

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

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
Chesapeake Bay	8	0	0	0	0	0	0	1	0	1	0	<1	0	<1	0	0	0	0	0	0	<1	0	<1	6	0	6	0	0	0
Eastern Branch Elizabeth River	41	0	0	0	0	0	0	6	2	7	0	1	1	2	5	<1	5	0	0	0	3	1	4	19	3	22	0	0	0
Elizabeth River	11	0	0	0	0	0	0	3	0	3	0	2	0	2	4	0	4	0	0	0	<1	0	<1	2	0	2	0	0	0
Hampton Roads	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	4	0	4	0	0	0	0	0	0	0	0	0
Lafayette River	61	0	0	0	0	0	0	3	1	4	1	2	<1	2	1	0	1	0	0	0	2	0	2	44	7	51	0	0	0
Little Creek	21	0	0	0	0	0	0	2	0	2	0	1	1	1	0	0	0	0	0	0	<1	0	<1	16	2	18	<1	0	<1
Southern Branch Elizabeth River	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	<1	0	<1	0	0	0	0	0	0
Willoughby Bay	10	0	0	0	0	0	0	1	0	1	<1	<1	0	<1	0	0	0	5	0	5	1	<1	1	2	0	2	0	0	0
Total	161	0	0	0	0	0	0	15	3	17	1	6	1	8	15	<1	15	10	0	10	7	1	8	90	12	102	<1	0	<1

*Total = does not include detached marsh or marsh island 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 Norfolk, 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
Chesapeake Bay	8	0	8	0	6	2	0	5	3	0
Eastern Branch Elizabeth River	41	0	0	41	36	5	0	39	0	2
Elizabeth River	11	0	0	11	10	1	0	10	<1	<1
Hampton Roads	6	0	0	6	6	0	0	6	0	0
Lafayette River	61	0	0	61	58	3	0	58	<1	3
Little Creek	21	0	<1	21	19	3	0	21	<1	<1
Southern Branch Elizabeth River	3	0	0	3	3	0	0	3	0	0
Willoughby Bay	10	0	1	9	9	1	0	10	0	<1
Total	161	0	9	151	146	14	0	152	3	6

*Total = does not include detached marsh or marsh island shoreline

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Table 6. City of Norfolk, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2014

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES		
				total	field checked	embayed	extensive	fringe	marsh island	total	Community Type ¹ (acres)													
									I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII	DNS**			
Chesapeake Bay	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	June 30, 2014
Eastern Branch Elizabeth River	0	201	156	32	0	135	5	172	55	0	<1	2	<1	0	0	2	0	0	0	8	105	27	July 2, 2014	
Elizabeth River	0	12	11	1	0	1	<1	3	1	0	0	<1	0	0	0	1	0	0	0	0	1	27	July 1, 2014	
Hampton Roads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	June 30, 2014	
Lafayette River	1	385	303	133	29	102	24	288	118	<1	<1	7	0	0	0	5	0	0	0	12	145	32	June 30 & July 1, 2014	
Little Creek	<1	133	117	23	44	28	12	107	71	0	<1	3	0	0	0	1	0	0	0	14	18	28	June 30, 2014	
Southern Branch Elizabeth River	0	8	3	0	0	3	0	3	0	0	0	1	0	0	0	<1	0	0	0	0	2	67	July 3, 2014	
Willoughby Bay	3	38	36	1	0	14	0	15	2	1	0	0	0	0	0	<1	0	0	0	3	9	14	June 30, 2014	
Total	11	777	626	191	73	283	42	589	247	1	<1	12	<1	0	0	9	0	0	0	38	281			

**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.

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Table 7. City of Norfolk, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	No. docks	No.		No. ramps		No. marinas		No. wharfs	No. jetties	Miles of bulkhead	Miles of		Miles of		Miles of riprap	Miles of unconventional	Miles of breakwater	Miles of groinfields
			dilapidated docks	boathouses	private	public	<50 slips	>50 slips				dilapidated bulkhead	Miles of debris	marsh toe revetment					
Chesapeake Bay	8	1	0	0	0	0	0	0	0	1	<1	0	0	0	<1	0	3	2	
Eastern Branch Elizabeth River	41	235	19	15	42	1	0	0	6	0	4	1	2	<1	7	3	0	0	
Elizabeth River	11	25	3	0	2	0	5	0	7	0	4	<1	<1	<1	2	1	0	<1	
Hampton Roads	6	31	0	0	2	0	0	0	2	1	4	<1	0	0	<1	0	<1	0	
Lafayette River	61	680	49	28	42	2	6	1	0	5	14	1	<1	1	10	1	0	<1	
Little Creek	21	191	4	14	27	0	8	5	0	1	3	<1	0	<1	2	<1	0	0	
Southern Branch Elizabeth River	3	12	1	0	0	0	0	0	1	0	1	<1	<1	<1	<1	0	0	0	
Willoughby Bay	10	57	7	3	10	2	3	2	0	4	3	0	<1	<1	4	<1	<1	<1	
Total	161	1232	83	60	125	5	22	8	16	12	33	2	2	1	25	5	3	3	

*Total = does not include detached marsh or marsh island shoreline

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