

APPENDIX C

Site Ranking Components and Derivation

Upper Patuxent River Watershed Restoration Action Strategy Site Ranking Derivation

		Ranking Components																																							Score				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
		Catchment															Site																												
		Impairment Type	Percent Impervious	Water Quality Volume	Recharge Volume	Predominant Land Use	Depth to Ground Water	Sanitary Sewer Type	Water Supply Type	Area Drainage by Storm Drain System	Percentage of Storm Drainage System that is Piped	Percentage of Open Channels that Are Not Concrete	Location of System In Catchment	Existing Treatment Type	Percent of Catchment Treated	Treatment Provided (WQv, Rev Cpv)	Site Ownership	Percent Impervious	Water Quality Volume	Recharge Volume	Storm Drainage Type	Type of Existing Treatment	Percent of Site Treated	Treatment Provided (WQv, Rev Cpv)	Pavement Type	Pavement Condition	Underdrains Could be Installed	Roof Connected to Storm Drain	Roof Drains Directly to Impervious Area	Drainage Problems	Steep Slopes Present	Existing Landscaping Present	Mature / Specimen Trees Present	Area Available for Aboveground BMPs	Existing Cover for Potential BMP Sites	Islands Present	Curb present Around Island	Ground Level of Island Relative to Pavement	Island Landscaping	Trees Have Sufficient Spacing to Allow IMPs	Area that Can Be Directed to Potential Treatment				
Site Name		5	1.5	2	2	1.5	1	0.1	0.1	0.1	1.5	1.5	0.1	3	3	3	2	1.5	2	2	1.5	3	3	3	1	0.5	1.5	1	1	1	1	0.5	1	5	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
		Weight																																							Raw	Weighting Applied			
1	29		0.6	0.3	0.3	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.7	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.1	0.3	0.5	0	0	0.3	0.1	0.4	0.6	0.3	0.5	0.3	0	0.4	0.3	0.8	14.10	25.33		
2	31		0.8	0.1	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.8	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.1	0.3	0.5	0	0	0.4	0.2	0.2	0.6	0.5	0.5	0.3	0	0.2	0.3	0.9	13.70	24.53		
3	32		0.8	0.2	0	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.8	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.2	0.4	0.2	0.2	0.2	0.5	0.5	0.3	0	0.2	0.3	0.5	13.40	22.38		
4	33		0.9	0.1	0.2	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.9	0.1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.2	0.3	0.2	0.2	0.2	0.3	0.5	0.3	0	0.2	0	0.8	13.30	22.73		
5	34		0.8	0.1	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.8	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.1	0.4	0.1	0.1	0.2	0.3	0.5	0.3	0	0	0	0.8	12.50	21.78		
6	35		0.6	0	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0	0.1	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.1	0.4	0.2	0.2	0.6	0.5	0.5	0.3	0	0	0	0.9	12.80	23.43		
7	36		0.1	0	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.33	0.4	0.5	0.5	0.1	0	0.1	0.5	0.3	0.4	0.5	0.5	0.1	0.3	0.5	0	0	0.4	0.3	0.3	0.2	0.8	0.5	0.3	0	0.4	0.3	0.3	11.23	17.82		
8	37		0.8	0.2	0.3	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.9	0.1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.1	0.3	0.2	0.2	0.4	0.4	0.5	0.3	0	0	0.3	0.7	13.60	23.88		
9	38		0.8	0.2	0.3	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.8	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.2	0.2	0.1	0.2	0.2	0.3	0.5	0.3	0	0.2	0	0.8	13.30	23.08		
10	41		0.9	0.1	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.9	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.1	0.3	0.5	0	0.1	0.2	0.2	0.1	0.2	0.5	0.5	0.3	0	0.2	0	0.2	12.30	21.08		
11	42		0.9	0.1	0.2	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.9	0.1	0.2	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.6	0	0.5	0.3	0	0.4	0.3	0.5	14.20	24.43		
12	43		0.8	0	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.3	0.2	0.5	0.5	0.8	0	0.1	0.5	0.3	0.2	0.5	0.5	0.3	0	0.5	0	0.2	0.3	0.2	0.3	0.2	0.2	0	0	0	0	0	0.7	10.40	17.48		
13	45		0.8	0.2	0.3	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0	0.1	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0	0.1	0.4	0.2	0.3	0.4	0.4	0.5	0.3	0	0	0.3	0.8	13.40	23.43		
14	46		0.8	0.2	0.3	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0	0.1	0.4	0.2	0.3	0.4	0	0.5	0.3	0	0	0.3	0.9	13.30	23.03		
15	48		0.9	0.1	0.1	0.5	0	0	0	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.9	0	0.1	0.5	0.5	0.5	0.5	0.5	0.2	0	0	0.3	0.1	0.4	0.2	0.3	0.2	0	0.5	0.3	0	0.4	0.3	0.9	13.00	21.63		

Upper Patuxent River Watershed Restoration Action Strategy Site Ranking Components

RANKING COMPONENTS		Low Score → Bad Candidate - Low Priority High Score → Good Candidate - High Priority
Catchment		Scoring
1	Basin Condition Score	0.0 - <150, 0.1 - 151-175, 0.2 - 176-200, 0.3 - 201-215, 0.4 - 216-230, 0.5 - 231-240, 0.6 - 241-250, 0.7 - 251-260, 0.8 - 261-270, 0.9 -271-280, 1.0 -281-290, 1.1 -291-300, 1.2 - >301
2	Catchment Percent Impervious	0.0 - 0-10, 0.1 - 11-20, 0.2 - 21-30, 0.3 - 31-40, 0.4 - 41-50, 0.5 - 51-60, 0.6 - 61-70, 0.7 - 71-80, 0.8 - 81-90, 0.9 - 91-100
3	WQ _v	0.0 - 0.00-0.10, 0.1 - 0.11-0.25, 0.2 - 0.25-0.50, 0.3 - 0.51-0.75, 0.4 - 0.76-1.00, 0.5 - >1.00
4	Re _v	0.0 - 0.000-0.010, 0.1 - 0.011-0.050, 0.2 - 0.051-0.100, 0.3 - 0.101-0.200, 0.4 - 0.201-0.500, 0.5 - >0.500
5	Predominant Land Use	0.0 - Forest, 0.1 - Meadow, Pasture, Open Space or Crop Land, 0.2 - Single Family (~12-38% impervious), 0.3 - Town Houses (~65% impervious), 0.4 - Industrial, school or apartments (~72% impervious), 0.5 - Commercial (~85% impervious)
6	Depth to Ground Water	0.0 - 0-1 ft, 0.1 - 1-2 ft, 0.2 - 2-3 ft, 0.3 - >3 ft
7	Sanitary System Type	0 - Sewered, 0.1 - Septic
8	Water Supply Type	0 - Public, 0.1 - Well
9	Area Drained by Storm Drain System	0.0 - 0-25, 0.1 - 26-50, 0.2 - 51-75, 0.3 - 76-100
10	Percentage of Storm Drain System that is Piped	0.0 - 0-25, 0.1 - 26-50, 0.2 - 51-75, 0.5 - 76-100
11	Percentage of Open Channels that is Not Concrete	0.0 - 76-100, 0.1 - 51-75, 0.2 - 26-50, 0.3 - 0-25, 0.4 - No Open Channels Exist
12	Location of System In Catchment	0.0 - No system, 0.1 - Lower portion only, 0.2 - Middle portion only, 0.3 - Lower and Middle portion only or Upper portion only, 0.4 - Lower and Upper portion only or Upper and Middle portion, 0.5 - All
13	Type of Existing Treatment	0.0 - SWM designed to 2000 Regulations or LID, 0.1 - Wet Pond, 0.3 - Dry Pond, 0.5 - No SWM
14	Percent of Catchment Treated	0.0 - 91-100, 0.1 - 76-90, 0.2 - 51-75, 0.3 - 26-50, 0.4 - 11-25, 0.5 - 0-10 or no treatment provided
15	Treatment Provided (WQ _v , Rev C _{pv})	0.0 - Treatment provided for all three, 0.1 - Treatment provided for two, 0.2 - Treatment provided for one, 0.5 - No treatment provided or unknown
Site		Scoring
16	Site Ownership	0.0 - Individual, 0.3 - Homeowner's Association, 0.4 - Residential Rental Property Owner, 0.5 - Commercial / Industrial Property Owner, 0.7 - Institutional, 1.0 - Government (including schools)
17	Site Percent Impervious	0.0 - 0-10, 0.1 - 11-20, 0.2 - 21-30, 0.3 - 31-40, 0.4 - 41-50, 0.5 - 51-60, 0.6 - 61-70, 0.7 - 71-80, 0.8 - 81-90, 0.9 - 91-100
18	WQ _v	0.0 - 0.00-0.10, 0.1 - 0.11-0.25, 0.2 - 0.25-0.50, 0.3 - 0.51-0.75, 0.4 - 0.76-1.00, 0.5 - >1.00
19	Re _v	0.0 - 0.000-0.010, 0.1 - 0.011-0.050, 0.2 - 0.051-0.100, 0.3 - 0.101-0.200, 0.4 - 0.201-0.500, 0.5 - >0.500
20	Storm Drainage Type	0.0 - 0-10% Piped, 0.1 - 11-25% Piped, 0.2 - 26-50% Piped, 0.3 - 51-75% Piped, 0.5 - 76-100% Piped
21	Type of Existing Treatment	0.0 - SWM designed to 2000 Regulations or LID, 0.1 - Wet Pond, 0.3 - Dry Pond, 0.5 - No SWM
22	Percent of Site Treated	0.0 - 91-100, 0.1 - 76-90, 0.2 - 51-75, 0.3 - 26-50, 0.4 - 11-25, 0.5 - 0-10 or no treatment provided
23	Treatment Provided (WQ _v , Rev C _{pv})	0.0 - Treatment provided for all three, 0.1 - Treatment provided for two, 0.2 - Treatment provided for one, 0.5 - No treatment provided or unknown
24	Type of Pavement	0.0 - None, 0.2 - Pervious, 0.5 - Impervious
25	Pavement Condition	0.0 - Excellent, 0.1 - Good, 0.2 - Average, 0.3 - Fair, 0.4 - Poor
26	Underdrains Could be Installed	0.0 - No, 0.3 - Yes
27	Roof Directly Connected to Storm Drain	0.0 - No, 0.5 - Yes
28	Roof Drains to Impervious Area	0.0 - No (or roof connected directly to storm drain), 0.3 - Yes
29	Drainage Problems	0.0 - None, 0.1 - Limited, 0.2 - Average, 0.3 - Moderate, 0.4 - Extensive
30	Steep Slopes Present	0.0 - Extensive, 0.1 - Moderate, 0.2 - Average, 0.3 - Limited, 0.4 - None
31	Existing Landscaping	0.0 - Extensive, 0.1 - Moderate, 0.2 - Average, 0.3 - Limited, 0.4 - None
32	Mature / Specimen Trees	0.0 - Extensive, 0.1 - Moderate, 0.2 - Average, 0.3 - Limited, 0.4 - None
33	Area Available for Aboveground BMPs	0.0 - None, 0.2 - Limited, 0.4 - Average, 0.6 - Moderate, 0.8 - Extensive
34	Existing Cover for Potential BMP Sites	0.0 - Pavement and Other Impervious, 0.2 - Landscaped, 0.4 - Gravel and Other Pervious, 0.8 - Grass (average if multiple cover is identified)
35	Islands Present	0.0 - No, 0.5 - Yes
36	Curb Present Around Island	0.0 - No, 0.3 - Yes
37	Ground Level of Island Relative to Pavement	0.0 - Above, 0.1 - Equal, 0.2 - Below
38	Island Landscaping	0.0 - Trees > 6 in. DBH, 0.2 - Trees 2-6 in. DBH, 0.4 - Trees < 2 in. DBH or No Trees Present
39	Trees Have Sufficient Spacing to Allow IMPs	0.0 - No, 0.3 - Yes or No Trees Present
40	Parking Area that Can Be Directed to Potential Treatment	0.0 - 0-10, 0.1 - 11-20, 0.2 - 21-30, 0.3 - 31-40, 0.4 - 41-50, 0.5 - 51-60, 0.6 - 61-70, 0.7 - 71-80, 0.8 - 81-90, 0.9 - 91-100