

Table 4. James City County, 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
Chickahominy River	190	<1	1	2	<1	0	<1	<1	<1	<1	165	3	5	8	0	0	0	<1	1	2	7	6	13	<1	0	<1
College Creek	42	0	0	0	0	0	0	<1	0	<1	26	2	<1	2	0	0	0	<1	<1	<1	4	9	13	0	0	0
James River	33	<1	0	<1	0	0	0	<1	<1	<1	19	5	1	6	<1	<1	<1	1	<1	1	4	1	5	<1	<1	<1
Mill Creek	15	<1	<1	<1	0	0	0	0	0	0	11	<1	<1	<1	0	0	0	<1	<1	<1	<1	2	2	0	0	0
Powhatan Creek	18	0	0	0	0	0	0	<1	<1	<1	8	<1	<1	<1	0	0	0	<1	<1	<1	2	5	7	<1	0	<1
Shellbank Creek	4	0	0	0	0	0	0	0	0	0	2	0	<1	<1	0	0	0	0	0	0	0	1	1	0	0	0
Skiffes Creek	22	0	0	0	0	0	0	0	0	0	21	<1	0	<1	0	0	0	0	<1	<1	0	0	0	0	0	0
Skimino Creek	8	0	0	0	0	0	0	0	0	0	8	<1	0	<1	0	0	0	0	0	0	0	0	0	0	0	0
Taskinas Creek	6	0	0	0	0	0	0	<1	0	<1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
The Thorofare	29	0	0	0	0	0	0	0	0	0	27	1	0	1	0	0	0	<1	0	<1	0	0	0	0	0	0
Ware Creek	11	0	0	0	0	0	0	0	0	0	11	0	<1	0	0	0	0	0	<1	0	0	0	0	0	0	0
York River	9	0	0	0	0	0	0	<1	<1	<1	7	<1	0	<1	0	0	0	<1	<1	<1	<1	<1	1	0	0	0
Total	385	<1	2	3	<1	0	<1	1	<1	2	312	12	7	18	<1	<1	<1	3	2	5	17	26	43	<1	<1	<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 5. James City County, 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
Chickahominy River	190	<1	<1	189	127	63	0	169	<1	21
College Creek	42	<1	<1	42	19	23	0	39	<1	3
James River	33	2	<1	30	24	7	1	26	3	4
Mill Creek	15	0	0	15	15	<1	0	12	0	3
Powhatan Creek	18	0	<1	18	17	<1	0	16	0	1
Shellbank Creek	4	0	0	4	2	1	0	4	0	<1
Skiffes Creek	22	0	0	22	21	1	0	20	0	2
Skimino Creek	8	0	0	8	8	<1	0	8	0	<1
Taskinas Creek	6	0	0	6	0	5	0	6	0	0
The Thorofare	29	<1	<1	29	28	1	0	28	0	<1
Ware Creek	11	0	0	11	4	6	0	11	0	<1
York River	9	1	<1	8	6	4	<1	7	2	<1
Total	385	4	1	380	271	113	1	346	5	35

*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. James City County, 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**		
Chickahominy River	<1	343	152	2913	94	40	193	3240	0	0	0	0	0	<1	1399	0	60	0	1076	0	705	3	6/2-3/2014
College Creek	<1	232	90	353	0	16	35	404	<1	0	0	0	20	<1	68	<1	0	0	117	72	127	26	6/4/2014, 7/11/2014
James River	10	101	49	349	174	14	<1	537	0	<1	0	0	363	0	2	9	0	0	79	37	47	45	6/3-4/2014, 7/11-12/2014
Mill Creek	0	41	30	177	0	<1	0	177	0	0	0	0	<1	0	56	3	0	0	75	0	43	30	6/3/2014
Powhatan Creek	0	39	31	195	0	0	0	195	0	0	0	0	0	0	128	0	0	0	66	0	1	3	6/3/2014, 7/12/2014
Shellbank Creek	0	13	2	47	0	0	0	47	0	0	0	0	0	0	3	0	0	0	<1	0	43	0	6/3/2014
Skiffes Creek	<1	169	2	212	0	<1	<1	213	0	0	0	0	0	0	0	<1	0	0	0	0	212	100	6/4/2014
Skimino Creek	0	12	10	106	0	26	0	133	64	0	0	0	<1	0	0	0	0	0	0	51	18	10	6/25/2010, 6/28/2010
Taskinas Creek	0	24	5	89	0	0	0	89	8	0	0	0	0	0	0	0	0	0	0	45	36	40	6/28/2010
The Thorofare	<1	30	20	524	0	19	0	543	0	0	<1	0	168	0	0	2	0	0	317	0	56	40	6/3-4/2014, 7/12/2014
Ware Creek	0	15	14	173	0	<1	0	173	0	0	0	0	57	0	0	0	0	0	27	79	9	21	6/29/2010
York River	1	42	42	32	0	156	0	188	3	<1	0	0	88	0	0	2	0	0	0	94	0	31	6/28-29/2010
Total	12	1061	447	5170	268	273	228	5939	75	<1	<1	0	697	<1	1656	17	60	0	1757	379	1298		

**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. James City County, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles							
		dilapidated		boathouses	ramps		marinas		wharfs	jetties	bulkhead	dilapidated		marsh toe revetment	riprap	unconventional	breakwater	groinfields
		docks	docks		private	public	<50 slips	>50 slips				bulkhead	bulkhead					
Chickahominy River	190	219	0	102	16	3	0	0	0	0	3	<1	<1	0	1	0	<1	0
College Creek	42	32	0	8	0	0	0	0	0	0	<1	0	<1	0	<1	0	0	0
James River	33	30	1	16	7	0	2	1	0	7	<1	<1	<1	0	4	0	4	<1
Mill Creek	15	8	0	0	1	0	0	0	0	0	<1	0	<1	0	0	0	0	0
Powhatan Creek	18	97	5	11	3	3	1	1	0	0	2	0	0	0	<1	0	0	0
Shellbank Creek	4	0	0	0	0	0	0	0	0	1	<1	0	0	0	0	0	0	0
Skiffes Creek	22	3	0	0	2	0	0	0	0	0	0	0	<1	0	0	0	0	0
Skimino Creek	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Taskinas Creek	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
The Thorofare	29	0	0	0	0	0	0	0	0	0	<1	0	<1	<1	0	0	<1	0
Ware Creek	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
York River	9	18	1	14	4	2	0	0	0	0	<1	0	0	<1	<1	0	0	<1
Total	385	410	7	151	33	8	3	2	0	8	6	<1	<1	<1	7	0	5	<1

*Total = does not include detached marsh shoreline

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