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Summary Tables: York County, 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 Rudnicki


Virginia Institute of Marine Science

Carl Hershner

Virginia Institute of Marine Science

See next page for additional authors

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Authors

Marcia Berman, Karinna Nunez, Sharon Killeen, Tamia Rudnicki, Carl Hershner, Kory Angstadt, David Stanhope, David Weiss, Karen Duhring, and Christine Tombleson

Table 4. York County, Virginia Shoreline Attributes - Miles Surveyed and Inventory Dates - River System Summary

RIVER SYSTEM	Total Miles Surveyed	FIELD SURVEY DATES	
		Original Survey Dates*	Inventory Updated - 2013
Back Creek	18.16	11/17/1998, 6/13/2005	using VBMP 2011 imagery/Bing high resolution oblique imagery
Back River	7.26	Remote coded	using VBMP 2011 imagery/Bing high resolution oblique imagery
Bay Tree Creek	5.42	8/20/2009	using VBMP 2011 imagery/Bing high resolution oblique imagery
Carter Creek	7.26	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Chesapeake Bay	3.14	6/13/2005, 8/20/2009	using VBMP 2011 imagery/Bing high resolution oblique imagery
Chisman Creek	35.57	7/30/2009, 8/18/2009, 8/20/2009	using VBMP 2011 imagery/Bing high resolution oblique imagery
Felgates Creek	14.16	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Indian Creek	5.09	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
King Creek	10.45	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Poquoson River	34.64	7/23/2009, 7/28/2009, 7/30/2009, 8/18/2009	using VBMP 2011 imagery/Bing high resolution oblique imagery
Queen Creek	38.66	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Skimino Creek	8.46	11/13/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Wormley Creek	10.69	11/17/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
York River	24.54	11/13/1998, 11/17/1998	using VBMP 2011 imagery/Bing high resolution oblique imagery
Total	223.50		

* Data was updated in the lab in 2009 using VBMP 2006/2007 imagery and VBMP 2009 Preliminary imagery.

Note: Goodwin Islands are marsh islands and therefore are not included in the above table.

Table 5. York County, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary

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
Back Creek	18.16	0.32	0.08	0.39	0.00	0.00	0.00	0.63	0.00	0.63	9.86	0.62	0.41	1.03	0.00	0.00	0.00	0.43	0.04	0.47	4.78	0.62	5.39	0.39	0.00	0.39
Back River	7.26	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.34	0.01	0.09	0.10	0.00	0.00	0.00	0.70	0.00	0.70	1.70	3.37	5.07	0.00	0.00	0.00
Bay Tree Creek	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	2.65	0.00	2.65	0.57	0.07	0.64	0.00	0.00	0.00
Carter Creek	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23	0.02	0.00	0.02	0.00	0.00	0.00	0.15	0.46	0.62	0.00	0.36	0.36	0.04	0.00	0.04
Chesapeake Bay	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	0.06	0.00	0.06	0.00	0.00	0.00	0.35	0.00	0.35	0.77	0.06	0.83	0.00	0.00	0.00
Chisman Creek	35.57	0.05	0.15	0.20	0.00	0.00	0.00	0.47	0.00	0.47	6.26	1.40	0.58	1.98	0.00	0.00	0.00	0.39	0.32	0.72	18.40	7.37	25.77	0.18	0.00	0.18
Felgates Creek	14.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.64	0.00	0.25	0.25	0.00	0.00	0.00	0.67	0.00	0.67	0.00	0.59	0.59	0.00	0.00	0.00
Indian Creek	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83	0.23	0.00	0.23	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
King Creek	10.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.97	0.20	0.81	1.01	0.00	0.00	0.00	0.03	0.00	0.03	0.22	0.23	0.44	0.00	0.00	0.00
Poquoson River	34.64	0.05	0.57	0.63	0.00	0.00	0.00	0.00	0.05	0.05	6.32	1.56	1.23	2.80	0.00	0.00	0.00	0.16	0.09	0.25	12.68	11.44	24.12	0.46	0.00	0.46
Queen Creek	38.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.61	0.03	0.57	0.60	0.00	0.00	0.00	0.99	2.74	3.72	0.11	3.61	3.72	0.00	0.00	0.00
Skimino Creek	8.46	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	7.95	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.08	0.13	0.27	0.40	0.00	0.00	0.00
Wormley Creek	10.69	0.00	0.00	0.00	0.06	0.00	0.06	0.20	0.13	0.33	4.02	0.09	0.35	0.44	0.00	0.00	0.00	0.05	0.00	0.05	2.50	3.06	5.56	0.20	0.04	0.24
York River	24.54	0.00	0.00	0.00	0.39	0.06	0.45	0.51	0.13	0.65	10.24	3.98	1.29	5.27	0.67	0.00	0.67	3.83	1.00	4.83	1.89	0.20	2.08	0.27	0.08	0.35
Total	223.50	0.46	0.80	1.26	0.45	0.10	0.55	1.81	0.31	2.13	113.29	8.20	5.58	13.78	0.67	0.00	0.67	10.50	4.67	15.17	43.75	31.23	74.99	1.54	0.12	1.66

*Total = does not include marsh island shoreline

Note: Goodwin Islands are marsh islands and therefore are not included in the above table.

Table 6. York County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT AND EROSION STATUS (miles of shore)																
		bare	partial	full	0-5 FEET				5-10 FEET				10-30 FEET				>30 FEET				
					erosional	stable	transitional	undercut	erosional	stable	transitional	undercut	erosional	stable	transitional	undercut	erosional	stable	transitional	undercut	
Back Creek	18.16	0.33	0.23	17.61	0.12	17.71	0.31	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Back River	7.26	0.00	0.00	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bay Tree Creek	5.42	0.00	0.00	5.42	0.31	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carter Creek	7.26	0.00	0.00	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chesapeake Bay	3.14	0.00	0.00	3.14	0.40	2.62	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chisman Creek	35.57	0.37	0.95	34.25	1.05	34.22	0.00	0.05	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Felgates Creek	14.16	0.00	0.00	14.16	0.00	14.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Indian Creek	5.09	0.00	0.00	5.09	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King Creek	10.45	0.00	0.25	10.20	0.16	6.93	0.00	0.00	0.00	0.09	0.06	0.00	0.09	3.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Poquoson River	34.64	0.04	1.50	33.10	1.43	32.46	0.00	0.04	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen Creek	38.66	0.03	0.04	38.59	0.00	28.77	0.00	0.00	0.06	6.14	0.00	0.00	0.00	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skimino Creek	8.46	0.00	0.00	8.46	0.00	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wormley Creek	10.69	0.06	0.71	9.92	0.08	2.29	0.05	0.00	0.11	4.22	0.17	0.00	0.05	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
York River	24.54	1.06	1.35	22.13	1.20	11.54	0.49	0.00	1.63	4.05	0.00	0.00	0.28	5.18	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Total	223.50	1.89	5.03	216.57	4.74	183.74	0.97	0.10	1.80	15.48	0.23	0.00	0.42	15.77	0.23	0.00	0.00	0.00	0.00	0.00	0.00

*Total = does not include marsh island shoreline

Note: Goodwin Islands are marsh islands and therefore are not included in the above table.

Table 7. York County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		MARSH																	PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES	
				Marsh Type (acres)					Community Type ¹ (acres)														
				total	field checked	embayed	extensive	fringe	marsh island	total	I	II	III	IV	V	VI	VII	VIII ²	IX	X			XI
Back Creek	0.17	126	97	9.53	155.87	29.39	0.18	194.98	168.93	0.00	0.18	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	12.29	12.24	70	6/22/2010, 7/29/2013
Back River	0.00	30	0	24.58	43.64	29.43	1.95	99.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.61	DNS	DNS
Bay Tree Creek	0.31	13	7	0.00	129.22	23.82	0.06	153.10	26.91	0.00	16.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.36	12.57	57	7/29/2013
Carter Creek	0.00	39	2	16.21	98.81	29.30	0.54	144.86	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144.83	50	6/25/2010
Chesapeake Bay	1.42	29	25	2.82	68.27	25.87	0.00	96.95	76.86	0.00	0.00	0.00	0.00	0.00	0.00	4.57	0.00	0.00	0.00	15.24	0.28	24	7/29/2013
Chisman Creek	0.69	377	347	27.40	37.97	48.31	0.03	113.71	0.05	0.00	42.91	0.93	0.00	0.00	0.00	1.81	0.00	0.00	0.00	19.67	19.15	20	7/29/2013, 7/31/2013
Felgates Creek	0.05	44	0	142.10	53.86	9.55	0.01	205.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	205.52	DNS	DNS
Goodwin Islands	0.00	11	8	0.00	158.14	0.00	90.30	248.44	5.92	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	241.75	0.33	38	6/22/2010
Indian Creek	0.04	46	0	15.84	0.00	12.26	1.37	29.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.47	DNS	DNS
King Creek	0.28	38	18	95.50	84.47	16.31	2.05	198.33	6.66	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.28	175.36	72	6/23/2010
Poquoson River	0.36	318	198	32.86	47.69	45.82	0.45	126.82	14.39	0.00	1.06	0.13	0.00	0.00	0.00	0.70	0.00	0.00	0.00	32.64	77.90	17	7/31/2013
Queen Creek	0.12	75	32	83.90	520.03	82.59	0.27	686.77	487.12	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	8.80	190.79	19	6/23-24/2010
Skimino Creek	0.02	27	20	5.78	128.53	29.21	0.00	163.52	149.72	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	8.52	4.92	0	6/25/2010, 6/28/2010
Wormley Creek	0.08	82	72	7.86	0.00	10.53	0.00	18.39	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.34	4.29	21	6/21/2010
York River	7.80	110	72	65.00	115.17	60.17	1.93	242.27	119.26	0.47	0.00	1.78	8.02	0.00	0.00	5.28	0.00	0.00	0.00	27.80	79.67	43	6/21-25/2010
Total	11.34	1365	898	529.36	1641.68	452.57	99.13	2722.74	1069.42	0.47	60.83	2.88	8.02	0.00	0.00	14.27	0.00	0.00	0.00	480.69	1056.94		

**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.

Table 8. York County, Virginia Shoreline Attributes - Shoreline Features - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	No.		No. ramps		No. groinfields	No. marinas		No. jetties	No. breakwater ¹	Miles of debris	Miles of unconventional	Miles of bulkhead	Miles of	Miles of	Miles of riprap	Miles of wharf	
		No. docks	dilapidated docks	No. boathouses	private		public	<50 slips						>50 slips	dilapidated bulkhead			marsh toe revetment
Back Creek	18.16	77	13	16	8	2	0	2	0	3	2	0.00	0.25	0.95	0.07	0.00	1.30	0.00
Back River	7.26	7	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bay Tree Creek	5.42	6	0	0	0	0	0	0	0	0	0	0.00	0.00	0.16	0.00	0.00	0.03	0.00
Carter Creek	7.26	2	0	0	2	0	0	0	0	0	0	0.00	0.00	0.02	0.00	0.00	0.09	0.00
Chesapeake Bay	3.14	2	1	1	3	0	1	0	0	0	3	0.00	0.00	0.04	0.00	0.00	0.36	0.00
Chisman Creek	35.57	315	11	79	30	0	3	7	0	0	6	0.28	0.96	4.26	0.11	0.34	4.52	0.00
Felgates Creek	14.16	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indian Creek	5.09	1	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.10	0.00
King Creek	10.45	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Poquoson River	34.64	204	11	78	22	2	0	0	0	0	3	0.27	0.59	1.29	0.11	0.26	3.36	0.00
Queen Creek	38.66	19	0	2	3	0	0	0	1	0	0	0.00	0.00	0.02	0.05	0.00	0.33	0.00
Skimino Creek	8.46	3	0	1	0	1	0	0	0	0	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wormley Creek	10.69	62	2	34	6	0	1	1	1	0	0	0.00	0.00	0.86	0.00	0.00	0.76	0.00
York River	24.54	15	4	6	1	0	2	0	0	2	11	0.00	0.05	0.60	0.00	0.00	9.03	0.00
Total	223.50	713	42	217	75	5	7	10	2	5	26	0.55	1.85	8.20	0.34	0.60	19.89	0.00

*Total = does not include marsh island shoreline

¹ number of breakwater groups (one or more breakwaters within a group)

Note: Goodwin Islands are marsh islands and therefore are not included in the above table.