

Table 4. City of Williamsburg, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST total	GRASS			INDUSTRIAL			PAVED			RESIDENTIAL			SCRUB-SHRUB		
		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
College Creek	4	0	0	0	0	0	0	0	0	0	2	<1	0	<1	0	0	0	<1	0	<1	0	2	2	0	0	0
Queen Creek	1	0	0	0	0	0	0	0	0	0	1	<1	0	<1	0	0	0	<1	0	<1	0	<1	<1	0	0	0
Total	5	0	0	0	0	0	0	0	0	0	3	<1	0	<1	0	0	0	<1	0	<1	0	2	2	0	0	0

*Total = does not include detached marsh shoreline
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 Williamsburg, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)			BANK STABILITY (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet	stable	unstable	unknown
College Creek	4	0	0	4	3	1	0	4	0	<1
Queen Creek	1	0	0	1	1	<1	0	1	0	0
Total	5	0	0	5	4	1	0	5	0	<1

*Total = does not include detached marsh 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 Williamsburg, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2014

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons field checked		MARSH																		PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES
				Marsh Type (acres)					Community Type ¹ (acres)														
				embayed	extensive	fringe	marsh island	total	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII	DNS ^{**}		
College Creek	0	44	29	43	0	0	0	43	0	0	0	0	0	0	8	0	0	0	12	0	24	0 DNS	7/11/2014 DNS
Queen Creek	0	3	0	26	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	26		
Total	0	47	29	69	0	0	0	69	0	0	0	0	0	0	8	0	0	0	12	0	50		

**DNS = Did Not Survey

- ¹Community Type:

I = Saltmarsh Cordgrass / low marsh

II = Saltmeadow / high marsh

III = Black Needlerush

IV = Saltbush

V = Big Cordgrass

VI = Cattail

VII = Arrow Arum – Pickerel Weed

VIII = Reed Grass (*Phragmites australis*)

IX = Yellow Pond Lily

X = Saltwort

XI = Freshwater mix

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 Williamsburg, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles							
		docks	dilapidated docks	boathouses	private	ramps public	marinas <50 slips	>50 slips	wharfs	jetties	bulkhead	dilapidated bulkhead	debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields
College Creek	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Queen Creek	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Total = does not include detached marsh shoreline
Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.