

Table 4. City of Hampton, Virginia Shoreline Attributes - Riparian Land Use - River System Summary

CITY OF HAMPTON RIVER SYSTEM	TOTAL MILES SURVEYED	RIPARIAN LAND USE (miles)																													
		AGRICULTURE				BARE				COMMERCIAL				FOREST			GRASS				INDUSTRIAL				MARSH ISLAND						
				fringe with					fringe with					fringe with					fringe with					fringe with					fringe with		
		no tree buffer	tree fringe only	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang	total	no canopy over- hang	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang	total	no tree buffer	tree fringe only	canopy over- hang
Back River	9.16	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.83	1.44	0.03	0.00	1.47	1.37	0.00	1.37	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.46			
Chesapeake Bay	9.51	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.83	0.14	0.00	0.00	0.14	0.00	0.00	0.00	0.60	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05			
Hampton River	21.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	0.23	0.05	3.04	0.83	0.35	1.18	0.89	0.53	0.30	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hampton Roads	12.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66	0.00	0.02	2.68	0.23	0.00	0.23	2.03	0.09	0.00	2.12	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.09			
Harris River	16.96	0.00	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.24	4.80	0.00	4.80	0.22	0.44	0.00	0.66	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.09			
Long Creek	14.67	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.17	0.00	0.00	0.00	0.00	3.48	0.03	3.51	0.30	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.38			
Mill Creek	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.34	0.12	0.00	0.12	2.05	0.03	0.00	2.08	0.00	0.00	0.00	0.00	3.24	0.00	0.00	3.24			
Northwest Branch																															
Back River	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	1.30	4.89	0.00	4.89	1.18	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Salt Ponds	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.09	0.00	0.09	0.06	0.00	0.00	0.06	0.00	0.00	0.00	0.00	3.40	0.00	0.00	3.40			
Southeast Branch																															
Back River	41.20	0.00	0.00	0.00	0.00	0.03	0.23	0.00	0.26	1.83	0.26	0.04	2.13	6.56	1.67	8.23	4.78	1.11	0.40	6.29	0.00	0.13	0.00	0.13	2.91	0.00	0.00	2.91			
Total	157.54	0.00	0.43	0.00	0.43	1.86	0.23	0.00	2.09	10.83	0.52	0.11	11.46	22.37	2.05	24.42	12.31	2.22	0.70	15.23	0.00	0.13	0.00	0.13	10.62	0.00	0.00	10.62			

Table 4. City of Hampton, Virginia Shoreline Attributes - Riparian Land Use - River System Summary (con't)

CITY OF HAMPTON RIVER SYSTEM	TOTAL MILES SURVEYED	RIPARIAN LAND USE (miles)											
		PAVED				RESIDENTIAL				SCRUB-SHRUB			
		no tree buffer	tree fringe only	canopy with over- hang	total	no tree buffer	tree fringe only	canopy with over- hang	total	no tree buffer	tree fringe only	canopy with over- hang	total
Back River	9.16	0.89	0.00	0.00	0.89	0.59	0.47	0.00	1.06	2.88	0.00	0.00	2.88
Chesapeake Bay	9.51	2.49	0.00	0.00	2.49	2.41	0.00	0.00	2.41	3.01	0.00	0.00	3.01
Hampton River	21.93	0.90	0.43	0.02	1.35	8.88	3.61	1.66	14.15	0.39	0.05	0.05	0.49
Hampton Roads	12.74	2.18	0.01	0.07	2.26	4.52	0.64	0.06	5.22	0.13	0.00	0.00	0.13
Harris River	16.96	0.60	0.03	0.00	0.63	4.99	2.56	0.00	7.55	2.49	0.07	0.00	2.56
Long Creek	14.67	0.13	0.00	0.00	0.13	2.03	0.80	0.01	2.84	7.14	0.00	0.18	7.32
Mill Creek	11.04	1.57	0.04	0.00	1.61	2.45	0.13	0.00	2.58	1.06	0.00	0.00	1.06
Northwest Branch													
Back River	10.31	0.36	0.00	0.00	0.36	0.52	0.00	0.00	0.52	2.06	0.00	0.00	2.06
Salt Ponds	10.02	0.24	0.00	0.00	0.24	3.65	0.45	0.00	4.10	2.01	0.00	0.00	2.01
Southeast Branch													
Back River	41.20	3.78	1.05	0.00	4.83	7.90	2.44	0.28	10.62	5.69	0.10	0.00	5.79
Total	157.54	13.14	1.56	0.09	14.79	37.94	11.10	2.01	51.05	26.86	0.22	0.23	27.31

Table 5. City of Hampton, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary

CITY OF HAMPTON RIVER SYSTEM	TOTAL MILES SURVEYED	BANK (bank height and erosion status - miles of shore)																							
		0-5 FEET						5-10 FEET						10-30 FEET						>30 FEET					
		erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut
Back River	9.16	0.00	0.00	8.17	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chesapeake Bay	9.51	2.82	0.00	1.64	0.00	5.02	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hampton River	21.93	0.00	0.04	21.22	0.00	0.24	0.19	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hampton Roads	12.74	0.08	0.01	11.03	0.00	0.11	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Harris River	16.96	0.09	0.02	16.75	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Long Creek	14.67	0.10	0.23	14.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mill Creek	11.04	0.00	0.01	10.27	0.00	0.26	0.03	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northwest Branch																									
Back River	10.31	0.00	0.00	9.71	0.00	0.08	0.02	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt Ponds	10.02	0.24	0.00	9.32	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southeast Branch																									
Back River	41.20	0.42	0.47	39.63	0.04	0.03	0.02	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	157.54	3.75	0.78	142.07	0.04	5.77	0.26	0.00	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 6. City of Hampton, Virginia Shoreline Attributes - Riparian Buffer Condition, *Phragmites australis* and Survey Dates - River System Summary

CITY OF HAMPTON RIVER SYSTEM	TOTAL MILES SURVEYED	BANK COVER			NATURAL BUFFER								PHRAGMITES (miles)	MILES REMOTEY SURVEYED	FIELD SURVEY DATES
		(miles)			BEACH	(miles)									
		bare	partial	full		MARSH									
						embayed	extensive	fringe <5	fringe 5-10	fringe 10-15	fringe >15	marsh island			
Back River	9.16	0.00	0.00	9.16	1.53	0.31	1.15	1.01	0.58	0.49	2.21	0.46	2.79	1.10	August 20, 25, & 31, 2010
Chesapeake Bay	9.51	0.03	1.28	8.20	8.57	0.00	1.95	0.73	0.00	0.00	0.67	0.05	1.67	5.02	August 31, 2010 and October 11, 2010
Hampton River	21.93	0.00	0.05	21.88	0.00	0.07	0.04	5.61	0.85	0.59	0.93	0.00	1.59	4.59	September 2 & 7, 2010
Hampton Roads	12.74	0.01	0.02	12.71	0.99	0.81	0.00	0.48	0.02	0.00	0.00	0.09	0.00	8.33	September 2 & 9, 2010
Harris River	16.96	0.08	0.00	16.88	0.00	0.70	2.32	3.71	1.75	1.44	4.68	0.09	5.44	3.14	August 25, 2010
Long Creek	14.67	0.00	0.29	14.38	0.17	0.00	7.02	1.07	0.31	0.50	3.39	0.38	1.76	2.55	August 31, 2010 and October 11, 2010
Mill Creek	11.04	0.00	0.29	10.75	0.11	0.20	0.23	3.60	0.43	0.11	0.50	3.24	1.23	0.39	September 9, 2010
Northwest Branch															
Back River	10.31	0.08	0.15	10.08	0.00	0.00	7.36	1.16	0.33	0.05	0.82	0.00	3.69	0.00	August 16, 2010
Salt Ponds	10.02	0.00	0.00	10.02	0.30	0.00	2.33	1.24	0.23	0.15	1.53	3.40	5.48	2.07	October 11, 2010
Southeast Branch															
Back River	41.20	0.02	0.21	40.97	0.15	0.48	4.84	9.57	2.24	0.83	11.81	2.91	7.59	20.69	August 16 & 20, 2010
Total	157.54	0.22	2.29	155.03	11.82	2.57	27.24	28.18	6.74	4.16	26.54	10.62	31.24	47.88	

Table 7. City of Hampton, Virginia Shoreline Attributes - Shoreline Features - River System Summary

CITY OF HAMPTON RIVER SYSTEM	TOTAL MILES SURVEYED	SHORELINE FEATURES																	
		No. docks	No. dilapidated docks	No. boathouses	No. ramps private	public	No. outfalls	No. groinfields	No. marinas <50 slips	>50 slips	No. jetties	No. breakwater	Miles of debris	Miles of unconventional	Miles of bulkhead	Miles of dilapidated bulkhead	Miles of marsh toe revetment	Miles of riprap	Miles of wharf
Back River	9.16	11	1	0	1	2	0	0	1	3	3	0	0.06	0.23	0.11	0.05	0.00	0.59	0.01
Chesapeake Bay	9.51	2	0	0	0	0	0	1	0	0	2	2	0.00	0.00	2.18	0.00	0.00	0.60	0.00
Hampton River	21.93	224	10	24	22	2	32	0	8	4	0	0	0.62	1.12	5.68	0.30	0.03	3.82	0.30
Hampton Roads	12.74	52	4	3	4	0	2	7	0	2	2	2	0.47	0.13	2.64	0.26	0.00	6.40	0.14
Harris River	16.96	86	6	11	11	0	1	0	0	1	0	0	0.00	0.67	1.05	0.00	0.00	0.86	0.00
Long Creek	14.67	72	3	0	1	0	2	0	0	0	0	0	0.00	0.07	0.98	0.02	0.00	0.27	0.00
Mill Creek	11.04	42	9	1	11	0	7	1	0	0	0	0	0.52	0.29	1.39	0.00	0.11	2.18	0.05
Northwest Branch																			
Back River	10.31	1	0	0	0	0	0	0	0	0	0	0	0.04	0.00	0.01	0.01	0.00	0.76	0.00
Salt Ponds	10.02	60	3	2	0	0	3	0	0	2	0	0	0.03	0.00	0.80	0.01	0.02	0.40	0.00
Southeast Branch																			
Back River	41.20	129	10	3	11	3	13	1	0	1	0	0	0.13	0.34	2.43	0.06	0.06	3.76	0.00
Total	157.54	679	46	44	61	7	60	10	9	13	7	4	1.86	2.85	17.27	1.17	0.23	19.66	0.5