

2016

# Summary Tables: Prince George County and the City of Hopewell, Virginia Shoreline Inventory Report

Marcia Berman

*Virginia Institute of Marine Science*

Karina Nunez

*Virginia Institute of Marine Science*

Sharon Killeen

*Virginia Institute of Marine Science*

Tamia Rudnicky


*Virginia Institute of Marine Science*

Julie Bradshaw

*Virginia Institute of Marine Science*

*See next page for additional authors*

Follow this and additional works at: <https://scholarworks.wm.edu/reports>

 Part of the [Environmental Indicators and Impact Assessment Commons](#), [Natural Resources Management and Policy Commons](#), and the [Water Resource Management Commons](#)

---

## Recommended Citation

Berman, M.R., Nunez, K., Killeen, S., Rudnicky, T., Bradshaw, J., Stanhope, D., Duhring, K., Hendricks, J., Weiss, D. and Hershner, C.H. 2016. Prince George County, Virginia - Shoreline Inventory Report: Methods and Guidelines, SRAMSOE no.449, Comprehensive Coastal Inventory Program, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, Virginia, 23062.

This Report is brought to you for free and open access by W&M ScholarWorks. It has been accepted for inclusion in Reports by an authorized administrator of W&M ScholarWorks. For more information, please contact [scholarworks@wm.edu](mailto:scholarworks@wm.edu).

---

**Authors**

Marcia Berman, Karinna Nunez, Sharon Killeen, Tamia Rudnicki, Julie Bradshaw, David Stanhope, Karen Duhring, Jessica Hendricks, David Weiss, and Carl Hershner

Table 4. Prince George County and the City of Hopewell, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2016

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			
<b>City of Hopewell:</b>																																
Appomattox River	6	0	0	3	0	0	0	1	<1	1	0	0	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	0	0	0		
James River	11	0	0	1	0	0	0	0	<1	<1	2	<1	1	1	2	4	6	0	0	0	<1	<1	<1	1	<1	1	0	0	0	0	0	0
City of Hopewell Total	18	0	0	4	0	0	0	1	<1	1	2	<1	1	1	2	4	6	0	0	0	<1	<1	<1	2	4	6	0	0	0	0	0	0
<b>Prince George:</b>																																
Appomattox River	7	<1	1	1	0	0	0	<1	<1	1	1	0	<1	<1	<1	3	3	0	0	0	<1	0	<1	<1	1	2	<1	0	<1	0	0	0
James River	88	4	9	13	0	0	0	1	<1	1	61	1	2	4	0	0	0	0	0	0	<1	0	<1	4	4	8	1	1	2	0	0	0
Upper Chippokes Creek	15	0	2	2	0	0	0	0	0	0	9	2	1	3	0	0	0	0	0	0	0	0	0	<1	0	<1	0	0	0	0	0	0
Prince George Total	111	4	12	16	0	0	0	1	1	1	71	3	4	7	<1	3	3	0	0	0	<1	0	<1	5	5	10	1	1	2	0	0	0
Total	128	4	12	19	0	0	0	2	1	3	73	3	5	8	2	7	9	0	0	0	<1	<1	1	8	9	17	1	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 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. Prince George County and the City of Hopewell, 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
<b>City of Hopewell:</b>							
Appomattox River	6	<1	<1	6	5	1	0
James River	11	<1	1	11	11	<1	0
City of Hopewell Total	18	1	1	16	17	1	0
<b>Prince George:</b>							
Appomattox River	7	<1	<1	7	7	0	0
James River	88	0	0	88	88	<1	0
Upper Chippokes Creek	15	0	0	15	15	0	0
Prince George Total	111	<1	<1	110	111	<1	0
Total	128	1	1	126	127	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. Prince George County and the City of Hopewell, 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												PHRAGMITES <sup>3</sup> (percent of field checked marshes)	MARSH SURVEY DATES	
				marsh	marsh island	no marsh forested	no marsh scrub-shrub	total marsh	Community Type <sup>1</sup> (acres)														
		total	field checked						I	II	III	IV	V	VI	VII	VIII <sup>2</sup>	IX	X	XI	XII	DNS <sup>**</sup>		
<b>City of Hopewell:</b>																							
Appomattox River	1	16	15	18	0	1	0	18	0	0	0	0	0	0	8	0	0	0	3	0	7	0	July 2, 2016
James River	<1	40	8	37	0	1	0	37	0	0	0	0	0	0	3	0	0	0	1	0	34	0	July 2, 2016
City of Hopewell Total	1	56	23	56	0	2	0	56	0	0	0	0	0	0	11	0	0	0	4	0	40		
<b>Prince George:</b>																							
Appomattox River	0	16	16	14	0	<1	0	14	0	0	0	0	0	0	13	0	0	0	1	0	0	0	July 2, 2016
James River	11	288	110	868	24	71	0	892	0	0	0	0	398	0	121	<1	0	0	166	0	207	1	July 1-2, 2016
Upper Chippokes Creek	0	64	27	237	16	15	0	253	0	0	0	0	0	0	119	0	0	0	40	0	94	7	July 1, 2016
Prince George Total	11	368	153	1120	40	86	0	1159	0	0	0	0	398	0	253	<1	0	0	207	0	301		
Total	12	424	176	1175	40	88	0	1215	0	0	0	0	398	0	264	<1	0	0	211	0	341		

\*\*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 ( <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

<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.

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

Table 7. Prince George County and the City of Hopewell, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2016

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles							
		docks	dilapidated docks	boathouses	ramps		marinas		wharfs	jetties	bulkhead	dilapidated bulkhead	debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields
<b>City of Hopewell:</b>																		
Appomattox River	6	13	0	0	1	1	0	2	0	0	<1	0	0	0	<1	0	0	0
James River	11	3	1	0	0	0	0	0	0	0	<1	<1	0	0	1	<1	0	0.00
City of Hopewell Total	18	16	1	0	1	1	0	2	0	0	1	<1	0	0	1	<1	0	0
<b>Prince George:</b>																		
Appomattox River	7	17	0	0	6	0	1	0	2	0	<1	0	0	0	<1	0	0	0
James River	88	37	4	17	8	0	0	1	0	0	1	0	0	0	<1	<1	<1	<1
Upper Chippokes Creek	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prince George Total	111	57	4	17	14	0	1	1	2	0	2	0	0	0	<1	<1	<1	<1
<b>Total</b>	<b>128</b>	<b>73</b>	<b>5</b>	<b>17</b>	<b>15</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>&lt;1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>

\*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.