0.54	0.77	0.62	0.19	0.92	0.84	0.56	0.88	0.70	0.31	0.70	0.75	0.83	0.92	0.43	0.72	0.85	0.65	0.63	0.81	0.51	0.61	0.74	0.70	0.82
Species richness	0	2.42	0.99	1.78	1.08	2.38	1.23	1.12	3.00	1.44	2.23	1.06	1.62	1.31	1.67	3.02	0.91	1.86	1.99	2.81	1.75	2.26	0.56	1.48	2.12	2.18	0.55	2.98

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Species Name	RT99001	RT99003	RT99004	RT99005	RT99006	RT99007	RT99008	RT99009	RT99010	RT99012	RT99013	RT99017	RT99019	RT99021	RT99022	RT99024	RT99026	RT99027	RT99028	RT99029	RT99030	RT99036	RT99037	RT99038	RT99039	RT99040
Penaeus setiferus	0	22	297	14	283	536	0	312	993	906	268	36	1703	123	196	775	0	0	14	109	652	0	0	43	29	1493
Penaeus aztecus	152	601	0	7	0	0	43	0	0	0	478	0	0	43	14	0	1826	22	0	0	0	94	0	7	14	0
Bairdiella chrysoura	7	14	29	275	0	116	551	7	36	14	159	43	29	87	29	254	14	116	0	29	420	232	0	58	7	51
Leiostomus xanthurus	7	355	65	14	14	29	101	319	29	0	188	29	58	43	29	0	442	80	0	0	36	0	0	7	22	14
Anchoa mitchilli	0	14	0	0	159	22	94	109	14	7	0	51	65	29	58	290	22	101	145	0	312	14	0	196	0	0
Lolliguncula brevis	0	51	58	101	7	0	210	7	0	14	7	0	29	43	14	0	87	145	43	0	29	14	0	72	7	109
Cynoscion regalis	0	43	14	0	0	0	7	87	0	0	72	0	0	0	0	0	123	0	0	0	0	14	0	0	0	7
Lagodon rhomboides	0	0	29	0	14	43	29	0	0	0	0	58	7	0	0	0	58	65	0	0	0	14	7	0	0	0
Trinectes maculatus	43	65	0	0	0	0	0	0	0	36	87	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Micropogonias undulatus	36	58	0	0	7	0	0	36	0	0	43	0	0	0	0	0	7	0	0	29	0	7	0	0	0	0
Percent of total abundance	94	93	83	79	93	94	97	97	99	99	97	75	100	91	84	99	100	99	76	100	97	93	50	72	75	97
Mean total abundance (#/hectare)	261	1312	594	522	522	790	1065	906	1080	993	1326	290	1891	406	406	1333	2587	536	268	167	1493	420	14	536	145	1725
Mean total biomass (#/hectare)	4.80	16.41	5.22	7.87	4.47	7.76	7.01	5.43	11.42	6.58	12.88	6.29	10.15	1.72	3.57	6.93	15.41	2.96	1.64	3.80	14.48	10.20	0.72	6.58	2.88	15.36
Mean number of species (#/trawl)	4.5	12.0	9.0	7.0	6.5	7.0	8.0	8.0	3.0	4.5	8.5	9.0	4.5	6.0	8.5	4.0	7.5	5.5	6.0	3.0	6.5	5.5	1.0	10.0	6.5	6.5
H' -- Diversity	1.85	2.39	2.55	2.06	1.86	1.66	2.13	2.27	0.55	0.61	2.57	3.11	0.67	2.79	2.56	1.47	1.43	2.49	2.06	1.28	1.95	2.06	1.00	3.04	2.95	0.89
J' -- Evenness	0.66	0.65	0.71	0.69	0.56	0.52	0.67	0.66	0.24	0.24	0.77	0.90	0.26	0.84	0.74	0.63	0.45	0.89	0.73	0.81	0.62	0.65	1.00	0.80	0.93	0.27
Species richness	1.67	2.31	2.50	1.64	2.10	1.71	1.60	2.07	0.80	1.02	1.73	2.71	0.90	2.24	2.48	0.77	1.36	1.39	1.66	0.64	1.50	1.97	1.44	3.02	2.67	1.64

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Species Name	RO00006	RO00007	RO00008	RO00009	RO00010	RO00015	RO00016	RO00017	RO00018	RO00019	RO00020	RO00021	RO00022	RO00023	RO00024	RO00033	RO00034	RO00035	RO00036	RO00037	RO00045	RO00046	RO00047	RO00048	RO00049	RO00055	RO00056	RO00057	RO00058	RO00059
Micropogonias undulatus	163	0	0	0	0	7	14	1058	4	0	7	11	0	0	4	0	33	4	4	0	4	69	11	4	0	0	33	0	22	0
Stellifer lanceolatus	51	0	0	0	0	446	0	14	0	0	0	7	254	0	0	0	0	232	0	0	0	326	0	0	0	0	0	0	0	0
Penaeus aztecus	467	0	36	4	0	4	112	373	33	4	62	22	4	0	0	0	0	51	0	7	4	11	22	0	0	0	11	4	25	0
Penaeus setiferus	163	0	0	0	0	54	33	4	0	4	301	127	0	0	0	0	22	4	0	0	0	192	0	0	0	0	33	319	0	0
Anchoa mitchilli	0	0	11	562	0	0	29	4	0	0	80	0	0	0	0	250	0	0	0	0	11	0	11	0	0	0	0	0	14	0
Lolliguncula brevis	25	0	25	181	0	0	105	36	4	105	0	22	0	7	11	4	0	22	47	7	22	0	25	0	29	25	7	33	25	116
Cynoscion regalis	25	0	0	0	0	91	14	167	7	0	65	62	4	7	43	0	83	47	4	4	25	4	4	0	0	0	11	7	36	0
Leiostomus xanthurus	87	7	0	11	0	4	58	7	0	178	0	0	0	0	0	4	0	22	0	0	7	0	18	0	0	0	29	4	109	4
Bairdiella chrysoura	11	0	0	0	0	4	58	0	0	0	0	0	0	4	0	14	58	0	7	7	0	0	11	0	0	22	47	4	11	0
Callinectes sapidus	11	0	0	4	0	80	4	0	4	0	7	4	0	0	0	7	69	43	0	0	0	18	0	0	0	0	0	0	0	0
Callinectes similis	4	0	0	0	0	4	25	62	0	0	4	7	0	0	0	7	0	0	0	0	0	11	4	0	0	0	4	0	4	0
Chaetodipterus faber	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	0	0	0	0	11	0	22	0	0
Trinectes maculatus	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	62	4	0	0	0	0	0	0	0	4	4	4	0	0
Percent of total abundance	98	8	95	100	n/a	95	93	98	100	93	100	100	100	83	94	99	100	96	89	64	87	96	94	100	50	50	98	99	99	82
Mean total abundance (#/hectare)	1101	87	76	761	0	725	489	1779	51	312	525	261	261	22	62	290	330	449	69	40	87	659	112	4	58	123	181	399	250	145
Mean total biomass (#/hectare)	18.72	18.62	0.62	1.84	0	10.68	6.63	23.37	0.41	5.84	2.97	2.50	0.71	0.99	1.84	1.75	2.27	3.83	0.69	1.62	1.32	3.45	1.14	0.11	0.33	6.07	1.21	4.71	3.90	1.06
Mean number of species (#/trawl)	12.5	2.0	3.0	4.0	0	8.5	12.0	12.0	3.0	4.5	6.5	6.5	2.0	2.5	3.0	4.5	6.0	9.5	3.5	4.0	5.5	6.5	6.5	0.5	1.5	6.0	7.0	6.0	7.5	3.0
H' -- Diversity	2.65	1.04	1.65	0.98	0	1.90	3.24	1.88	1.63	1.51	1.83	2.16	0.21	1.92	1.28	0.90	2.53	2.40	1.61	2.91	2.76	1.97	2.99	0	1.00	2.76	2.83	1.20	2.51	1.03
J' -- Evenness	0.66	0.66	0.82	0.42	0	0.55	0.79	0.46	0.70	0.54	0.65	0.72	0.13	0.96	0.64	0.32	0.90	0.65	0.62	0.97	0.87	0.62	0.90	0	1.00	0.87	0.85	0.38	0.79	0.44
Species richness	2.62	0.63	0.99	0.75	0	1.89	3.26	2.58	1.52	1.35	1.21	1.64	0.47	1.67	1.06	1.37	1.33	2.49	1.70	2.92	2.52	1.54	2.62	0	0.36	2.27	2.30	1.70	1.89	1.08

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Species Name	RT00501	RT00502	RT00503	RT00504	RT00505	RT00517	RT00518	RT00519	RT00520	RT00521	RT00523	RT00525	RT00526	RT00528	RT00530	RT00531	RT00541	RT00542	RT00543	RT00544	RT00545	RT00546	RT00547	RT00548	RT00549	RT00550	RT00554	RT00556	RT00557	RT00558
Penaeus setiferus	7	0	22	0	29	0	5159	0	7	36	594	0	275	0	319	0	0	29	0	0	0	7	101	181	420	0	22	1820	652	22
Leiostomus xanthurus	7	0	174	22	7	29	174	22	0	0	87	0	0	196	36	29	7	135	94	51	0	22	181	2457	29	0	0	99	51	22
Bairdiella chrysoura	14	0	196	0	29	0	268	14	79	101	116	29	0	0	29	0	0	14	0	188	0	7	51	1065	14	0	0	280	72	239
Penaeus aztecus	0	0	14	0	0	0	0	36	0	72	188	14	72	797	65	0	0	7	22	72	0	7	65	341	210	0	0	8	43	22
Lolliguncula brevis	36	0	14	51	36	94	14	22	29	14	0	72	0	333	0	43	7	183	58	152	7	0	51	167	0	43	101	33	51	51
Anchoa mitchilli	167	0	0	246	43	87	159	7	0	116	14	0	0	0	0	0	36	14	268	58	0	0	36	58	0	0	36	16	51	36
Lagodon rhomboides	0	0	0	0	7	0	0	0	6	7	22	14	0	7	420	0	0	79	0	116	7	0	0	101	65	109	0	0	0	29
Callinectes sapidus	0	0	7	22	7	0	7	0	0	0	80	0	0	51	7	7	0	35	0	0	0	0	152	36	14	7	14	8	217	0
Callinectes similis	0	0	58	0	0	7	58	0	7	7	0	0	0	7	0	7	0	21	0	58	0	0	0	7	0	0	0	0	29	0
Eucinostomus gula	0	0	0	0	0	0	0	0	0	0	0	14	0	0	94	0	0	0	0	22	0	0	101	0	0	7	0	0	0	0
Micropogonias undulatus	14	0	0	0	0	0	43	0	0	0	14	7	29	43	0	0	0	0	22	0	0	7	14	7	14	0	0	8	0	0
Cynoscion regalis	0	0	29	0	7	0	7	0	0	0	0	0	7	7	0	0	0	0	36	0	0	0	0	0	14	0	72	0	0	0
Brevoortia tyrannus	0	0	0	0	0	0	0	0	0	0	0	0	0	130	0	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0
Percent of total abundance	100	n/a	88	96	96	94	98	100	91	91	92	95	91	100	91	92	64	85	93	87	50	87	83	98	98	77	85	100	94	98
Mean total abundance (#/hectare)	246	0	587	355	174	232	6007	101	142	391	1210	159	420	1572	1065	94	80	606	536	826	29	58	913	4514	804	217	290	2273	1239	428
Mean total biomass (#/hectare)	0.71	0	8.15	3.03	1.60	1.60	46.34	1.09	5.33	2.71	21.03	1.01	4.01	19.62	12.37	0.95	1.83	7.50	6.04	17.54	0.54	1.64	18.58	28.36	8.98	13.48	2.79	17.36	16.39	2.30
Mean number of species (#/trawl)	3.5	0	10.5	5.0	5.5	4.0	11.5	3.0	3.5	7.5	11.0	4.5	5.0	7.0	10.5	3.5	3.5	12.0	6.5	13.0	2.0	3.0	15.0	11.5	7.5	6.5	4.5	6.0	11.0	5.5
H' -- Diversity	1.57	0	2.81	1.49	2.79	1.90	1.00	2.16	1.87	2.64	2.53	2.31	1.64	2.05	2.46	1.89	2.40	3.07	2.28	2.69	1.50	2.41	3.61	2.05	2.06	2.37	2.31	1.05	2.20	2.15
J' -- Evenness	0.61	0	0.72	0.58	0.88	0.74	0.24	0.93	0.72	0.80	0.65	0.82	0.58	0.65	0.69	0.81	0.86	0.77	0.72	0.62	0.95	0.93	0.82	0.54	0.60	0.71	0.89	0.35	0.58	0.72
Species richness	1.42	0	3.19	1.28	2.52	1.44	2.38	1.52	1.64	2.26	2.74	1.94	1.48	1.49	2.20	1.56	2.50	3.34	1.86	3.50	1.44	2.40	4.14	2.02	2.12	2.65	1.36	1.25	2.23	1.72

Appendix 4.3. Summary the average (mean), minimum, standard deviation, and method detection limits for all contaminant analytes measured in fish tissue (whole body) samples collected at sites sampled in 2000.

SCECAP 2000

Tissue contaminant summary: mean, maximum, standard deviation, and method detection limit for all analytes acoss all stations in 2000. Concentrations are expressed as wet weight. Units for metals are ug/g and for PAHs, PCBs and Pesticides are ng/g.

Class	Analyte	Mean	Maximum	Standard Deviation	Method Detection Limit
Metals	Aluminum*	18.509	36.163	7.651	0.070
Metals	Arsenic	1.209	4.282	0.773	0.001
Metals	Cadmium	0.001	0.024	0.004	0.000
Metals	Chromium*	0.306	0.954	0.178	0.009
Metals	Copper	0.741	2.347	0.380	0.004
Metals	Iron	34.663	64.131	8.947	0.179
Metals	Lead	0.092	0.927	0.128	0.001
Metals	Manganese	6.720	17.751	3.032	0.004
Metals	Mercury	0.001	0.012	0.002	0.005
Metals	Nickel	1.185	2.501	0.301	0.001
Metals	Selenium	0.212	0.561	0.090	0.011
Metals	Silver	0.000	0.000	0.000	0.007
Metals	Tin	0.012	0.633	0.085	0.002
Metals	Zinc	15.563	53.156	5.935	0.099
PAH	1,6,7 Trimethylnaphthalene	0.108	6.056	0.809	1.773
PAH	1-Methylnaphthalene*	0.314	7.386	1.354	3.808
PAH	1-Methylphenanthrene	0.000	0.000	0.000	3.517
PAH	2,6 Dimethylnaphthalene	0.512	7.915	1.696	3.546
PAH	2-Methylnaphthalene	1.050	18.044	3.164	5.232
PAH	Acenaphthene	0.000	0.000	0.000	6.134
PAH	Acenaphthylene	0.029	1.650	0.220	1.599
PAH	Anthracene*	1.398	78.293	10.462	3.285
PAH	Benzo(a)anthracene	0.213	11.918	1.593	7.238
PAH	Benzo(a)pyrene	0.000	0.000	0.000	9.186
PAH	Benzo(b)fluoranthene	0.203	11.356	1.517	5.610
PAH	Benzo(e)pyrene	0.141	7.911	1.057	4.243
PAH	Benzo(g,h,i)perylene	0.124	6.961	0.930	5.756
PAH	Benzo(j+k)fluoranthene	0.183	10.272	1.373	4.796
PAH	Biphenyl**	1.983	12.094	3.526	5.989
PAH	Chrysene+Triphenylene	0.315	17.631	2.356	2.064
PAH	Dibenz(a,h+a,c)anthracene	0.000	0.000	0.000	1.541
PAH	Dibenzothiophene	0.060	1.363	0.227	0.184
PAH	Fluoranthene	0.491	22.895	3.110	4.040
PAH	Fluorene	0.318	14.565	1.987	2.646
PAH	Indeno(1,2,3-cd)pyrene	0.000	0.000	0.000	8.926
PAH	Naphthalene	0.000	0.000	0.000	9.535
PAH	PAH_Total	8.231	228.244	30.620	
PAH	Perylene	0.000	0.000	0.000	5.350
PAH	Phenanthrene	0.526	24.622	3.341	3.168
PAH	Pyrene	0.262	11.693	1.606	2.965
PCB	PCB 101	0.171	1.093	0.211	0.022
PCB	PCB 104	0.000	0.000	0.000	0.022
PCB	PCB 105	0.038	0.247	0.051	0.027
PCB	PCB 118	0.158	0.867	0.154	0.015
PCB	PCB 126	0.001	0.029	0.004	0.029
PCB	PCB 128	0.040	0.278	0.057	0.015

Class	Analyte	Mean	Maximum	Standard Deviation	Method Detection Limit
PCB	PCB 138	0.237	3.073	0.443	0.039
PCB	PCB 153	0.839	7.336	1.058	0.022
PCB	PCB 154	0.248	1.296	0.242	0.022
PCB	PCB 170	0.087	0.932	0.158	0.034
PCB	PCB 18	0.038	0.083	0.025	0.033
PCB	PCB 180	0.215	2.082	0.324	0.023
PCB	PCB 187	0.290	3.247	0.448	0.011
PCB	PCB 188	0.000	0.000	0.000	0.022
PCB	PCB 195	0.006	0.146	0.022	0.026
PCB	PCB 201	0.035	0.701	0.095	0.022
PCB	PCB 206	0.147	3.743	0.495	0.021
PCB	PCB 209	0.043	0.736	0.105	0.022
PCB	PCB 28	0.050	0.157	0.053	0.043
PCB	PCB 29	0.031	0.190	0.034	0.022
PCB	PCB 44	0.042	0.121	0.022	0.011
PCB	PCB 50	0.072	0.176	0.034	0.022
PCB	PCB 52	0.137	0.377	0.093	0.015
PCB	PCB 66	0.085	0.425	0.086	0.013
PCB	PCB 77	0.090	0.845	0.220	0.329
PCB	PCB 8	0.151	0.349	0.043	0.028
PCB	PCB 87	0.021	0.147	0.037	0.022
PCB	PCB Total	3.273	27.496	3.950	
Pesticide	2,4'-DDD	0.004	0.067	0.012	0.013
Pesticide	2,4'-DDE	0.009	0.100	0.022	0.013
Pesticide	2,4'-DDT	0.000	0.000	0.000	0.032
Pesticide	4,4'-DDD	0.103	0.607	0.121	0.053
Pesticide	4,4'-DDE	1.632	17.679	2.308	0.007
Pesticide	4,4'-DDT	0.012	0.302	0.052	0.003
Pesticide	Aldrin	0.000	0.009	0.001	0.003
Pesticide	Chlorpyrifos	0.190	1.392	0.278	0.022
Pesticide	Cis-chlordane (alpha-chlordane)	0.000	0.026	0.004	0.018
Pesticide	DDT Total	1.760	18.129	2.385	
Pesticide	Dieldrin	0.099	0.815	0.119	0.040
Pesticide	Endosulfan ether	0.002	0.057	0.009	0.022
Pesticide	Endosulfan I	0.018	0.347	0.058	0.022
Pesticide	Endosulfan II	0.004	0.146	0.022	0.022
Pesticide	Endosulfan Lactone	0.000	0.000	0.000	0.022
Pesticide	Endosulfan Sulfate	0.138	1.718	0.295	0.022
Pesticide	Gamma-HCH (g-BHC, lindane)	0.031	0.075	0.018	0.017
Pesticide	Heptachlor	0.028	0.120	0.018	0.009
Pesticide	Heptachlor epoxide	0.015	0.195	0.034	0.022
Pesticide	Hexachlorobenzene	0.011	0.108	0.017	0.014
Pesticide	Mirex	0.162	3.351	0.543	0.034
Pesticide	Trans-nonachlor	0.074	0.798	0.108	0.021

*Recovery rates for these analytes were low. Actual values are probably higher than indicated by this dataset.

**Recovery rates for these analytes were high. Actual values are probably lower than indicated by this dataset.

Appendix 4.4. Listing of fish species collected for contaminant analyses and contaminant levels found. Contaminant values exceeding the 90th percentile of the entire database are also summarized.

SCECAP 2000 -- Open Water
Tissue Contaminant Levels

	Fish Characteristics			Total Contaminants by Class*				90th Percentile** Exceedences					
Station	Fish Species	Mean Length	N	Metals ug/g	PAHs ng/g	DDTs ng/g	PCBs ng/g	Total	Metals	PAHs	PCBs	Pest	Develop
RO00006	spot	2.3	1	72.32	0.00	2.78	5.17	12	1	0	7	4	R<1
RO00007	spot	1.7	0	81.59	6.47	1.04	3.85	3	2	0	1	0	I>1
RO00008	weakfish	0.9	1	76.19	9.11	1.13	1.76	6	2	1	0	3	R>1
RO00009	spot	2.6	1	62.60	23.03	2.53	3.75	12	0	5	2	5	I>1
RO00015	spot	1.4	0	89.04	0.00	3.46	5.76	17	2	0	9	6	I>1
RO00016	spot	1.9	2	92.18	0.12	0.63	1.40	5	5	0	0	0	R<1
RO00017	atlantic croaker	2.5	1	83.49	0.00	1.12	1.70	6	4	0	0	2	R>1
RO00018	atlantic croaker	2.3	0	90.55	0.00	0.76	1.54	2	1	0	0	1	NDV
RO00019	spot	2.2	1	77.85	0.00	1.23	1.66	0	0	0	0	0	R<1
RO00020	atlantic croaker	2.1	1	71.44	0.00	1.63	5.73	13	0	0	11	2	I>1
RO00021	atlantic croaker	2.6	1	84.46	7.65	1.40	2.59	1	0	1	0	0	NDV
RO00022	weakfish	1.4	0	85.01	16.42	0.78	0.99	4	2	2	0	0	R<1
RO00023	atlantic croaker	2.1	0	56.46	16.82	1.89	4.78	11	1	2	4	4	R>1
RO00024	atlantic croaker	2.8	0	73.65	0.00	0.87	1.73	4	2	0	0	2	R<1
RO00033	spot	2.3	0	64.73	0.00	1.24	4.65	6	1	0	4	1	R<1
RO00034	atlantic croaker	2.2	2	75.68	0.00	2.11	4.43	8	0	0	7	1	NDV
RO00035	spot	2.4	1	72.13	0.00	3.40	2.40	2	0	0	0	2	R>1
RO00036	atlantic croaker	2.5	0	89.05	15.33	1.69	1.77	8	4	2	0	2	R>1
RO00037	weakfish	1.9	0	77.64	0.00	0.70	1.28	2	1	0	1	0	R>1
RO00045	spot	1.9	1	74.81	7.84	1.94	2.07	6	1	3	2	0	R<1
RO00046	atlantic croaker	2.0	2	73.44	12.16	2.13	5.90	13	1	1	10	1	NDV
RO00047	spot	2.1	1	78.72	0.00	1.33	1.61	2	1	0	0	1	R>1
RO00048	spot	2.7	0	70.31	0.00	2.94	4.28	6	0	0	2	4	R<1
RO00055	silver perch	4.8	1	50.51	7.10	0.97	2.28	5	3	0	0	2	R>1
RO00056	spot	1.6	2	67.75	228.24	2.57	11.85	35	1	13	18	3	I<1
RO00057	spot	3.0	0	69.13	0.00	18.13	2.79	4	0	0	0	4	R<1
RO00058	spot	2.4	4	94.85	0.00	2.19	2.86	8	3	0	4	1	R>1
RO00059	spot	2.3	0	78.72	0.00	0.63	1.22	1	1	0	0	0	R<1
90th percentile**				98.13	15.29	2.67	5.74						

*all contaminants are expressed as wet weight

**90th percentile is based on all open water and tidal creek stations. Shading represents stations that exceed the 90th percentile.

† development code: NDV, no development visible. R>1, residential development > 1 km away. R<1, residential development < 1 km away.
I>1, industrial development > 1 km away. I<1, industial development < 1 km away

SCECAP 2000 -- Tidal Creeks
Tissue Contaminant Levels

	Fish Characteristics			Total Contaminants by Class*				90th Percentile** Exceedences					
Station	Fish Species	Mean Length (cm)	N	Metals ug/g	PAHs ng/g	DDTs ng/g	PCBs ng/g	Total	Metals	PAHs	PCBs	Pest	Develop
RT00501	spot	2.2	0	78.06	0.00	0.42	1.05	1	0	0	0	1	NDV
RT00503	spot	2.0	1	68.63	0.00	2.36	2.46	1	1	0	0	0	R<1
RT00504	spot	2.0	1	84.33	6.61	1.17	1.38	6	0	0	1	5	R<1
RT00505	silver perch	2.6	1	71.16	0.00	1.97	3.08	6	1	0	0	5	NDV
RT00517	spot	0.9	1	64.29	0.00	0.63	1.15	0	0	0	0	0	NDV
RT00518	spot	2.1	2	98.43	0.00	1.62	1.07	1	0	0	1	0	R>1
RT00519	spot	2.4	1	67.59	0.23	1.71	2.03	5	3	1	0	1	R<1
RT00520	silver perch	4.2	1	65.00	14.47	1.35	3.14	6	0	2	0	4	R<1
RT00521	silver perch	1.5	8	71.33	12.09	0.95	1.70	2	1	1	0	0	NDV
RT00523	spot	1.9	2	91.30	0.00	0.59	0.87	2	2	0	0	0	R<1
RT00525	spot	1.9	1	93.05	0.20	0.36	1.01	4	3	1	0	0	NDV
RT00526	atlantic croaker	1.3	1	74.60	15.24	2.26	8.13	23	2	2	12	7	R<1
RT00528	spot	1.6	6	117.72	5.95	0.71	0.80	4	4	0	0	0	NDV
RT00530	spot	1.8	1	77.79	5.03	0.64	1.73	2	0	1	1	0	NDV
RT00531	spot	1.6	1	64.43	0.00	1.70	5.63	6	0	0	6	0	R<1
RT00541	spot	2.2	0	62.58	0.00	0.46	0.91	1	0	0	0	1	R>1
RT00542	spot	1.6	4	72.12	0.00	1.47	2.49	0	0	0	0	0	R<1
RT00543	spot	2.1	2	124.53	8.39	0.79	1.38	4	2	1	0	1	R>1
RT00544	spot	2.0	1	116.83	0.00	1.04	4.17	7	2	0	3	2	R<1
RT00546	spot	2.4	0	83.14	5.69	0.69	1.39	2	2	0	0	0	R>1
RT00547	spot	1.7	2	74.98	0.00	0.99	1.52	1	1	0	0	0	NDV
RT00548	spot	1.4	16	97.82	5.20	0.77	1.38	6	2	1	0	3	R>1
RT00549	spot	1.4	2	86.49	0.00	1.77	8.02	13	0	0	13	0	R<1
RT00550	silver perch	3.7	0	53.90	25.43	4.40	27.50	29	2	2	18	7	R<1
RT00554	spot	1.0	0	105.59	0.00	0.90	1.15	8	2	0	1	5	I>1
RT00556	spot	2.5	2	75.64	0.00	1.20	1.57	4	2	0	0	2	R<1
RT00557	spot	1.8	2	61.47	0.21	1.82	4.14	9	1	1	6	1	R>1
RT00558	spot	2.0	1	98.85	5.92	0.61	0.63	2	1	0	1	0	R<1
90th percentile				98.13	15.29	2.67	5.74						

*all contaminants are expressed as wet weight

**90th percentile is based on all open water and tidal creek stations. Shading represents stations that exceed the 90th percentile.

† development code: NDV, no development visible. R>1, residential development > 1 km away. R<1, residential development < 1 km away. I>1, industrial development > 1 km away. I<1, industial development < 1 km away

Appendix 5.1. Summary of integrated measures of water quality, sediment quality, and biological condition (based on the Benthic Index of Biological Integrity), and the overall integrated measure of habitat quality using a combination of the three measures. Station location information is also provided. Scores coding as green represent good conditions, yellow represents marginal conditions, and red indicates poor conditions. The actual values of the integrated scores are also shown to allow the reader to see where the values falls within the above general coding criteria. See text for further details on ranges of values representing good, marginal and poor for each integrated score.

SCECAP 1999 -- Open Water
Integrated Assessment

Station	Water Quality								Sediment Quality			Biological Condition		Overall		County	Location
	Dissolved Oxygen	Fecal Coliform	pH	Bio. Oxy. Demand	Total Nitrogen	Total Phosphorus	Integrated Score		Toxicity	Contaminants	Integrated Score	Benthic IBI		Integrated Score			
RO99301							5.0				5		4.0		4.7	Charleston	Off of Wando River in Nowell Creek
RO99302							3.8				4		3.0		3.6	Colleton	Upper Ashepoo River
RO99303							4.0				5		4.0		4.3	Beaufort	In Beaufort River off Parris Island
RO99304							4.2				5		4.5		4.6	Beaufort	Lower Okatie River
RO99305							5.0				5		4.5		4.8	Beaufort	Lower Chechesee River
RO99306							4.6				4		4.0		4.2	Georgetown	Lower Murrell's Inlet
RO99307							3.8				4		4.0		3.9	Georgetown	South Santee River near Highway 17 bridge
RO99308							5.0				5		4.0		4.7	Beaufort	Saint Helena Sound near Morgan Island
RO99309							4.3				4		3.5		3.9	Beaufort	Lower Coosaw River near Coosaw Island
RO99310							4.7				5		4.5		4.7	Beaufort	Beaufort River near Parris Island
RO99311							5.0				5		3.0		4.3	Charleston	Lower South Santee near Murphy Island
RO99312							5.0				4		4.0		4.3	Charleston	Kiawah River
RO99313							4.2				4		2.0		3.4	Beaufort	Whale Branch Creek
RO99315							3.8				5		4.0		4.3	Beaufort	Upper May River
RO99316							4.5				2		1.5		2.7	Georgetown	Winyah Bay near City of Georgetown
RO99317							4.7				5		4.0		4.6	Charleston	Near confluence of Folly River and Stono River
RO99318							4.7				5		4.5		4.7	Beaufort	Lower Morgan River
RO99319							4.2				4		4.0		4.1	Beaufort	Parrot Creek on Morgan Island
RO99320							5.0				4		4.5		4.5	Beaufort	Lower May River
RO99321							4.2				3		2.5		3.2	Georgetown	Winyah Bay
RO99322							4.7				3		3.0		3.6	Charleston	Charleston Harbor near Patriots Point
RO99323							5.0				4		4.0		4.3	Charleston	North Edisto River near mouth of Leadenwah Creek
RO99324							3.8				3		3.5		3.4	Beaufort	Buzzard Creek in Broad River
RO99325							4.2				5		4.5		4.6	Beaufort	Lower Chechesee River
RO99326							4.3				5		2.5		3.9	Georgetown	Winyah Bay near Marsh Island
RO99327							5.0				5		4.0		4.7	Charleston	Stono River
RO99328							4.7				5		4.5		4.7	Charleston	Lower South Edisto River near Saint Pierre Creek
RO99329							5.0				5		5.0		5.0	Beaufort	Beaufort River near City of Beaufort
RO99330							4.0				4		4.0		4.0	Beaufort	Upper Broad Creek on Hilton Head Island

SCECAP 1999 -- Tidal Creeks
Integrated Assessment

Station	Water Quality							Sediment Quality			Biological Condition	Overall	County	Location
	Dissolved Oxygen	Fecal Coliform	pH	Bio. Oxy. Demand	Total Nitrogen	Total Phosphorus	Integrated Score	Toxicity	Contaminants	Integrated Score	Benthic IBI	Integrated Score		
RT99001							3.7			3	2.5	3.0	Charleston	Lower Five Fathom Creek near Bull Bay in Key Creek
RT99002							5.0			5	3.5	4.4	Georgetown	Old Man Creek in North Inlet
RT99003							4.7			4	3.5	4.0	Beaufort	Old House Creek behind Hunting Island
RT99004							4.0			5	4.5	4.5	Charleston	Chapin Creek in Kiawah River
RT99005							3.4			3	3.0	3.1	Beaufort	In Beaufort River near City of Beaufort
RT99006							4.0			5	2.5	3.7	Horry	Near Little River, behind Waites Island
RT99007							3.3			4	3.0	3.4	Charleston	Creek on James Island in Clark Sound
RT99008							4.6			4	4.0	4.1	Beaufort	Small creek on Hunting Island
RT99009							3.3			2	1.0	2.1	Charleston	Bailey Creek in South Edisto River
RT99010							4.0			5	4.0	4.3	Beaufort	Tributary of Broad Creek On Hilton Head Island
RT99012							3.7			4	2.0	3.2	Beaufort	Station Creek on Saint Phillips Island
RT99013							4.7			4	4.0	4.1	Beaufort	Club Bridge Creek in front of St. Helena Island
RT99017							3.7			5	2.5	3.6	Charleston	Hobcaw Creek in Wando River
RT99019							4.7			5	3.5	4.2	Charleston	Ocella Creek in North Edisto River
RT99021							4.7			3	4.0	3.8	Charleston	Sol Legare Creek in Folly River
RT99022							4.3			5	3.0	4.1	Beaufort	Tributary of Broad Creek On Hilton Head Island
RT99024							4.7			5	3.0	4.1	Beaufort	Cole Creek in Broad River
RT99026							3.7			4	4.0	3.9	Charleston	Dupre Creek near McClellanville
RT99027							4.2			5	3.0	4.0	Charleston	Nowell Creek in Wando River
RT99028							4.7			4	4.0	4.1	Beaufort	Front of St Helena Island in tributary of Harbor River
RT99029							4.2			5	3.0	3.9	Charleston	Small creek in lower North Edisto
RT99030							4.0			4	4.5	4.1	Beaufort	Cowen Creek in Beaufort River
RT99036							4.3			3	3.5	3.5	Charleston	Alligator Creek near Cape Romain Harbor
RT99037							3.0			5	2.5	3.5	Charleston	Guerin Creek in upper Wando River
RT99038							3.7			5	3.0	3.9	Beaufort	Behind Pritchards Island in tributary of Trenchards Inlet
RT99039							4.3			5	4.0	4.4	Charleston	Privateer Creek in lower North Edisto River
RT99040							3.7			4	2.5	3.4	Beaufort	Cowen Creek in Beaufort River

SCECAP 2000 -- Open Water
Integrated Assessment

Station	Water Quality							Sediment Quality			Biological Condition	Overall	County	Location
	Dissolved Oxygen	Fecal Coliform	pH	Bio. Oxy. Demand	Total Nitrogen	Total Phosphorus	Integrated Score	Toxicity	Contaminants	Integrated Score	Benthic IBI	Integrated Score		
RO00006							4.3			3	3.5	3.6	Georgetown	Winyah Bay near the mouth
RO00007							4.6			5	4.0	4.5	Berkeley	Cooper River above Bushy Park
RO00008							5.0			4	4.0	4.3	Beaufort	Morgan River north of St Helena Island
RO00009							5.0			4	4.5	4.5	Beaufort	Port Royal in Battery Creek
RO00010							5.0			5	4.5	4.8	Beaufort	St Helena Sound in mouth of Beaufort River
RO00015							4.2			3	2.5	3.2	Georgetown	Waccamaw River just above Hwy 17 Bridge
RO00016							5.0			5	3.5	4.5	Charleston	South of McClellanville at intersection of ICW and Matthews Creek
RO00017							4.7			5	5.0	4.9	Colleton	St Helena Sound in mouth of Rock Creek
RO00018							5.0			5	3.5	4.5	Beaufort	Coosaw River just north of Morgan Island
RO00019							5.0			3	3.0	3.7	Beaufort	May River just down river from Bluffton
RO00020							4.6			3	3.5	3.7	Georgetown	Winyah Bay just below Georgetown
RO00021							5.0			3	3.0	3.7	Georgetown	Intracoastal Waterway just north of the North Santee River
RO00022							5.0			4	3.0	4.0	Colleton	South Edisto River just east of Pine Island
RO00023							5.0			5	5.0	5.0	Beaufort	Coosaw River behind Lady's Island
RO00024							5.0			5	4.5	4.8	Beaufort	Colleton River near Victoria Bluff
RO00033							5.0			5	4.5	4.8	Charleston	Charleston Harbor behind Crab Bank
RO00034							3.8			2	2.5	2.8	Georgetown	Great Pee Dee River just above confluence with Black River
RO00035							5.0			5	3.5	4.5	Charleston	Wadmalaw River near Bears Bluff
RO00036							5.0			5	5.0	5.0	Beaufort	Whale Branch north of Cotton Island
RO00037							5.0			5	3.0	4.3	Beaufort	Chechesse River at south tip of Daws Island
RO00045							4.7			5	3.5	4.4	Charleston	Stono River west of Ross Marine
RO00046							4.3			5	2.5	3.9	Colleton	Ashepoo River above SR 26 bridge
RO00047							5.0			5	4.5	4.8	Beaufort	Broad river near SW end of Hwy 170 bridge
RO00048							5.0			4	4.5	4.5	Beaufort	Beaufort River in mouth of Cowen Creek
RO00049							5.0			5	3.0	4.3	Beaufort	Chechesee River east of Daws Island
RO00055							4.7			5	3.5	4.4	Georgetown	North Inlet near mouth of Old Man Creek
RO00056							4.7			1	2.0	2.6	Charleston	Cooper River in the turning basin of Shipyard Creek
RO00057							4.0			4	3.5	3.8	Charleston	Bohicket Creek near Camp Ho-Non-Wah
RO00058							4.7			5	4.5	4.7	Beaufort	Broad River just above Whale Branch
RO00059							5.0			3	5.0	4.3	Beaufort	Broad Creek in town of Hilton Head Island

SCECAP 2000 -- Tidal Creeks
Integrated Assessment

Station	Water Quality							Sediment Quality			Biological Condition	Overall	County	Location
	Dissolved Oxygen	Fecal Coliform	pH	Bio. Oxy. Demand	Total Nitrogen	Total Phosphorus	Integrated Score	Toxicity	Contaminants	Integrated Score	Benthic IBI	Integrated Score		
RT00501							4.7			4	3.5	4.1	Jasper	Wright River in creek at Walls Cut
RT00502							3.3			4	3.5	3.6	Colleton	Old Chehaw River below Social Hall Creek
RT00503							4.7			4	4.5	4.4	Charleston	North Edisto River in Adams Creek
RT00504							4.0			4	5.0	4.3	Beaufort	Warsaw Island in Jenkins Creek
RT00505							4.7			4	4.5	4.4	Charleston	Cape Romain in Devils Den Creek
RT00517							5.0			5	4.0	4.7	Beaufort	Trenchard's Inlet in creek behind St Phillips Island
RT00518							2.7			4	2.5	3.1	Charleston	North Edisto River in Westbank Creek
RT00519							4.3			4	3.0	3.8	Beaufort	Pocotaligo River in Haulover Creek
RT00520							5.0			4	4.5	4.5	Charleston	Goat Island, in creek forming east end of island
RT00521							5.0			3	4.5	4.2	Charleston	Bull Bay in Sett Creek
RT00523							3.7			5	3.0	3.9	Colleton	Edisto Island in creek behind island
RT00525							4.7			4	3.5	4.1	Charleston	Bull Island in Summerhouse Creek
RT00526							3.8			2	1.5	2.4	Charleston	Ashley River upriver of Magnolia Plantation
RT00528							3.0			5	3.5	3.8	Colleton	Ashepoo River in Mosquito Creek
RT00530							5.0			4	4.0	4.3	Charleston	Capers Island in creek off of Santee Pass
RT00531							4.7			5	3.0	4.2	Berkeley	Wando River in Nowell Creek
RT00541							5.0			5	4.0	4.7	Beaufort	Calibogue Sound in a creek off of Cooper River
RT00542							3.3			5	4.0	4.1	Charleston	Kiawah River in Chapin Creek
RT00543							4.5			4	3.5	4.0	Beaufort	MorganRiver in center of Morgan Island
RT00544							4.3			5	4.0	4.4	Charleston	Folly River in Cole Creek
RT00545							4.3			5	3.5	4.3	Horry	Town of Cherry Grove Beach near mouth of Hog Inlet
RT00546							4.0			5	4.5	4.5	Beaufort	Calibogue Sound in Bryan Creek
RT00547							4.7			5	4.5	4.7	Charleston	North Edisto River in Privateer Creek
RT00548							3.0			4	3.0	3.3	Beaufort	Morgan River in creek on Dataw Island
RT00549							3.8	1		2	3.0	2.9	Berkeley	Cooper River in Beresford Creek
RT00550							4.3	1		3	3.5	3.6	Georgetown	Murrell's Inlet in upper reach
RT00554							4.3			4	3.0	3.8	Jasper	New River behind Daufuskie Island in upper reach
RT00556							4.7			4	4.0	4.2	Beaufort	Okatie River in creek off upper part
RT00557							4.7			5	3.5	4.4	Beaufort	Whale Branch in Middle Creek
RT00558							4.0			3	4.5	3.8	Charleston	Bull Bay in Laurel Hill Plantation creek off Intracoastal Waterway