
Reports

2015

Summary Tables: City of Portsmouth, 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., Angstadt, K., Duhring, K., Weiss, D. and Hershner, C.H. 2015. City of Portsmouth, Virginia - Shoreline Inventory Report: Methods and Guidelines, SRAMSOE no.446, 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.

Authors

Marcia Berman, Karinna Nunez, Sharon Killeen, Tamia Rudnicki, Julie Bradshaw, Kory Angstadt, Karen Duhring, David Weiss, and Carl Hershner

Table 4. City of Portsmouth, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2015

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST total	GRASS			INDUSTRIAL			MILITARY			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	no tree buffer	tree fringe	total
Baines Creek	6	0	0	0	0	0	0	1	<1	1	0	<1	0	<1	0	0	0	0	0	0	<1	0	<1	5	<1	5	0	0	0
Elizabeth River	17	0	0	0	<1	<1	<1	5	2	7	2	<1	1	2	2	0	2	2	<1	3	1	<1	1	1	<1	1	0	0	0
Hampton Roads	8	0	0	0	<1	0	<1	0	0	0	<1	0	0	0	6	0	6	1	0	1	0	0	0	1	0	1	0	0	0
Hoffler Creek	7	0	0	0	<1	0	<1	0	0	0	1	0	0	0	0	0	0	0	0	0	<1	<1	<1	2	4	6	<1	0	<1
Lilly Creek	7	0	0	0	0	0	0	0	0	0	0	0	<1	<1	0	0	0	0	0	0	<1	<1	<1	7	<1	7	0	0	0
Paradise Creek	7	0	0	0	0	0	0	1	0	1	0	1	<1	2	1	0	1	<1	0	<1	<1	0	<1	3	0	3	<1	0	<1
Scott Creek	7	0	0	0	0	0	0	2	0	2	<1	<1	1	1	0	0	0	0	0	0	<1	<1	1	3	<1	3	0	0	0
Southern Branch	6	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0
Sterns Creek	4	0	0	0	0	0	0	<1	0	<1	0	0	0	0	0	0	0	0	0	0	<1	0	<1	2	1	4	0	0	0
Western Branch	26	0	0	0	0	0	0	2	<1	2	<1	2	<1	2	<1	0	<1	0	0	0	1	<1	1	19	2	21	0	0	0
Total	97	0	0	0	<1	<1	<1	12	2	14	4	4	2	7	9	0	9	8	<1	8	3	1	3	43	8	51	1	0	1

*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. City of Portsmouth, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2015

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet
Baines Creek	6	0	0	6	6	<1	0
Elizabeth River	17	0	<1	17	16	1	0
Hampton Roads	8	1	1	6	8	0	0
Hoffler Creek	7	0	<1	7	7	<1	0
Lilly Creek	7	0	0	7	7	0	0
Paradise Creek	7	0	0	7	7	1	0
Scott Creek	7	0	0	7	7	0	0
Southern Branch	6	0	0	6	6	<1	0
Sterns Creek	4	0	0	4	4	0	0
Western Branch	26	<1	1	25	25	1	0
Total	97	1	2	94	94	3	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 Portsmouth, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2015

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES	
		total	field checked	marsh	marsh island	no marsh forested	no marsh scrub-shrub	total marsh	Community Type ¹ (acres)														
									I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII	DNS ^{**}		
Baines Creek	0	36	10	54	0	0	0	54	2	0	0	0	0	0	0	2	0	0	0	1	50	28	June 23, 2015
Elizabeth River	<1	43	36	119	0	<1	0	119	51	0	0	1	0	0	0	1	0	0	0	7	60	84	June 23-25, 2015
Hampton Roads	2	14	13	6	0	0	0	6	<1	0	0	<1	0	0	0	2	0	0	0	3	<1	93	June 25 & August 14, 2015
Hoffler Creek	<1	93	93	58	0	0	0	58	51	0	<1	0	0	0	0	2	0	0	0	4	0	100	August 14, 2015
Lilly Creek	0	48	42	23	0	<1	0	23	13	0	0	<1	0	0	0	1	0	0	0	2	6	88	June 24, 2015
Paradise Creek	0	24	5	74	0	<1	0	74	10	0	0	0	0	0	0	6	0	0	0	0	58	21	June 23, 2015
Scott Creek	0	57	43	12	0	0	0	12	5	0	0	<1	0	0	0	1	0	0	0	3	3	75	June 23, 2015
Southern Branch	<1	4	3	5	0	0	0	5	<1	0	0	0	0	0	0	0	0	0	0	0	5	75	June 23, 2015
Sterns Creek	0	13	4	23	0	0	0	23	1	0	0	0	0	0	0	0	0	0	0	1	21	31	June 24, 2015
Western Branch	1	182	141	91	0	0	0	91	30	0	2	<1	<1	0	0	4	0	0	0	22	32	77	June 23-24, 2015
Total	3	514	390	464	0	1	0	465	163	0	2	2	<1	0	0	20	0	0	0	43	235		

**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.

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

Table 7. City of Portsmouth, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2015

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles							
		docks	dilapidated docks	boathouses	private ramps	public ramps	<50 slips marinas	>50 slips marinas	wharfs	jetties	bulkhead	dilapidated bulkhead	debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields
Baines Creek	6	28	9	1	1	0	0	0	0	0	<1	0	0	0	<1	<1	0	0
Elizabeth River	17	15	0	0	2	0	1	1	5	0	1	0	<1	<1	3	1	0	0
Hampton Roads	8	7	1	0	4	0	0	0	0	1	<1	0	<1	<1	2	3	3	<1
Hoffler Creek	7	14	2	1	0	0	0	0	0	0	0	0	0	0	0	<1	0	0
Lilly Creek	7	113	3	17	4	0	0	0	0	0	2	<1	0	<1	1	<1	0	0
Paradise Creek	7	3	2	0	1	0	0	0	0	0	0	0	<1	<1	<1	<1	<1	0
Scott Creek	7	55	4	3	5	0	1	1	0	0	<1	<1	<1	<1	1	<1	0	0
Southern Branch	6	18	0	0	2	0	1	1	2	0	1	0	0	<1	<1	<1	0	0
Sterns Creek	4	33	0	1	2	0	0	0	0	0	<1	0	0	0	<1	<1	0	0
Western Branch	26	296	27	22	37	3	4	1	2	0	4	<1	<1	<1	4	2	0	<1
Total	97	582	48	45	58	3	7	4	9	1	10	<1	1	1	11	7	3	<1

*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.