

Reports

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Summary Tables: City of Chesapeake, Virginia Shoreline Inventory Report

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Table 4. City of Chesapeake, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2016

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST	GRASS			INDUSTRIAL			MILITARY			PAVED			RESIDENTIAL			SCRUB-SHRUB			TIMBERED			
		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	
Albemarle and Chesapeake Canal	24	0	<1	<1	0	0	0	3	<1	3	17	1	<1	1	0	0	0	0	0	0	1	1	1	<1	1	1	0	0	0	0	0	0	
Bailey Creek	9	<1	<1	<1	0	0	0	0	<1	<1	<1	<1	1	1	0	0	0	0	0	0	<1	<1	1	4	2	6	0	0	0	0	0	0	
Deep Creek	24	0	1	1	0	0	0	1	<1	1	5	2	<1	2	1	<1	1	0	0	0	1	2	3	7	3	10	<1	0	<1	0	0	0	
Dismal Swamp Canal	28	6	1	7	0	0	0	<1	<1	1	15	1	<1	1	0	0	0	0	0	0	<1	0	<1	3	1	4	0	0	0	0	0	0	
Drum Point Creek	13	<1	<1	1	0	0	0	<1	<1	<1	0	0	<1	<1	0	0	0	0	0	0	<1	0	<1	10	2	11	0	0	0	0	0	0	
Eastern Branch Elizabeth River	3	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	<1	<1	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	
Indian River	14	0	0	0	0	0	0	<1	0	<1	0	<1	0	<1	<1	<1	0	0	0	<1	0	<1	12	1	14	0	0	0	0	0	0	0	
New Mill Creek	16	<1	<1	<1	0	0	0	<1	1	1	1	1	1	2	0	0	0	0	0	0	<1	<1	<1	7	5	12	0	0	0	0	0	0	
North Landing River	11	0	<1	<1	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	<1	0	<1	0	0	0	0	0	0	0	0	0	0
Pocaty River	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Branch Elizabeth River	101	1	1	2	1	<1	1	9	4	12	14	8	2	10	14	3	17	2	0	2	10	4	14	18	9	27	1	<1	1	0	0	0	
St. Julian Creek	10	0	0	0	0	0	0	1	<1	1	1	<1	<1	<1	<1	0	<1	1	<1	0	<1	6	<1	6	<1	0	<1	0	0	0	0	0	
Sterns Creek	7	0	<1	<1	0	0	0	<1	<1	<1	0	1	<1	1	0	0	0	0	0	0	<1	<1	<1	4	1	5	0	0	0	0	0	0	
Western Branch Elizabeth River	21	0	<1	<1	0	0	0	<1	<1	1	1	1	1	2	0	0	0	0	0	0	1	1	2	11	5	15	0	0	0	0	0	0	
Total	286	8	4	13	1	0.10	1	16	6	22	69	14	6	20	15	3	18	2	<1	2	14	8	22	85	32	117	2	<1	2	0	0	0	

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

**tree fringe: When the dominant riparian land use is not forested but a line of trees is maintained along the bank edge, the land use is noted to

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 5. City of Chesapeake, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2016

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet
Albemarle and Chesapeake Canal	24	0	0	24	24	0	0
Bailey Creek	9	0	<1	9	9	<1	0
Deep Creek	24	0	<1	24	24	0	0
Dismal Swamp Canal	28	0	0	28	28	0	0
Drum Point Creek	13	0	0	13	13	0	0
Eastern Branch Elizabeth River	3	0	0	3	3	0	0
Indian River	14	0	<1	14	14	<1	0
New Mill Creek	16	0	0	16	16	0	0
North Landing River	11	0	0	11	11	0	0
Pocaty River	5	0	0	5	5	0	0
Southern Branch Elizabeth River	101	<1	1	100	101	1	0
St. Julian Creek	10	0	1	10	10	<1	0
Sterns Creek	7	0	0	7	7	0	0
Western Branch Elizabeth River	21	0	0	21	21	<1	0
Total	286	<1	2	284	285	1	0

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 6. City of Chesapeake, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2016

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)						MARSH Community Type ¹ (acres)												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES		
		total	field checked	marsh	marsh island	no marsh forested	no marsh sand	no marsh scrub-shrub	total marsh	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII			DNS**	
Albemarle and Chesapeake Canal	0	2	0	34	0	9	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34	DNS	DNS
Bailey Creek	0	46	13	90	0	0	0	0	90	6	0	0	12	<1	0	0	1	0	0	0	6	65	54	June 7, 2016	
Deep Creek	<1	87	58	170	0	3	0	0	170	12	0	20	<1	6	0	0	19	0	0	0	39	74	53	June 8, 2016	
Dismal Swamp Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DNS	DNS
Drum Point Creek	0	54	22	87	0	<1	0	0	87	32	0	0	<1	<1	0	0	<1	0	0	0	1	53	59	June 7, 2016	
Eastern Branch Elizabeth River	0	17	17	4	0	0	0	0	4	1	0	0	0	0	0	0	2	0	0	0	1	0	18	18	June 7, 2016
Indian River	<1	81	61	78	0	0	0	0	78	16	0	0	7	<1	0	0	2	0	0	0	12	41	52	June 7, 2016	
New Mill Creek	0	46	33	120	0	2	0	0	120	44	0	16	5	5	0	0	1	0	0	0	20	30	82	82	June 8, 2016
North Landing River	0	7	0	75	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	75	DNS	DNS	
Pocaty River	0	1	0	8	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	DNS	DNS	
Southern Branch Elizabeth River	<1	284	146	929	0	41	0	0	929	103	0	4	1	0	0	0	46	0	0	0	176	599	84	84	June 7-8, 2016
St. Julian Creek	0	50	17	38	0	<1	0	0	38	2	0	0	<1	0	0	0	4	0	0	0	<1	32	59	59	June 8, 2016
Sterns Creek	0	24	20	42	0	0	0	0	42	27	0	0	<1	0	0	0	1	0	0	0	1	13	60	60	June 7, 2016
Western Branch Elizabeth River	0	106	42	155	0	1	0	0	155	31	0	1	<1	<1	0	0	3	0	0	0	4	116	48	48	June 7, 2016
Total	1	805	429	1832	0	57	0	0	1832	273	0	41	26	12	0	0	78	0	0	0	261	1141			

**DNS = Did Not Survey

¹Community Type:

I = Saltmarsh Cordgrass / low marsh	VII = Arrow Arum – Pickerel Weed
II = Saltmeadow / high marsh	VIII = Reed Grass (<i>Phragmites australis</i>)
III = Black Needlerush	IX = Yellow Pond Lily
IV = Saltbush	X = Saltwort
V = Big Cordgrass	XI = Freshwater mix
VI = Cattail	XII = Brackish mix

²Type VIII - Field checked marshes where *Phragmites australis* was estimated to cover >50% marsh area.

³Phragmites - percent of field checked marshes where *Phragmites australis* is present in any amount.

Table 7. City of Chesapeake, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2016

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles								
		dilapidated		boathouses	ramps		marinas		wharfs	jetties	bulkhead	dilapidated		debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields
		docks	docks		private	public	<50 slips	>50 slips				bulkhead	bulkhead						
Albemarle and Chesapeake Canal	24	2	0	0	3	0	2	6	0	0	2	0	0	0	1	0	0	0	
Bailey Creek	9	39	1	2	5	0	0	0	0	0	<1	0	0	<1	<1	0	0	0	
Deep Creek	24	76	1	23	9	1	0	0	0	0	1	<1	0	0	1	<1	0	0	
Dismal Swamp Canal	28	11	0	1	1	1	0	0	0	0	<1	<1	0	0	<1	0	0	0	
Drum Point Creek	13	94	4	10	9	0	0	0	0	0	1	<1	0	<1	1	<1	0	0	
Eastern Branch Elizabeth River	3	37	2	11	15	0	0	0	0	0	1	<1	0	<1	1	<1	0	0	
Indian River	14	120	3	10	33	0	0	0	0	1	2	<1	<1	<1	1	<1	0	0	
New Mill Creek	16	48	1	1	7	0	0	0	0	0	<1	0	0	<1	<1	0	0	0	
North Landing River	11	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	0	0	0	
Pocaty River	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Branch Elizabeth River	101	199	7	1	11	3	9	0	2	4	5	<1	2	<1	5	2	0	<1	
St. Julian Creek	10	53	2	2	9	0	0	0	0	0	<1	<1	<1	0	2	<1	0	0	
Sterns Creek	7	51	0	1	1	0	0	0	0	0	<1	0	0	0	<1	0	0	0	
Western Branch Elizabeth River	21	113	3	7	11	0	1	0	0	2	1	<1	0	<1	1	<1	0	0	
Total	286	843	24	69	114	5	12	6	2	8	13	1	2	1	15	2	0	<1	

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

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