

Table 4. Baltimore County and City of Baltimore Shoreline Attributes - Riparian Land Use and Bank and Buffer Conditions - Plate Summary

PLATE NUMBER	TOTAL MILES ASSESSED	RIPARIAN LAND USE (miles)										BANK (bank height and erosion status - miles of shore)												BANK COVER (miles)			BUFFER CONDITION (miles)				
		agriculture	bare	commercial	forest	grass	industrial	military	paved	residential	scrub-shrub	0-5 ft			5-10 ft			10-30 ft			>30 ft			BANK COVER (miles)			BEACH PRESENT (miles)		MARSH PRESENT (miles)		
												low	high	undercut	low	high	undercut	low	high	undercut	low	high	undercut	bare	partial	full	eroding	stable	eroding	stable	
1	6.72	0.00	0.00	0.12	2.29	0.24	0.00	0.00	0.00	3.13	0.95	6.02	0.00	0.00	0.18	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.00	0.03	0.00	1.86	
2	7.00	0.00	0.00	0.00	1.98	0.05	0.00	0.00	0.01	2.88	2.09	6.82	0.00	0.00	0.07	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.67	0.00	2.95	
3	5.14	0.00	0.00	0.00	2.75	0.51	0.00	0.00	0.00	1.40	0.48	3.76	0.00	0.00	0.29	0.29	0.00	0.51	0.29	0.00	0.00	0.00	0.00	0.00	0.39	0.33	4.43	0.36	1.31	0.00	1.79
4	11.70	0.00	0.00	0.00	6.95	0.00	0.46	0.00	0.08	0.48	3.72	11.64	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	8.35	
5	10.95	0.00	0.00	0.13	9.04	0.00	0.00	0.00	0.00	1.28	0.50	12.11	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	8.94		
6	6.54	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00	5.21	6.54	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	0.00	0.00	4.41	
7	13.56	0.00	0.00	0.61	1.67	0.16	0.20	0.00	0.00	10.10	0.82	13.53	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	13.53	0.00	0.62	0.00	0.79
8	15.76	0.00	0.00	4.52	0.81	0.45	0.19	0.00	0.00	9.09	0.70	14.28	0.02	0.00	0.31	0.00	0.00	1.11	0.03	0.00	0.00	0.00	0.00	0.00	0.12	0.10	15.54	0.00	1.04	0.00	0.77
9	15.08	0.00	0.08	1.49	1.69	1.24	0.83	0.00	0.02	8.60	1.13	12.15	0.00	0.00	0.88	0.16	0.00	1.85	0.03	0.00	0.00	0.00	0.00	0.00	0.12	0.22	14.74	0.00	0.60	0.00	1.13
10	18.33	0.00	0.00	1.36	5.51	0.68	0.00	0.00	0.06	9.97	0.74	14.31	0.00	0.06	1.70	0.14	0.00	1.93	0.12	0.00	0.00	0.00	0.00	0.00	0.24	0.18	17.84	0.05	0.84	0.00	2.56
11	10.37	0.00	0.00	0.13	3.34	2.17	0.00	0.00	0.02	3.74	0.98	8.17	0.00	0.00	0.93	0.06	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	10.20	0.02	0.88	0.00	3.48
12	6.74	0.00	0.00	0.19	0.38	0.78	0.00	0.00	0.00	4.72	0.68	5.41	0.00	0.00	0.48	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	6.61	0.00	1.17	0.00	0.18
13	6.79	0.00	0.00	0.25	2.32	0.18	0.00	0.00	0.00	3.81	0.24	4.98	0.25	0.20	1.03	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.25	6.34	0.00	0.17	0.00	1.25
14	6.12	0.00	0.00	1.03	0.62	2.10	0.00	0.00	0.00	2.04	0.32	4.72	0.00	0.22	1.14	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	0.00	0.00	0.02	0.63
15	2.16	0.00	0.00	0.97	0.10	0.00	0.00	0.00	0.07	0.95	0.08	1.63	0.00	0.10	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	0.00	0.00	0.02	0.03
16	4.04	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	3.72	1.12	0.00	0.00	1.08	0.00	0.00	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.04	0.00	0.61	0.00	0.51
17	4.15	0.00	0.00	0.00	0.41	0.00	0.20	0.00	0.04	0.00	3.50	2.82	0.00	0.00	0.54	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	0.00	1.32	0.00	0.46
18	6.24	0.00	0.00	0.26	1.50	0.14	0.00	0.00	0.00	2.22	2.13	5.92	0.27	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.23	5.89	0.00	0.55	0.00	0.93
19	10.85	0.64	0.00	0.74	2.46	1.06	0.00	0.00	0.03	3.53	2.37	9.44	0.00	0.00	1.26	0.04	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.11	0.04	10.70	0.00	0.10	0.00	3.52
20	11.69	0.00	0.00	1.02	0.64	0.21	1.46	0.00	0.29	6.86	1.21	11.13	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	11.41	0.00	0.08	0.00	1.83
21	7.29	0.00	0.00	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00	6.68	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00
22	10.71	0.00	0.00	0.41	1.75	1.91	0.98	0.00	0.35	1.92	3.39	10.12	0.00	0.00	0.33	0.10	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	10.50	0.10	1.82	0.00	3.48
23	15.46	0.00	0.00	1.16	0.62	2.76	0.00	0.00	0.23	7.69	3.00	14.19	0.00	0.00	1.11	0.06	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	15.41	0.03	0.42	0.00	2.79
24	5.47	0.00	0.00	0.44	0.00	0.65	2.49	0.00	1.41	0.28	0.21	5.06	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.47	0.00	0.34	0.00	0.09
25	7.07	0.00	0.61	0.70	0.00	0.19	4.53	0.00	0.89	0.00	0.15	7.07	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	7.07	0.00	0.00	0.00	0.00
26	9.65	0.00	0.06	3.27	0.00	0.02	4.87	0.77	0.44	0.00	0.21	9.65	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	9.65	0.00	0.00	0.00	0.00
27	12.65	0.00	0.91	5.74	0.00	0.78	2.90	0.00	1.09	0.00	1.22	12.60	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.65	0.00	0.00	0.00	0.00
28	8.95	0.00	0.20	1.39	0.00	1.33	2.02	0.00	0.96	0.00	3.04	8.95	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	8.95	0.00	0.00	0.00	0.00
29	3.50	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.14	3.09	3.50	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	3.50	0.00	0.00	0.00	0.00
30	7.58	0.00	0.00	0.45	0.00	0.00	3.49	0.00	0.00	0.00	3.64	7.58	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	7.58	0.00	0.00	0.00	0.00
31	10.26	0.00	0.00	0.00	0.13	0.13	9.46	0.00	0.00	0.00	0.54	10.10	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.59	9.57	0.00	0.05	0.00	0.00
32	6.59	0.00	0.00	0.00	0.00	1.42	4.89	0.00	0.00	0.00	0.28	6.31	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	6.13	0.00	0.00	0.00	0.24
Total*	253.04	0.64	1.66	24.01	43.24	17.29	39.88	0.77	5.07	75.89	44.57	229.35	0.55	0.58	12.40	0.85	0.05	9.94	0.47	0.00	0.00	0.00	0.00	1.59	2.21	250.40	0.53	10.81	0.02	47.21	

Total miles assessed = 253.04; miles assessed remotely = 78.10

\* Total Shoreline Miles 285.12 (Maryland DNR 1994)

Table 5. Baltimore County and City of Baltimore Shoreline Attributes - Shoreline Features - Plate Summary

PLATE NUMBER	TOTAL MILES ASSESSED	SHORELINE FEATURES																	
		No. docks	No. dilapidated docks	No. boathouses	No. ramps		No. outfalls	No. groinfields	No. marinas			No. jetties	No. breakwaters	No. wharves	Miles of miscellaneous	Miles of bulkhead	Miles of dilapidated bulkhead	Miles of riprap	
1	6.72	105	7	0	9	0	2	0	1	0	0	0	0	0	0	0.26	1.90	0.07	0.36
2	7.00	133	3	6	13	0	4	5	0	0	0	0	0	0	0	0.16	2.05	0.02	0.31
3	5.14	95	3	1	6	0	5	2	0	0	0	0	0	0	0	0.00	1.25	0.09	0.57
4	11.70	16	0	1	4	0	1	0	0	0	0	3	1	0	0.04	0.39	0.00	0.32	
5	10.95	43	1	2	11	0	1	0	1	0	0	0	0	0	0.14	0.42	0.10	0.18	
6	6.54	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	1.12	
7	13.56	511	8	13	49	0	7	2	6	0	0	4	1	0	0.83	7.86	0.08	1.62	
8	15.76	437	4	8	18	0	11	5	11	2	1	0	0	0	0.93	6.78	0.12	1.90	
9	15.08	371	7	6	10	0	15	1	13	0	0	0	0	0	0.74	6.03	0.51	1.55	
10	18.33	394	9	11	24	0	11	1	9	0	0	1	3	0	2.03	5.61	0.19	2.07	
11	10.37	131	4	3	7	2	3	2	0	0	0	0	0	0	1.89	1.29	0.01	1.64	
12	6.74	225	8	35	14	0	0	0	1	0	0	0	0	0	0.35	3.15	0.00	0.90	
13	6.79	186	4	0	11	0	0	0	2	0	0	0	0	0	0.46	2.05	0.10	0.96	
14	6.12	104	4	4	7	0	0	0	4	0	0	0	0	0	0.23	1.09	0.00	0.95	
15	2.16	30	1	2	2	0	0	0	2	0	0	0	0	0	0.05	0.49	0.02	0.39	
16	4.04	1	0	0	0	0	13	0	0	0	0	0	1	0	0.00	0.00	0.00	3.21	
17	4.15	2	0	0	0	0	4	0	0	0	0	0	1	0	0.00	0.00	0.00	1.45	
18	6.24	107	5	18	8	0	0	0	1	0	0	0	1	0	0.43	1.87	0.17	0.28	
19	10.85	131	0	3	4	0	0	0	0	1	0	0	0	0	0.80	1.12	0.40	1.76	
20	11.69	245	0	13	2	0	0	0	0	7	2	0	0	0	0.00	2.05	0.00	2.24	
21	7.29	14	0	0	0	0	0	0	0	0	0	0	0	1	0.00	1.74	0.00	2.48	
22	10.71	82	2	1	5	3	2	0	1	0	0	0	2	0	1.96	1.08	0.18	1.91	
23	15.46	386	9	15	29	2	19	1	7	0	0	0	0	0	1.69	5.39	0.42	1.45	
24	5.47	10	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1.55	0.00	3.08	
25	7.07	4	0	0	0	0	0	0	0	0	0	0	0	5	0.00	4.12	0.00	1.09	
26	9.65	27	0	0	0	0	0	0	0	5	5	0	0	10	0.00	6.20	0.00	0.92	
27	12.65	36	0	0	0	2	0	0	0	0	6	0	0	4	0.00	4.32	0.00	2.63	
28	8.95	24	0	0	0	0	0	0	0	0	2	0	0	0	0.00	0.49	0.00	3.76	
29	3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.49	
30	7.58	17	0	0	0	0	0	0	0	0	0	0	0	4	0.00	2.73	0.00	2.63	
31	10.26	32	0	0	0	0	0	0	0	0	0	0	0	4	1.38	3.24	0.00	4.17	
32	6.59	14	0	0	0	1	0	0	0	0	0	0	0	1	0.52	1.00	0.00	4.10	
Total*	253.04	3497	73	133	211	10	84	16	51	14	11	6	9	28	13.49	69.90	2.30	44.41	

\* nc (not counted) - number of boat slips were not counted in marinas within this column.

\* Total Shoreline Miles 285.12 (Maryland DNR 1994)

Table 6. Baltimore County and City of Baltimore Shoreline Attributes - Riparian Land Use and Bank and Buffer Conditions - River Segment Summary

RIVER SEGMENT	TOTAL MILES ASSESSED	RIPARIAN LAND USE (miles)											BANK (bank height and erosion status - miles of shore)												BANK COVER (miles)			BUFFER CONDITION (miles)								
		agriculture	bare	commercial	forest	grass	industrial	military	paved	residential	scrub-shrub	0-5 ft			5-10 ft			10-30 ft			>30 ft			BANK COVER (miles)			BEACH PRESENT (miles)		MARSH PRESENT (miles)							
												low	high	undercut	low	high	undercut	low	high	undercut	low	high	undercut	bare	partial	full	eroding	stable	eroding	stable						
1	12.98	0.00	0.00	0.12	4.12	0.24	0.00	0.00	0.01	5.48	3.02	12.17	0.00	0.00	0.18	0.00	0.00	0.63	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	0.39	0.00	4.71
2	38.42	0.00	0.00	0.56	17.78	0.67	0.46	0.00	0.08	9.17	9.70	38.12	0.00	0.00	0.40	0.32	0.00	0.51	0.29	0.00	0.00	0.00	0.00	0.00	0.41	0.33	38.89	0.36	2.62	0.00	20.00					
3	45.59	0.00	0.08	7.06	7.09	2.12	0.83	0.00	0.09	26.06	2.25	38.54	0.02	0.06	2.66	0.28	0.00	3.85	0.12	0.00	0.00	0.00	0.00	0.39	0.30	44.84	0.02	1.86	0.00	3.66						
4	24.40	0.00	0.00	2.29	4.65	4.74	0.00	0.00	0.08	11.44	1.19	19.00	0.53	0.52	2.93	0.00	0.05	1.37	0.00	0.00	0.00	0.00	0.00	0.28	0.65	23.47	0.00	1.45	0.02	2.12						
5	105.73	0.00	1.58	13.66	3.36	8.08	38.27	0.77	4.74	17.49	17.78	101.19	0.00	0.00	4.12	0.16	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.34	0.90	104.50	0.13	2.38	0.00	8.29						
6	25.80	0.64	0.00	0.32	6.24	1.44	0.32	0.00	0.08	6.25	10.52	20.21	0.00	0.00	2.11	0.10	0.00	3.31	0.07	0.00	0.00	0.00	0.00	0.17	0.04	25.59	0.02	2.11	0.00	8.43						
Total**	253.04	0.64	1.66	24.01	43.24	17.29	39.88	0.77	5.07	75.89	44.57	229.35	0.55	0.58	12.40	0.85	0.05	9.94	0.47	0.00	0.00	0.00	0.00	1.59	2.21	250.40	0.53	10.81	0.02	47.21						

Table 7. Baltimore County and City of Baltimore Shoreline Attributes - Shoreline Features - River Segment Summary

PLATE NUMBER	SEGMENT NAME	TOTAL MILES ASSESSED	SHORELINE FEATURES																	Miles of Phragmites australis	Miles of remote
			No. docks	No. dilapidated docks	No. boathouses	No. ramps private	No. ramps public	No. outfalls	No. groinfields	No. slips nc*	No. marinas <50 slips	No. marinas >50 slips	No. jetties	No. breakwaters	No. wharves	Miles of misc	Miles of bulkhead	Miles of dilapidated blkhd	Miles of riprap		
1	Bird River	12.98	214	9	6	20	0	5	4	1	0	0	0	0	0	0.35	3.51	0.09	0.66	0.36	0.00
2	Gunpowder River/Salt peter Creek/Seneca Creek	38.42	456	9	15	42	0	10	4	5	0	0	4	2	0	0.82	6.44	0.18	3.31	7.42	0.00
3	Middle River	45.59	1172	20	22	66	0	32	5	29	2	1	1	3	0	3.22	18.20	0.74	5.06	2.56	0.00
4	Back River	24.40	558	17	53	30	2	0	0	8	0	0	0	0	0	1.02	7.25	0.14	3.32	6.14	0.00
5	Patapsco River/Bear Creek	105.73	882	11	29	38	8	21	1	7	12	10	1	2	28	4.94	32.15	0.60	26.33	6.36	71.97
6	Hawk Cove/Chesapeake Bay	25.80	215	7	8	15	0	16	2	1	0	0	0	2	0	3.15	2.35	0.56	5.74	4.08	6.01
Total**		253.04	3497	73	133	211	10	84	16	51	14	11	6	9	28	13.49	69.90	2.30	44.41	26.92	78.10

\* nc (not counted) - boat slips in marinas not counted

\*\* Total Shoreline Miles 285.12 (Maryland DNR 1994)

Table 8. Baltimore County and City of Baltimore Shoreline Attributes - Phragmites and Survey Dates.

PLATE NUMBER	TOTAL MILES ASSESSED	MILES ASSESSED REMOTELY	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES ASSESSED	MILES ASSESSED REMOTELY	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES ASSESSED	MILES ASSESSED REMOTELY	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES ASSESSED	MILES ASSESSED REMOTELY	FIELD SURVEY DATES	PHRAGMITES (miles)
1	6.72	0.00	7/28/03	0.26	9	15.08	0.00	7/30, 8/12/03	0.31	17	4.15	0.00	8/13/03	0.35	25	7.07	7.07	PI	0.00
2	7.00	0.00	7/28/03	0.10	10	18.33	0.00	8/12-13/03	2.26	18	6.24	0.00	9/10/02, 8/13/03	1.67	26	9.65	9.65	PI	0.00
3	5.14	0.00	7/28-29/03	1.88	11	10.37	0.00	9/10/02, 8/13/03	3.50	19	10.85	9.34	8/13/03, PI*	0.00	27	12.65	12.65	PI	0.00
4	11.70	0.00	7/28-29/03	3.60	12	6.74	0.00	9/10/02	1.06	20	11.69	11.69	PI	0.00	28	8.95	8.95	PI	0.00
5	10.95	0.00	7/29/03	3.26	13	6.79	0.00	9/10/02	1.59	21	7.29	7.29	PI	0.00	29	3.50	3.50	PI	0.00
6	6.54	0.00	7/29/03	0.53	14	6.12	0.00	9/10/02	1.95	22	10.71	2.01	7/31, 8/13/03, PI	3.20	30	7.58	7.47	PI	0.00
7	13.56	0.00	7/29-30/03	0.86	15	2.16	0.00	9/10/02	0.30	23	15.46	0.00	7/31, 8/13/03	1.26	31	10.26	2.26	9/12/02, PI	1.29
8	15.76	0.00	7/30, 8/12/03	0.49	16	4.04	0.00	8/13/03	0.00	24	5.47	5.39	8/13/03, PI	0.09	32	6.59	0.00	9/12/02, PI	0.91

Total Shoreline Miles 285.12 (Maryland DNR 1994)

Total miles assessed = 253.04

Miles remotely assessed = 78.10

Total miles Phragmites australis = 26.92

PI = Photo interpreted