

Table 4. Essex County, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2018

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST total	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		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
Hoskins Creek	17	0	1	1	0	0	0	<1	2	2	6	<1	1	2	<1	<1	1	0	0	0	<1	1	1	1	2	3	<1	1	1	0	0	0
Mount Landing Creek	16	<1	1	1	0	0	0	0	0	0	10	<1	<1	<1	0	0	0	0	0	0	1	1	2	1	<1	1	<1	<1	<1	<1	<1	1
Occupacia Creek	19	6	6	12	0	0	0	0	0	0	5	<1	0	<1	0	0	0	0	0	0	0	0	0	<1	<1	1	1	<1	1	0	0	0
Piscataway Creek	37	2	8	9	0	0	0	<1	0	<1	11	1	1	2	0	0	0	0	0	0	<1	<1	1	5	6	11	<1	1	1	1	<1	1
Portobago Creek	2	0	1	1	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	0	<1	0	0	0
Rappahannock River	126	17	38	55	<1	0	<1	1	<1	2	26	1	3	4	<1	0	<1	0	0	0	3	1	4	25	6	31	3	1	3	<1	<1	<1
Total	216	26	55	81	<1	0	<1	2	2	4	59	3	5	8	<1	<1	1	0	0	0	5	3	7	32	15	46	4	3	7	1	1	2

\*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 include a tree fringe. This tree fringe value includes tree fringe and tree fringe > 100 feet wide.

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

Table 5. Essex County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2018

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet
Hoskins Creek	17	0	0	17	5	11	0
Mount Landing Creek	16	0	<1	16	8	7	0
Occupacia Creek	19	0	0	19	14	5	0
Piscataway Creek	37	0	<1	36	18	18	0
Portobago Creek	2	0	0	2	1	1	0
Rappahannock River	126	2	7	117	82	43	1
Total	216	2	7	207	129	86	1

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

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Table 6. Essex County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2018

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)						MARSH Community Type <sup>1</sup> (acres)												PHRAGMITES <sup>3</sup> (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 <sup>2</sup>	IX <sup>4</sup>	X	XI	XII			DNS <sup>**</sup>
Hoskins Creek	0	52	31	436	0	1	0	0	436	<1	0	0	0	85	0	9	113	0	0	51	<1	178	71	July 16, 2018 & Aug 16, 2018
Mount Landing Creek	0	27	24	597	0	3	0	0	597	0	0	0	0	329	0	105	0	0	0	78	2	83	17	July 16, 2018
Occupacia Creek	0	60	35	377	0	5	0	0	377	0	0	0	0	9	0	<1	0	3	0	252	0	113	6	July 17, 2018
Piscataway Creek	<1	104	68	1050	0	14	0	0	1050	<1	0	0	0	321	<1	2	9	<1	0	286	0	431	37	July 16, 2018 & Aug 16, 2018
Portobago Creek	0	9	0	25	0	<1	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25	DNS	DNS
Rappahannock River	9	367	205	2667	0	79	0	0	2667	<1	0	0	<1	848	4	2	141	63	0	456	42	1111	32	July 16-18, 2018 & Aug 16, 2018
<b>Total</b>	<b>9</b>	<b>619</b>	<b>363</b>	<b>5152</b>	<b>0</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>5152</b>	<b>&lt;1</b>	<b>0</b>	<b>0</b>	<b>&lt;1</b>	<b>1592</b>	<b>4</b>	<b>118</b>	<b>263</b>	<b>66</b>	<b>0</b>	<b>1124</b>	<b>44</b>	<b>1941</b>		

\*\*DNS = Did Not Survey

<sup>1</sup>Community Type: I = Saltmarsh Cordgrass / low marsh VII = Arrow Arum – Pickerel Weed  
 II = Saltmeadow / high marsh VIII = Reed Grass (*Phragmites australis*)  
 III = Black Needlerush IX = Yellow Pond Lily  
 IV = Saltbush X = Saltwort  
 V = Big Cordgrass XI = Freshwater mix  
 VI = Cattail XII = Brackish mix

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

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

Table 7. Essex County, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2018

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number										Miles							
		dilapidated docks		boathouses	ramps		marinas		wharfs	jetties	dilapidated bulkhead		debris	marsh toe revetment	riprap	unconventional breakwater	groinfields		
Hoskins Creek	17	27	0	6	1	1	0	0	0	2	<1	0	0	0	<1	0	0	0	
Mount Landing Creek	16	16	0	0	1	0	0	0	0	0	<1	0	0	0	<1	0	0	<1	
Occupacia Creek	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Piscataway Creek	37	60	0	11	7	0	0	0	0	4	<1	0	0	<1	<1	0	0	<1	
Portobago Creek	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rappahannock River	126	346	20	116	67	3	3	0	0	24	8	0	<1	<1	6	<1	0	9	
<b>Total</b>	<b>216</b>	<b>449</b>	<b>20</b>	<b>133</b>	<b>76</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>9</b>	<b>0</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>6</b>	<b>&lt;1</b>	<b>0</b>	<b>9</b>	

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