

Table 4. Essex County Shoreline Attributes - River Reach Data

REACH NUMBER	REACH LENGTH SURVEYED (miles)	RIPARIAN LAND USE (% of reach length surveyed)							SHORELINE FEATURES									BANK						BANK COVER (% of reach length)			BUFFER CONDITION			
																		(bank height and erosion status - (%))									BEACH PRESENT			MARSH PRESENT
		0-5 ft			5-10 ft			>10 ft			(% of reach length)			(% of reach length)		(% of reach length)														
		low	high	low	high	low	high	bare	partial	full	Eroding	Stable	Eroding	Stable																
25	3.95	82	7	0	2	0	0	9	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	1	0	16
27	7.84	90	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	5
28	1.08	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	20
29	4.82	88	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	14
30	1.97	64	11	6	14	0	0	5	1	0	0	0	0	0	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0
31	4.99	97	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	70
32	3.82	56	11	1	21	0	0	11	5	1	1	0	0	0	2	0	0	54	0	40	0	6	0	2	25	73	0	0	0	12
33	4.21	4	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	98
34	9.14	22	68	1	7	0	0	2	3	0	1	0	0	0	1	3	0	84	0	2	1	7	6	2	5	93	0	4	0	77
35	0.85	61	22	12	0	0	0	5	1	0	0	0	0	0	0	0	0	70	6	0	21	0	3	0	15	85	0	40	0	23
36	16.59	60	39	0	0	0	0	1	0	0	0	0	0	0	0	0	0	99	1	0	0	0	0	0	0	100	0	0	0	98
37	0.94	0	27	0	17	0	0	56	1	0	0	0	0	0	0	0	0	93	7	0	0	0	0	0	0	100	0	19	10	39
38	20.34	10	87	0	0	0	0	3	0	0	0	0	0	0	0	0	0	99	1	0	0	0	0	0	0	100	0	1	0	99
39	44.97	78	8	0.5	3	0	0.5	10	4	0	0	0	0	0	0.07	0.31	0	90	3	6	1	0	0	0	0	100	0	0	2	77
40	11.87	90	9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	99	0	1	0	0	0	0	0	100	0	0	0	93
49	35.65	100	0	0	0	0	0	0	1	0	0	0	0	0	0	0.08	0	97	0	0	0	3	0	0	0	100	0	0	0	100
50	8.46	3	70	1	26	0	0	0	26	3	2	0	8	0	0	13	7	81	1	2	0	9	7	5	2	93	0	4	1	75
51	2.87	14	67	3	13	0	0	3	1	0	0	0	0	0	1	2	0	86	9	5	0	0	0	0	4	96	0	7	0	93
52	28.01	93	5	0	2	0	0	0	10	0	0	0	0	0	0	0.11	1	99	0	1	0	0	0	0	0	100	0	0	0	96
53	1.04	13	4	12	71	0	0	0	10	0	0	0	1	0	0	8	28	7	2	7	0	59	25	0	11	89	0	0	0	46
54	3.85	7	24	1	53	15	0	0	26	10	2	1	5	1	2	34	14	59	1	6	0	33	1	4	4	92	0	17	1	42
55	22.17	83	10	0	5	2	0	0	18	8	1	1	0	0	0	2	0.03	95	0	4	0	1	0	0	0	100	0	0	0	82
56	0.95	0	41	0	59	0	0	0	11	7	2	0	2	0	0	51	7	90	0	0	0	10	0	0	0	100	0	6	0	19
57	0.48	0	0	0	100	0	0	0	6	0	3	0	1	0	0	65	3	100	0	0	0	0	0	0	0	100	0	84	0	27
58	2.90	61	8	0	31	0	0	0	15	0	4	0	1	0	1	11	1	100	0	0	0	0	0	0	0	100	0	6	0	59
59	49.75	83	13	1	2	0	0	1	38	5	4	0	0	0	0	0.16	0.07	78	0	19	0	2	1	0	0	100	0	0	0	91
60	0.31	9	9	0	82	0	0	0	8	3	3	0	1	0	0	60	0	100	0	0	0	0	0	0	0	100	0	7	0	34
61	1.58	23	7	0	70	0	0	0	21	11	14	0	2	0	0	68	6	95	0	1	0	4	0	0	0	100	0	7	0	29
62	0.19	0	0	0	100	0	0	0	5	0	2	0	0	0	0	60	28	100	0	0	0	0	0	0	0	100	0	0	0	0
63	0.63	0	51	0	49	0	0	0	7	2	5	0	0	0	0	22	19	100	0	0	0	0	0	0	0	100	0	1	0	53
64	0.58	49	11	0	40	0	0	0	6	2	2	0	0	0	0	15	28	100	0	0	0	0	0	0	0	100	0	0	0	87
65	0.90	70	5	0	25	0	0	0	0	0	0	0	0	0	0	0	28	70	0	19	0	11	0	0	0	100	0	4	0	70
66	3.99	34	22	0	31	0	1	12	19	4	2	0	2	0	0	12	7	73	7	10	0	5	5	0	5	95	6	24	10	63

Table 4. Essex County Shoreline Attributes - River Reach Data (Con't)

REACH NUMBER	REACH LENGTH SURVEYED (miles)	RIPARIAN LAND USE (% of reach length surveyed)							SHORELINE FEATURES									BANK						BANK COVER (% of reach length)			BUFFER CONDITION			
																		(bank height and erosion status - (%))									BEACH PRESENT			MARSH PRESENT
		0-5 ft			5-10 ft			>10 ft			(% of reach length)			(% of reach length)		(% of reach length)														
		low	high	low	high	low	high	bare	partial	full	Eroding	Stable	Eroding	Stable																
67	0.13	0	0	0	100	0	0	0	2	1	1	0	1	0	0	29	55	0	0	0	5	51	44	0	0	100	49	0	0	0
68	0.96	0	18	0	82	0	0	0	12	0	4	0	3	0	0	4	2	0	77	0	16	0	7	0	0	100	93	0	7	59
69	2.80	14	18	9	57	0	0	2	31	4	3	0	4	0	0	31	20	28	11	24	6	31	0	0	0	100	14	59	2	38
70	9.03	58	6	1	29	6	0	0	34	17	6	0	6	1	4	10	19	54	0	11	4	23	8	6	5	89	1	16	2	50
71	0.16	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	100
72	0.71	56	0	0	44	0	0	0	14	0	1	0	0	0	0	0	0	53	0	13	0	34	0	0	0	100	0	66	0	34
Total	316.65***	68.85	20.52	0.43	6.98	0.52	0.10	2.60	336	78	63	2	34	2	7	2.62	1.74	88.77	1.11	5.77	0.42	3.08	0.85	0.49	0.91	98.60	0.52	2.49	0.79	79.23

* boathouses
** groinfields
*** Total miles of surveyed shoreline for Essex County - 125 miles of which where remotely surveyed.

Table 5. Essex County Shoreline Attributes - Plate Summary

PLATE NUMBER	TOTAL MILES SURVEYED	RIPARIAN LAND USE							SHORELINE FEATURES									BANK						BANK COVER			BUFFER CONDITION			
		(miles)																(bank height and erosion status - miles of shore)						(miles)			BEACH PRESENT		MARSH PRESENT	
		forest	scrub-shrub	grass	residential	commercial	bare	agriculture	No. docks	No. bths*	No. ramps private	No. public	No. groin**	No. marinas	No. jetties	Miles of bulkhead	Miles of riprap	0-5 ft		5-10 ft		>10 ft					(miles)		(miles)	
																		low	high	low	high	low	high	bare	partial	full	Eroding	Stable	Eroding	Stable
1	4.96	3.80	0.00	0.08	1.07	0.00	0.00	0.00	27	5	4	0	3	0	0	0.17	0.94	2.93	0.00	0.59	0.08	0.92	0.43	0.51	0.19	4.26	0.00	0.56	0.00	2.95
2	5.01	1.94	0.55	0.05	1.93	0.54	0.00	0.00	21	14	3	0	3	1	4	0.75	0.87	2.41	0.00	0.48	0.31	1.50	0.32	0.07	0.36	4.59	0.06	1.37	0.22	1.90
3	3.28	0.49	0.68	0.24	1.81	0.00	0.00	0.06	36	4	4	0	5	0	0	0.88	0.63	0.88	0.49	0.74	0.25	0.86	0.07	0.00	0.00	3.28	0.69	1.65	0.06	1.41
4	5.81	2.08	0.94	0.00	2.29	0.00	0.04	0.47	30	5	6	0	3	0	0	0.55	0.63	3.63	0.86	0.57	0.11	0.34	0.30	0.00	0.21	5.59	0.94	0.99	0.47	3.57
5	12.79	6.68	2.80	0.11	2.52	0.00	0.00	0.68	63	19	30	0	4	0	0	1.80	0.43	12.48	0.00	0.15	0.00	0.16	0.00	0.00	0.02	12.77	0.00	0.24	0.00	10.52
6	29.86	22.53	4.12	0.11	2.42	0.00	0.00	0.68	47	6	13	0	3	0	1	1.01	0.07	22.90	0.00	6.47	0.00	0.33	0.16	0.10	0.02	29.74	0.00	0.73	0.00	26.97
7	26.25	25.68	0.17	0.04	0.28	0.01	0.07	0.00	23	3	1	0	0	0	0	0.02	0.00	17.52	0.00	7.43	0.00	1.14	0.16	0.10	0.00	26.15	0.00	0.00	0.00	23.23
8	11.72	9.15	2.48	0.00	0.09	0.00	0.00	0.00	4	0	0	0	0	0	0	0.00	0.00	11.42	0.00	0.30	0.00	0.00	0.00	0.00	0.00	11.72	0.00	0.00	0.00	10.28
9	20.72	15.55	2.63	0.03	1.90	0.62	0.00	0.00	36	15	3	1	4	0	0	1.25	0.16	19.10	0.00	0.96	0.06	0.59	0.02	0.04	0.15	20.53	0.00	0.05	0.00	16.62
10	4.99	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	0.00	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	0.00	3.33
11	8.19	2.32	2.37	0.14	2.79	0.54	0.03	0.00	34	10	2	1	5	1	2	1.17	0.84	5.94	0.07	0.21	0.00	1.65	0.33	0.15	0.23	7.81	0.00	0.65	0.05	5.32
12	29.43	26.54	1.60	0.20	0.98	0.00	0.03	0.08	12	0	0	0	0	0	0	0.06	0.18	28.42	0.28	0.48	0.00	0.25	0.00	0.00	0.14	29.29	0.00	0.19	0.02	28.14
13	10.22	0.15	7.87	0.16	1.98	0.00	0.00	0.05	24	3	2	0	8	0	0	1.08	0.28	8.69	0.30	0.16	0.00	0.62	0.45	0.31	0.14	9.77	0.00	0.51	0.06	8.23
14	49.42	46.86	1.79	0.07	0.40	0.00	0.02	0.28	4	0	0	0	0	0	0	0.02	0.38	47.24	0.29	0.47	0.00	1.24	0.19	0.19	0.06	49.18	0.00	0.05	0.49	47.15
15	27.90	9.05	14.09	0.07	1.49	0.00	0.00	3.24	4	0	0	0	0	0	0	0.03	0.14	25.94	0.48	0.98	0.25	0.11	0.02	0.00	0.04	27.86	0.00	0.45	0.31	26.07
16	11.92	7.45	1.20	0.07	0.44	0.02	0.07	2.66	1	0	0	0	0	0	0	0.00	0.01	10.87	0.10	0.83	0.00	0.00	0.00	0.00	0.00	11.92	0.00	0.00	0.08	10.66
17	41.12	22.74	16.07	0.07	0.52	0.00	0.10	1.63	1	0	0	0	0	0	0	0.00	0.00	40.02	1.02	0.02	0.05	0.00	0.00	0.00	0.00	41.12	0.00	0.00	0.83	38.83
18	18.19	16.35	0.97	0.03	0.00	0.00	0.10	0.74	0	0	0	0	0	0	0	0.00	0.00	16.80	0.06	1.34	0.00	0.00	0.00	0.00	0.00	18.19	0.00	0.00	0.00	11.62
19	4.59	2.68	0.87	0.25	0.60	0.00	0.00	0.20	4	0	1	0	0	0	0	0.08	0.25	2.85	0.08	0.19	0.26	0.65	0.55	0.23	0.55	3.81	0.00	0.73	0.00	1.76
20	13.96	2.13	10.49	0.09	0.93	0.00	0.00	0.31	6	1	0	0	0	0	0	0.10	0.19	12.47	0.03	0.84	0.05	0.42	0.14	0.06	1.00	12.90	0.00	0.14	0.00	11.12
21	7.81	6.74	0.46	0.03	0.42	0.00	0.00	0.16	3	1	1	0	0	0	0	0.00	0.00	6.60	0.00	1.15	0.00	0.06	0.00	0.60	0.50	7.25	0.00	0.00	0.00	3.97
22	6.21	4.93	0.80	0.12	0.28	0.00	0.00	0.09	1	0	0	0	0	0	0	0.04	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.37
23	7.03	6.23	0.80	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	0.00	0.00	0.00	0.93
24	11.10	9.62	1.03	0.00	0.09	0.00	0.00	0.35	0	0	0	0	0	0	0	0.00	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.10	0.00	0.05	0.00	1.06
Essex Total	316.65***	218.00	64.97	1.37	22.10	1.66	0.32	8.23	336	78	63	2	34	2	7	8.28	5.51	280.88	3.50	18.25	1.33	9.74	2.70	1.56	2.89	312.06	1.64	7.87	2.49	250.67

* boathouses
** groinfields
*** Total miles of surveyed shoreline for Essex County - 125 miles of which where remotely surveyed.