

Table 4. Chesterfield County and the Cities of Colonial Heights, Petersburg, and Richmond, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2017

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	no tree buffer	tree fringe	total	
Chesterfield County																																	
Appomattox River	52	<1	1	1	0	<1	<1	<1	<1	<1	<1	45	<1	<1	1	<1	0	<1	0	0	0	1	1	2	1	1	3	0	<1	<1	0	0	0
Falling Creek	2	0	0	0	0	0	0	<1	<1	<1	<1	<1	0	0	0	0	0	0	0	0	0	<1	<1	1	<1	<1	1	0	0	0	0	0	0
James River	81	1	2	4	<1	0	<1	<1	1	1	51	5	6	11	3	1	5	0	0	0	2	2	4	1	2	3	2	1	3	0	0	0	
Swift Creek	13	0	<1	<1	0	1	1	0	1	1	10	<1	<1	<1	0	0	0	0	0	0	<1	<1	<1	<1	<1	<1	0	<1	<1	0	0	0	
Chesterfield Total	149	2	4	5	<1	1	1	<1	2	2	106	5	6	12	3	1	5	0	0	0	3	4	7	3	4	7	2	2	4	0	0	0	
City of Colonial Heights																																	
Appomattox River	11	0	0	0	0	0	0	<1	1	2	5	<1	1	1	0	0	0	0	0	0	<1	<1	<1	1	2	3	0	0	0	0	0	0	
Swift Creek	9	0	0	0	0	<1	<1	0	0	0	6	<1	<1	<1	0	0	0	0	0	0	<1	0	<1	<1	3	3	0	0	0	0	0	0	
Colonial Heights Total	20	0	0	0	0	<1	<1	<1	1	2	11	<1	1	1	0	0	0	0	0	0	<1	<1	1	1	5	5	0	0	0	0	0	0	
City of Petersburg																																	
Appomattox River	2	0	0	0	0	0	0	<1	2	2	0	0	0	0	<1	<1	0	0	0	0	1	1	<1	0	<1	0	0	0	0	0	0	0	
Petersburg Total	2	0	0	0	0	0	0	<1	2	2	0	0	0	0	<1	<1	0	0	0	0	1	1	<1	0	<1	0	0	0	0	0	0	0	
City of Richmond																																	
James River	10	0	0	0	<1	0	<1	2	3	4	1	1	1	2	<1	0	<1	0	0	0	<1	1	1	0	0	0	0	0	0	0	0	0	
Richmond Total	10	0	0	0	<1	0	<1	2	3	4	1	1	1	2	<1	0	<1	0	0	0	<1	1	1	0	0	0	0	0	0	0	0	0	
Total	181	2	4	5	<1	1	1	2	8	10	119	7	8	15	4	1	5	0	0	0	4	5	9	4	9	12	2	2	4	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. Chesterfield County and the Cities of Colonial Heights, Petersburg, and Richmond, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2017

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet
Chesterfield County							
Appomattox River	52	<1	1	52	51	1	0
Falling Creek	2	0	0	2	2	0	0
James River	81	2	4	76	75	6	0
Swift Creek	13	0	0	13	13	<1	0
Chesterfield Total	149	2	4	143	141	8	0
City of Colonial Heights							
Appomattox River	11	0	0	11	8	2	<1
Swift Creek	9	0	0	9	9	1	0
Colonial Heights Total	20	0	0	20	16	3	<1
City of Petersburg							
Appomattox River	2	0	<1	2	2	<1	0
Petersburg Total	2	0	<1	2	2	<1	0
City of Richmond							
James River	10	0	<1	9	<1	9	0
Richmond Total	10	0	<1	9	<1	9	0
Total	181	2	5	174	160	20	<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.

Table 6. Chesterfield County and the Cities of Colonial Heights, Petersburg, and Richmond, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2017

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH Community Type ¹ (acres)												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	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII			DNS ^{**}				
Chesterfield County																											
Appomattox River	<1	254	0	472	13	31	14	485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	485	DNS	DNS
Falling Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DNS	DNS
James River	3	179	0	342	3	23	5	345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	345	DNS	DNS
Swift Creek	0	34	0	96	0	6	2	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	DNS	DNS	
Chesterfield Total	3	467	0	910	16	60	21	925	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	925			
City of Colonial Heights																											
Appomattox River	0	27	0	32	4	1	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	DNS	DNS	
Swift Creek	0	35	0	72	0	3	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	DNS	DNS	
Colonial Heights Total	0	62	0	104	4	4	0	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108			
City of Petersburg																											
Appomattox River	0	1	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	DNS	DNS	
Petersburg Total	0	1	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
City of Richmond																											
James River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DNS	DNS	
Richmond Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total	3	530	0	1019	20	64	21	1038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1038			

**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.

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

Table 7. Chesterfield County and the Cities of Colonial Heights, Petersburg, and Richmond, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2017

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
Chesterfield County																		
Appomattox River	52	22	0	6	8	0	1	0	0	0	<1	<1	<1	0	<1	0	0	0
Falling Creek	2	0	0	0	0	0	0	0	0	0	<1	<1	0	0	0	0	0	0
James River	81	53	7	5	9	2	0	0	2	2	1	<1	<1	0	1	<1	<1	0
Swift Creek	13	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Chesterfield Total	149	76	7	11	19	2	1	0	2	2	1	<1	<1	0	2	<1	<1	0
City of Colonial Heights																		
Appomattox River	11	32	0	15	1	2	0	0	0	0	<1	0	0	0	<1	0	0	0
Swift Creek	9	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Colonial Heights Total	20	36	0	15	1	3	0	0	0	0	<1	0	0	0	<1	0	0	0
City of Petersburg																		
Appomattox River	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petersburg Total	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Richmond																		
James River	10	9	1	0	0	1	1	0	2	1	1	0	0	<1	1	<1	0	<1
Richmond Total	10	9	1	0	0	1	1	0	2	1	1	0	0	<1	1	<1	0	<1
Total	181	122	8	26	20	6	2	0	4	3	1	<1	<1	<1	3	<1	<1	<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.