

TABLE 2 -EX. BMP Impervious Area Credit Calculation (Full WQv Vs. Partial WQv)

Storm ID	Structure Name	Watershed	Structure Type	Drainage Area (acres)	Impervious Area (acres)	Targeted WQ _v ¹ (ac-ft)	WQ _v Provided (ac-ft) Reported by Design Consultant	R _v ²	Impervious Credit Reported ³ (acres)
2830	SAYBROOKE/ SECTION III	02-13-09-02	ITCE	0.444	0.094	0.009	0.027	0.240	0.28
3083	SAYBROOKE/ SECTION III	02-13-09-02	ITCE	0.063	0.063	0.005	0.004	0.950	0.05
4369	BODKIN PLAINS/ LOT 249RA	02-13-09-02	ITCE	0.068	0.068	0.005	0.103	0.950	1.30
6010	Paradise Estates/ Lot 4	02-13-09-02	ESDRTD	0.172	0.172	0.014	0.011	0.950	0.14
6269	BODKIN POINT/ LOT 2/	02-13-09-02	BR	0.292	0.292	0.023	0.010	0.950	0.13
6699	Ventnor Property	02-13-09-02	ESDSFNAC	0.116	0.116	0.009	0.043	0.950	0.54
9819	1733 Bayside Beach Road	02-13-09-02	ESDRTD	0.114	0.114	0.009	0.008	0.950	0.10
9829	7810 Ducks Cove Road	02-13-09-02	BR	0.106	0.106	0.008	0.004	0.950	0.05
13254	402 Carvel Beach Rd	02-13-09-03	ESDRG	0.006	0.000	0.000	0.000	0.119	0.00
13286	1229 Kenwood Rd	02-13-09-03	ESDRG	0.006	0.006	0.000	0.002	0.950	0.03
13323	7790 East Shore Road	02-13-09-03	ESDIL	0.024	0.005	0.000	0.003	0.233	0.04
13409	637 Cyril Avenue	02-13-09-03	ESDPERMP	0.012	0.010	0.001	0.003	0.842	0.03
13410	322 Seward Ave	02-13-09-03	ESDRG	0.006	0.006	0.000	0.001	0.950	0.01
13488	7926 Solley Road	02-13-09-03	ESDIL	0.529	0.076	0.008	0.047	0.180	0.45
13497	Tanyard Spring, Sec C, Ph 1	02-13-09-03	SF	0.679	0.152	0.014	0.105	0.251	1.12
13498	Tanyard Springs	02-13-09-03	IB	9.137	4.937	0.408	0.420	0.536	5.08
13499	39 Cedar Ln	02-13-09-03	ESDDW	0.006	0.002	0.000	0.001	0.401	0.01
	406 TWIN RIDGE ADDITION	02-13-09-03	ITPE	3.959	1.145	0.102	0.032	0.310	0.36
1009	POINT PLEASANT INTERNATIONAL TRADE	02-13-09-03	ITPE	0.030	0.021	0.002	0.003	0.701	0.04
1745	CENTER LOTS 2/3/8 & 9 INTERNATIONAL TRADE	02-13-09-03	EDSD	5.792	3.846	0.313	0.160	0.648	1.97
1746	CENTER LOTS 2/3/8 & 9	02-13-09-03	EDSD	5.558	4.100	0.331	0.170	0.714	2.11
1814	ROYAL FARM STORE	02-13-09-03	EDSD	2.055	0.741	0.064	0.016	0.375	0.19
3023	WINDY KNOLLS WEST	02-13-09-03	ITCE	0.304	0.171	0.014	0.010	0.555	0.12
3411	WINDY KNOLLS WEST	02-13-09-03	ITCE	1.918	0.605	0.053	0.008	0.334	0.09
3719	WINDY KNOLLS WEST	02-13-09-03	ITCE	0.326	0.118	0.010	0.038	0.377	0.43
4469	PARADISE BEACH/ LOT 195R STERLING COLLISION	02-13-09-03	ITPE	0.006	0.006	0.000	0.003	0.950	0.04
4607	CENTER	02-13-09-03	ITCE	0.935	0.830	0.066	0.034	0.849	0.43
4767	MADISON PARK PH.2	02-13-09-03	IB	0.720	0.286	0.024	0.156	0.407	1.82

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5062 PASADENA CAR WASH	02-13-09-03	EDSD	1.027	0.833	0.067	0.054	0.780	0.67
6463 BROOKSTONE	02-13-09-03	BR	1.506	0.655	0.055	0.136	0.441	1.61
6630 Chase Wood Run/ Lot 2 Glen Burnie Convenience	02-13-09-03	IT	0.006	0.006	0.000	0.019	0.950	0.24
6719 Center	02-13-09-03	SF	1.680	1.079	0.088	0.139	0.628	1.71
7216 Wendy's at Marley Station	02-13-09-03	SF	0.741	0.337	0.028	0.036	0.459	0.43
7583 Greenhaven, Lots 1-5 & 9 Elvaton Heights-Foxwell,	02-13-09-03	IT	0.676	0.341	0.028	0.044	0.504	0.53
7847 Lots 32 & 33 Elvaton Heights-Foxwell,	02-13-09-03	IT	0.964	0.240	0.022	0.012	0.274	0.13
7848 Lots 32 & 33	02-13-09-03	IT	0.371	0.141	0.012	0.010	0.392	0.12
7873 Howard Trust	02-13-09-03	BR	1.686	0.824	0.069	0.150	0.490	1.80
7993 Bar Harbor, Lots 1-3	02-13-09-03	BR	4.051	1.039	0.095	0.016	0.281	0.17
7994 Bar Harbor, Lots 1-3	02-13-09-03	BR	0.708	0.400	0.033	0.024	0.559	0.29
8117 Picnics by Gerard North County HS,	02-13-09-03	IT	0.863	0.151	0.015	0.014	0.207	0.14
8566 Gymnasium Ferndale School, Early	02-13-09-03	BR	2.433	1.214	0.101	0.152	0.499	1.82
8577 Childhood Center	02-13-09-03	BR	0.984	0.350	0.030	0.038	0.371	0.44
8681 7 Queen Anne Road	02-13-09-03	IT	0.006	0.006	0.000	0.002	0.917	0.03
8758 239 Wanda Road	02-13-09-03	DW	0.006	0.006	0.000	0.009	0.950	0.11
9013 Quarterfield 100	02-13-09-03	IT	0.206	0.068	0.006	0.480	0.347	5.48
9014 Quarterfield 100	02-13-09-03	BR	0.372	0.219	0.018	0.041	0.579	0.50
9015 Quarterfield 100	02-13-09-03	BR	0.526	0.442	0.035	0.031	0.806	0.39
9016 Quarterfield 100	02-13-09-03	SW	1.543	0.885	0.073	0.034	0.566	0.41
9041 442 Carvel Beach Road	02-13-09-03	IT	0.006	0.005	0.000	0.005	0.885	0.06
9124 825 Duvall Highway Tanyard Springs, Section C,	02-13-09-03	IT	0.077	0.014	0.001	0.012	0.216	0.13
9340 Phase 1 Tanyard Springs, Section C,	02-13-09-03	IB	0.765	0.002	0.003	1.133	0.052	0.67
9342 Phase 3	02-13-09-03	SW	0.501	0.078	0.008	0.011	0.190	0.11
9442 174 Carroll Road	02-13-09-03	IT	0.203	0.057	0.005	0.004	0.304	0.05
9482 2421 Mountain Road Old Mill High School	02-13-09-03	IT	0.218	0.012	0.002	0.042	0.100	0.28
9631 Concession Stand	02-13-09-03	IT	0.570	0.145	0.013	0.005	0.278	0.05
9780 600 Willowdale Ct	02-13-09-03	SF	1.334	0.310	0.029	0.027	0.259	0.29
9908 772 20th Street	02-13-09-03	BR	0.006	0.006	0.000	0.002	0.926	0.02

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9989 Oak Heights, Birch Ave	02-13-09-03	IT	0.006	0.006	0.000	0.004	0.950	0.04
10230 H. A. Wagner Power Plant	02-13-09-03	SW	1.157	0.715	0.058	0.037	0.606	0.45
10979 8200 West End Drive	02-13-09-03	DW	0.006	0.006	0.000	0.001	0.925	0.01
11204 702 Kearneys Lane	02-13-09-03	IT	0.006	0.005	0.000	0.011	0.797	0.14
11554 334 Bar Harbor Road	02-13-09-03	DW	0.006	0.005	0.000	0.001	0.770	0.02
12528 1570 Annapolis Drive	02-13-09-03	ESDRG	0.006	0.002	0.000	0.001	0.439	0.02
12529 1570 Annapolis Drive	02-13-09-03	ESDRG	0.006	0.006	0.000	0.002	0.950	0.03
12530 1570 Annapolis Drive	02-13-09-03	ESDRG	0.006	0.006	0.000	0.002	0.950	0.03
12772 1305 Second Ave	02-13-09-03	ESDIL	0.246	0.005	0.001	0.003	0.067	0.01
6151 BWI TECHNOLOGY PARK	02-13-09-06	EDSD	18.184	15.351	1.227	1.070	0.810	13.39
7882 Staybridge Suites Townes Place Suites at BWI,	02-13-09-06	UGS	0.704	0.565	0.045	0.244	0.773	3.04
8064 LOt 8 BWI, Sheraton & Weston	02-13-09-06	SF	0.270	0.021	0.003	0.109	0.121	0.85
8269 Motels BWI, Sheraton & Westin	02-13-09-06	IT	4.399	2.618	0.215	0.293	0.586	3.57
8270 Motels Arundel Overlook Business	02-13-09-06	IT	4.220	3.073	0.248	0.367	0.705	4.55
8663 Park, Lot 1 Arundel Overlook Businedd	02-13-09-06	SF	4.808	2.630	0.217	0.601	0.542	7.28
8664 Park, Lot 1 Arundel Mills, Darden	02-13-09-06	SF	0.275	0.202	0.016	0.530	0.711	6.57
11487 Resturants Inc Arundel Mills, Darden	02-13-09-06	ESDMB	0.288	0.087	0.008	0.160	0.321	1.80
11488 Resturants Inc Arundel Mills, Darden	02-13-09-06	ESDMB	1.755	0.162	0.019	0.160	0.133	1.33
11489 Resturants Inc Arundel Mills, Darden	02-13-09-06	ESDMB	0.545	0.228	0.019	0.160	0.427	1.88
11491 Resturants Inc Arundel Mills, Darden	02-13-09-06	ESDMB	0.016	0.016	0.001	0.160	0.950	2.02
11492 Resturants Inc	02-13-09-06	ESDMB	0.062	0.057	0.005	0.160	0.888	2.01
13404 Bay Head Park	02-13-10-01	BR	0.831	0.027	0.005	0.035	0.079	0.17
13408 606 Riverside Drive	02-13-10-01	FPU	1.371	0.289	0.027	0.004	0.240	0.04
13420 223 Ambleside Dr	02-13-10-01	ESDPERMP	0.291	0.041	0.004	0.019	0.176	0.18
13431 1054 Trails End Road	02-13-10-01	ESDSGW	0.439	0.179	0.015	0.009	0.416	0.10
13434 1257 Magothy Road	02-13-10-01	FPU	0.073	0.026	0.002	0.010	0.370	0.11
13467 1729 Grandview Road	02-13-10-01	ITWQE	0.102	0.102	0.008	0.003	0.950	0.04

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390 ARNOLD PET STATION SHORE ACRES/ BURNETT	02-13-10-01	EDSD	0.724	0.314	0.027	0.146	0.441	1.72
4376 AVE. ANNE ARUNDEL COMMUNITY COLLEGE	02-13-10-01	ITCE	0.154	0.154	0.012	0.011	0.950	0.14
4827 GYMNASIUM RENOVATIO	02-13-10-01	ITWQE	0.170	0.170	0.013	0.005	0.950	0.06
5691 Harris Property/ Lot 5	02-13-10-01	IT	0.111	0.111	0.009	0.002	0.950	0.02
5903 BRANDI KNOLL/ LOTS 1-9	02-13-10-01	ITPE	9.212	1.732	0.168	0.037	0.219	0.38
6088 CRESTON PARK/ LOT 1 Magothy Park Beach/ Lots	02-13-10-01	ITCE	0.092	0.092	0.007	0.006	0.950	0.08
6677 347 Ulmstead Estates/ Lot 26/	02-13-10-01	IT	0.094	0.094	0.007	0.005	0.950	0.07
6960 Sec 5	02-13-10-01	IT	0.130	0.130	0.010	0.012	0.950	0.15
7283 Sheridan Road, Lots 36-39	02-13-10-01	UGS	0.453	0.159	0.014	0.002	0.365	0.02
7389 Mill Creek Road, Lot 56-57	02-13-10-01	IT	0.091	0.091	0.007	0.006	0.950	0.08
7444 Twin Harbors, Lot 77	02-13-10-01	ESDSFNAC	0.111	0.111	0.009	0.008	0.950	0.10
7683 Shore Acres, Lot 197 Jones Station Fire	02-13-10-01	IT	1.318	0.105	0.013	0.018	0.121	0.14
7751 Detartment	02-13-10-01	BR	0.125	0.093	0.008	0.024	0.725	0.29
7775 Cattail Passage	02-13-10-01	SW	0.092	0.056	0.005	0.009	0.600	0.12
7776 Cattail Passage	02-13-10-01	IT	0.270	0.094	0.008	0.007	0.361	0.08
7777 Cattail Passage	02-13-10-01	ESD	1.398	0.441	0.039	0.022	0.334	0.25
7950 Shore Acres, Parcel 41	02-13-10-01	ESD	0.219	0.219	0.017	0.003	0.950	0.03
8009 Athey Property, Lot 2R Mount Carmmel United	02-13-10-01	ITWQE	0.238	0.238	0.019	0.035	0.950	0.44
8112 Methodist Church Mount Carmmel United	02-13-10-01	BR	0.628	0.339	0.028	0.018	0.536	0.21
8113 Methodist Church Mount Carmmel United	02-13-10-01	BR	0.556	0.227	0.019	0.015	0.416	0.18
8114 Methodist Church Severn School, Gym	02-13-10-01	IT	0.727	0.692	0.055	0.885	0.906	11.14
8589 Addition	02-13-10-01	IT	1.070	0.178	0.018	0.033	0.199	0.33
8632 21 Nicholson Dr	02-13-10-01	IT	3.442	1.133	0.099	0.007	0.346	0.08
8863 Park Meadows Court	02-13-10-01	IT	0.049	0.049	0.004	0.013	0.950	0.17
8865 Park Meadows Court	02-13-10-01	IT	0.054	0.054	0.004	0.007	0.950	0.09
8866 Park Meadows Court	02-13-10-01	IT	0.051	0.051	0.004	0.006	0.950	0.08

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8867 Park Meadows Court Broadwater Way, Blair	02-13-10-01	IT	0.052	0.052	0.004	0.006	0.950	0.07
8877 Property	02-13-10-01	IT	0.130	0.130	0.010	0.015	0.950	0.20
8946 1226 Jones Station Road	02-13-10-01	IT	0.146	0.146	0.012	0.016	0.950	0.20
9280 1402 Cape St Claire Road	02-13-10-01	IT	0.071	0.071	0.006	0.011	0.950	0.14
9367 366 Eagle Hill Road	02-13-10-01	ESD	0.296	0.296	0.023	0.116	0.950	1.47
9412 1167 Summit Dr	02-13-10-01	IT	0.047	0.047	0.004	0.005	0.950	0.06
9532 807 Pasadena Road	02-13-10-01	DW	0.201	0.201	0.016	0.047	0.950	0.60
9536 416 Asbury Dr 8365 Baltimore Annapolis	02-13-10-01	ESDRTD	0.140	0.140	0.011	0.032	0.950	0.40
9830 Blvd	02-13-10-01	BR	0.162	0.162	0.013	0.417	0.950	5.26
9891 Sabrina Lane	02-13-10-01	SW	0.058	0.058	0.005	0.086	0.950	1.09
9892 Sabrina Lane	02-13-10-01	SW	0.045	0.045	0.004	0.049	0.950	0.62
9893 Sabrina Lane	02-13-10-01	SW	0.409	0.161	0.014	0.100	0.404	1.17
9894 Sabrina Lane	02-13-10-01	SW	1.923	0.831	0.070	0.052	0.439	0.61
9895 Sabrina Lane	02-13-10-01	SW	0.059	0.059	0.005	0.012	0.950	0.15
9921 1017 Magothy Ave	02-13-10-01	ESDRTD	0.035	0.035	0.003	0.001	0.950	0.01
9931 Elvaton Park office Building	02-13-10-01	BR	1.473	1.011	0.082	0.150	0.668	1.85
9944 1150 River Bay Road	02-13-10-01	ESDRTD	0.120	0.120	0.010	0.010	0.950	0.13
10046 Wallgreens, Severna Park	02-13-10-01	IT	0.554	0.554	0.044	0.010	0.950	0.13
10047 Wallgreens, Severna Park	02-13-10-01	IT	0.320	0.320	0.025	0.001	0.950	0.01
10286 819 Riverside Drive	02-13-10-01	IT	0.254	0.254	0.020	0.012	0.950	0.15
10969 200 11th Street	02-13-10-01	ESDRG	0.062	0.062	0.005	0.004	0.950	0.05
11006 8264 Warterford Road	02-13-10-01	DW	0.042	0.042	0.003	0.013	0.950	0.16
11552 8310 Sycamore Road	02-13-10-01	ESDRG	0.040	0.040	0.003	0.007	0.950	0.09
11729 1084 River Bay Road	02-13-10-01	ESDRTD	0.153	0.153	0.012	0.007	0.950	0.09
St John the Evangilest								
11999 Church & School Additions	02-13-10-01	IT	1.405	0.802	0.066	0.046	0.564	0.56
12507 694 White Swan Drive	02-13-10-01	ESDDW	0.071	0.071	0.006	0.001	0.950	0.02
12508 694 White Swan Drive	02-13-10-01	ESDDW	0.077	0.077	0.006	0.007	0.950	0.08
12509 694 White Swan Drive	02-13-10-01	ESDDW	0.090	0.090	0.007	0.004	0.950	0.05
12594 1053 St Margarets Drive	02-13-10-01	ESDRG	0.062	0.001	0.000	0.007	0.064	0.02
BRISTOL HILLS AT HERALD								
19 HARBOR	02-13-10-02	WP	3.481	0.812	0.075	0.095	0.260	1.02

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NAPORA MINOR 402 SUBDIVISION	02-13-10-02	EDSW	0.344	0.110	0.010	0.120	0.337	1.36
HOLY TEMPLE CHURCH OF 1083 ANNAPOLIS	02-13-10-02	EDSW	1.773	0.252	0.026	0.130	0.178	1.25
NAPORA MINOR 1272 SUBDIVISION	02-13-10-02	EDSW	0.102	0.025	0.002	0.018	0.268	0.20
2851 MANRESA ASSISTED LIVING ODENTON ELEMENTARY	02-13-10-02	ITWQE	0.261	0.218	0.017	0.009	0.804	0.11
2894 SCHOOL	02-13-10-02	ITPE	51.355	19.625	1.686	0.248	0.394	2.89
3063 MANRESA ASSISTED LIVING ODENTON COMMUTER RAIL	02-13-10-02	ITWQE	0.136	0.116	0.009	0.006	0.817	0.07
4443 STATION WOODS THE/ LOT-1	02-13-10-02	IB	10.597	3.906	0.337	0.088	0.382	1.02
4592 RESUB.OR REV.LOT-13 HERALD HARBOR LOTS 27-	02-13-10-02	ITCE	0.076	0.075	0.006	0.018	0.946	0.23
5009 32 ONE SEVENTY EIGHT SELF	02-13-10-02	ITCE	0.045	0.044	0.004	0.030	0.929	0.37
5718 STORAGE Beechwood on the Burley/	02-13-10-02	IB	4.801	1.661	0.145	0.201	0.361	2.30
6031 Lot 74 Cranberry Woods/ R.L.	02-13-10-02	IT	0.051	0.050	0.004	0.007	0.940	0.09
6064 Howard	02-13-10-02	IT	0.083	0.082	0.007	0.027	0.940	0.34
6380 PARISH HOUSE PROPERTY	02-13-10-02	ITCE	2.100	0.411	0.040	0.025	0.226	0.26
6709 Williams Woods	02-13-10-02	IT	17.712	5.987	0.523	0.478	0.354	5.47
6853 Nantucket on the Severn	02-13-10-02	SF	0.323	0.118	0.010	0.011	0.377	0.13
6854 Nantucket on the Severn	02-13-10-02	SF	0.511	0.161	0.014	0.012	0.334	0.14
6855 Nantucket on the Severn	02-13-10-02	SF	1.593	0.263	0.026	0.011	0.198	0.11
6856 Nantucket on the Severn	02-13-10-02	IT	0.373	0.166	0.014	0.022	0.451	0.26
6857 Nantucket on the Severn	02-13-10-02	SF	0.096	0.002	0.001	0.004	0.073	0.02
6858 Nantucket on the Severn	02-13-10-02	SF	1.477	0.190	0.020	0.033	0.166	0.31
6859 Nantucket on the Severn	02-13-10-02	SW	0.145	0.016	0.002	0.020	0.151	0.17
6860 Nantucket on the Severn	02-13-10-02	SW	0.064	0.010	0.001	0.012	0.184	0.11
7114 Zients Property, Bl 7, Par 80	02-13-10-02	IT	1.280	0.492	0.042	0.044	0.396	0.51
9320 Arundel HS, Science Building	02-13-10-02	SF	7.695	5.538	0.447	0.186	0.698	2.30

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9567 Oppertunity Builders	02-13-10-02	WP	5.199	0.862	0.086	1.430	0.199	14.28
9579 Sullivans Retreat	02-13-10-02	IT	0.742	0.288	0.025	0.012	0.400	0.14
9580 Sullivans Retreat	02-13-10-02	IT	1.848	0.496	0.045	0.012	0.292	0.13
Chesapeake Montessori								
10209 School	02-13-10-02	IT	0.702	0.218	0.019	0.048	0.329	0.54
10250 Catholic Charities Odenton II	02-13-10-02	BR	0.326	0.271	0.022	0.029	0.796	0.36
10251 Catholic Charities Odenton II	02-13-10-02	BR	0.130	0.058	0.005	0.029	0.453	0.34
10252 Catholic Charities Odenton II	02-13-10-02	BR	2.314	0.943	0.080	0.029	0.417	0.34
11515 672 Old Herald harbor Road	02-13-10-02	SW	7.333	0.796	0.090	0.034	0.148	0.30
12189 Wallgreens Store 12559	02-13-10-02	SF	0.572	0.132	0.012	0.054	0.257	0.58
13259 238 Cape St John Road	02-13-10-03	ESD	0.170	0.037	0.003	0.002	0.243	0.02
13271 160 Shore Dr	02-13-10-03	ESDIL	0.017	0.011	0.001	0.007	0.638	0.08
13356 3979 Bayside Drive	02-13-10-03	ESDRG	0.036	0.024	0.002	0.006	0.633	0.07
13370 1161 Goldfinch Lane	02-13-10-03	ESDMB	0.122	0.011	0.001	0.007	0.129	0.05
TROPIC BAY WATER								
5482 GARDENS	02-13-10-03	ITPE	1.450	0.329	0.031	0.018	0.254	0.19
SOUTH ANNAPOLIS FOREST								
5932 DRIVE HOME DEPOT	02-13-10-03	ITCE	6.731	6.372	0.506	0.014	0.902	0.18
6447 BARKDOLL/LOT 4	02-13-10-03	ITCE	0.012	0.004	0.000	0.013	0.392	0.15
6456 POPLAR POINT LOT26	02-13-10-03	ITCE	0.118	0.009	0.001	0.004	0.118	0.03
7335 DiPietro Property	02-13-10-03	IT	0.158	0.052	0.005	0.005	0.348	0.06
7351 Idlewild Farms, Lot 7	02-13-10-03	IT	0.241	0.027	0.003	0.011	0.152	0.10
Selby on the Bay, Lots 10 &								
7736 11	02-13-10-03	SF	0.087	0.046	0.004	0.003	0.519	0.04
Annapolis Neck Library,								
8199 Parking Lot Expsns	02-13-10-03	SF	0.699	0.203	0.018	0.106	0.312	1.19
Annapolis Town Center at								
8470 Parole Infrastructure	02-13-10-03	SF	0.939	0.175	0.017	0.285	0.218	2.93
Annapolis Town Center at								
8471 Parole Infrastructure	02-13-10-03	SF	2.382	2.204	0.175	0.015	0.883	0.18
Annapolis Town Center at								
8475 Parole Infrastructure	02-13-10-03	SF	0.229	0.178	0.014	0.018	0.748	0.23
8500 Hillsmere Estates, Lot 15	02-13-10-03	ESDRTD	0.006	0.003	0.000	0.004	0.549	0.05

TABLE 2 -EX. BMP Impervious Area Credit Calculation (Full WQv Vs. Partial WQv)

8615 957 Melvin Road	02-13-10-03	IT	0.060	0.019	0.002	0.009	0.342	0.10
8616 957 Melvin Road	02-13-10-03	IT	0.028	0.003	0.000	0.005	0.135	0.05
8771 Hambleton Estates, Lot 12	02-13-10-03	IT	0.096	0.065	0.005	0.009	0.661	0.11
8806 23 Elm Road	02-13-10-03	SF	0.079	0.056	0.005	0.002	0.692	0.02
9020 110 Poplar Road	02-13-10-03	Redevelopm	0.016	0.016	0.001	0.002	0.928	0.02
1211 Tilghmans Landing								
9026 Way	02-13-10-03	ESD	0.026	0.025	0.002	0.021	0.894	0.27
9157 1005 Shepherd Court	02-13-10-03	DW	0.013	0.013	0.001	0.000	0.950	0.00
9330 Conte Annex Building, Lot 2	02-13-10-03	BR	1.044	0.919	0.073	0.073	0.842	0.91
9331 Conte Annex Building, Lot 2	02-13-10-03	ITPE	1.316	1.154	0.092	0.073	0.839	0.91
9337 Falls Grove at Riva Trace	02-13-10-03	SF	0.651	0.402	0.033	0.113	0.606	1.38
9461 3204 Dillon Dr	02-13-10-03	DW	0.006	0.005	0.000	0.015	0.867	0.18
9462 3204 Dillon Dr	02-13-10-03	IT	0.051	0.028	0.002	0.001	0.541	0.01
9467 132 Island View Drive	02-13-10-03	BR	0.094	0.024	0.002	0.005	0.283	0.05
496 Ferry Point Road,								
9748 Arbutis Banks	02-13-10-03	BR	0.251	0.024	0.003	0.045	0.138	0.39
496 Ferry Point Road,								
9749 Arbutis Banks	02-13-10-03	BR	0.035	0.003	0.000	0.004	0.122	0.03
496 Ferry Point Road,								
9752 Arbutis Banks	02-13-10-03	ESDNRTD	0.239	0.140	0.012	0.105	0.579	1.28
9896 Friends Road, Lot 15	02-13-10-03	IT	0.061	0.036	0.003	0.005	0.586	0.06
10184 1723 Oldtown Road	02-13-10-03	DW	0.006	0.006	0.000	0.002	0.950	0.02
3244-B Arundel on the Bay								
10202 Road	02-13-10-03	ESDRTD	0.145	0.001	0.001	0.012	0.055	0.01
10217 1345 Rossback Road	02-13-10-03	ESD	0.129	0.053	0.004	0.144	0.419	1.69
10255 579 Coover Road	02-13-10-03	ESDRTD	0.124	0.065	0.005	0.098	0.522	1.19
11393 118 Mayo Road	02-13-10-03	BR	0.187	0.173	0.014	0.003	0.880	0.04
11730 204 Allensway Drive	02-13-10-03	ESDRTD	0.055	0.046	0.004	0.024	0.800	0.29
740 South River Landing								
12114 Road	02-13-10-03	ESDRH	0.006	0.005	0.000	0.006	0.871	0.07
12157 3355 Oak Dr	02-13-10-03	ESDRG	0.649	0.203	0.018	0.009	0.332	0.10
12158 3355 Oak Dr	02-13-10-03	ESDRG	0.059	0.018	0.002	0.004	0.330	0.05
12495 332 Salisbury Road	02-13-10-03	ESDRH	0.006	0.005	0.000	0.006	0.896	0.08
12593 1602 Knoxville Road	02-13-10-03	ITWQE	0.063	0.030	0.003	0.004	0.484	0.04
13445 1414 E Central Ave	02-13-10-04	ESDRG	0.159	0.006	0.001	0.004	0.083	0.02

TABLE 2 -EX. BMP Impervious Area Credit Calculation (Full WQv Vs. Partial WQv)

5937 SCHUELKE PROPERTY	02-13-10-04	SW	0.157	0.018	0.002	0.005	0.153	0.04
10042 Heron Cove, Infrastructure	02-13-10-04	WP	11.157	2.329	0.221	0.108	0.238	1.14
10043 Heron Cove, Infrastructure	02-13-10-04	WP	3.083	0.853	0.077	0.207	0.299	2.29
13118 3939 Shore Drive	02-13-10-04	FPU	0.024	0.013	0.001	0.010	0.556	0.12
JONES PROPERTY/ FRANKLIN								
993 GIBSON RD	02-13-10-05	ITCE	1.077	0.434	0.037	0.021	0.412	0.25
3535 TRACEYS CREEK	02-13-10-05	ITCE	10.870	0.932	0.115	0.019	0.127	0.15
WILKERSON/HUGH								
5768 W.PROPERTY/LOT-4	02-13-11-02	ITCE	0.065	0.037	0.003	0.005	0.564	0.06
7038 Burton Property, Lot 3	02-13-11-02	ESDSFNAC	0.075	0.001	0.000	0.010	0.059	0.02
Tracy's Landing Elementary								
8379 School	02-13-11-02	BR	1.084	0.867	0.070	0.144	0.770	1.79
BROCKBRIDGE								
TOWNHOUSES REINSTATED								
6353 BY PAC	02-13-11-04	EDSD	0.824	0.197	0.018	0.066	0.265	0.71
Lopez Property, Bl 12, Par								
7642 173	02-13-11-04	SW	0.171	0.037	0.003	0.052	0.245	0.55
Courts of Crofton Pond								
13405 Retrofit	02-13-11-05	MP	15.227	6.516	0.552	0.500	0.435	5.90
846 SETON WOODS	02-13-11-05	WP	27.239	5.697	0.541	1.700	0.238	17.91
James Residence/ Lots 42 &								
6026 48	02-13-11-05	IT	0.166	0.048	0.004	0.055	0.310	0.62
6903 Hopkins Plaza	02-13-11-05	IT	0.201	0.193	0.015	0.048	0.915	0.61
6904 Hopkins Plaza	02-13-11-05	BR	1.079	0.411	0.035	0.028	0.393	0.32
6905 Hopkins Plaza	02-13-11-05	BR	0.246	0.193	0.016	0.005	0.756	0.07
6906 Hopkins Plaza	02-13-11-05	BR	0.291	0.238	0.019	0.011	0.784	0.13
ANNAPOLIS JUNCTION								
2596 TRANSFER STATION	02-13-11-05	WP	5.280	0.140	0.033	13.900	0.074	59.96
9715 2681 Evergreen Ave	02-13-11-05	IT	0.023	0.015	0.001	0.007	0.647	0.09
Total								263.0

$${}^1 WQ_v = [(P)(R_v)(A)]/12$$

P = rainfall depth in inches and is equal to 1.0"

R_v = volumetric runoff coefficient

A = drainage area in acres

$${}^2 R_v = 0.05 + 0.009 \times [(\text{Impervious Area}/\text{Drainage Area}) \times 100] \quad {}^3 \text{ Impervious Credit Reported} = (\text{WQv Provided}/\text{Targeted WQv}) \times \text{Impervious Area}$$

Table 3- Water Quality Projects Pre February 2014 Impervious Credit Calculation

Structure Name	Watershed	Structure Type	Length of Restoration (ft)	Impervious Acre Equilivent¹ (acres)	Equilivent Impervious Credit Reported² (acres)
Camp Woodlands Living Shoreline	02-13-10-03	SHST	540	0.04	21.60
Cabin Branch SPSC Outfall Retrofit	02-13-10-02	STRE	600	0.01	6.00
Cabin Branch Sand Seepage Wetland	02-13-10-02	STRE	900	0.01	9.00
Crofton Storage-Mart Coastal Plain Outfall	02-13-11-05	STRE	200	0.01	2.00
Homestead Gardens SPSC	02-13-10-03	STRE	350	0.01	3.50
Davidsonville Wildlife Sanctuary Wetland SPSC	02-13-10-03	STRE	300	0.01	3.00
Camp Letts SPSC	02-13-10-04	STRE	250	0.01	2.50
Saefern Outfall Stabilization Phase II	02-13-10-02	STRE	275	0.01	2.75
Arundel on the Bay Living Shoreline	02-13-10-02	SHST	200	0.04	8.00
Crofton Tributary Restoration Phase II	02-13-11-05	STRE	1800	0.01	18.00
Crofton Tributary Restoration Phase I	02-13-11-05	STRE	1494	0.01	14.94
Massing Residential Living Shoreline	02-13-10-03	SHST	200	0.04	8.00
South River Farm Park Living Shoreline	02-13-10-03	SHST	600	0.04	24.00
Homeport Farms Experimental Living Shoreline	02-13-10-03	SHST	200	0.04	8.00
Homeport Farms SPSC	02-13-10-03	STRE	250	0.01	2.50
Lionsgate Stream Stabilization	02-13-11-05	STRE	200	0.01	2.00
Dulls Corner Stream Restoration	02-13-10-02	STRE	2200	0.01	22.00
Gray's Creek Bog	02-13-10-01	STRE	1100	0.01	11.00
Harundel SWM Facility	02-13-09-03	STRE	1000	0.01	10.00
Aurora Hills SWM Rehabilitation 1	02-13-10-02	STRE	360	0.01	3.60
Aurora Hills SWM Rehabilitation 2	02-13-10-02	STRE	250	0.01	2.50
Aurora Hills SWM Rehabilitation 3	02-13-10-02	STRE	750	0.01	7.50
Brockbridge Elem. Stream Restoration	02-13-11-04	STRE	950	0.01	9.50
Marley Station Wetland	02-13-09-03	STRE	500	0.01	5.00
Riva Annapolis Stormdrain & Outfall Rehabilitation	02-13-10-03	STRE	375	0.01	3.75
Sloop, Eli, & Long Coves Retrofits, Site 2	02-13-09-03	STRE	275	0.01	2.75
Riverdale Outfall Rehabilitation	02-13-10-01	STRE	285	0.01	2.85

Table 3- Water Quality Projects Pre February 2014 Impervious Credit Calculation

Cypress Creek Retrofit	02-13-10-01	STRE	3000	0.01	30.00
Ruppert Ravine Phase 2	02-13-11-05	STRE	900	0.01	9.00
North Carolina @ Severn Rd. Storm Drain Outfall.	02-13-10-01	STRE	175	0.01	1.75
Wells Branch @ Aurora Hills	02-13-10-02	STRE	546	0.01	5.46
Four Seasons Stream Rehabilitation	02-13-11-05	STRE	2016	0.01	20.16
Western Tributary Stream Restoration	02-13-10-03	STRE	1000	0.01	10.00
Broadneck Rd. Stream Repair	02-13-10-01	STRE	475	0.01	4.75
Sunnyfield Outfall Restoration	02-13-09-03	STRE	275	0.01	2.75
Whitehall Creek Stream Rehabilitation	02-13-10-01	STRE	950	0.01	9.50
Windsor Ridge Stream Stabilization	02-13-10-01	STRE	450	0.01	4.50
Beacrane Road Bog Rehab.	02-13-10-01	STRE	500	0.01	5.00
Wilelinor SWM Rehabilitation	02-13-10-03	STRE	1050	0.01	10.50
Central Sanitation Facility Stream Restoration	02-13-10-02	STRE	2000	0.01	20.00
Church Creek Stream Restoration	02-13-10-03	STRE	2000	0.01	20.00
Fairoaks Outfall Retrofit	02-13-10-01	STRE	375	0.01	3.75
Severn Drive Stormdrain and Outfall Improvement	02-13-10-02	STRE	200	0.01	2.00
Saefern Outfall Stabilization	02-13-10-02	STRE	200	0.01	2.00
National Business Park Downstream Mitigation 324	02-13-11-05	STRE	1000	0.01	10.00
Severnview Drive Outfall Restoration	02-13-10-02	STRE	185	0.01	1.85
Leelyn Drive SWM Retrofit	02-13-10-01	STRE	1250	0.01	12.50
Severn Run Stream Stabilization	02-13-10-02	STRE	639	0.01	6.39
Picture Spring Branch Stream Stabilization	02-13-11-05	STRE	500	0.01	5.00
Science Drive In-Stream Riffle	02-13-09-06	STRE	650	0.01	6.50
Shady Cove Natural Area Wetland	02-13-10-04	STRE	1050	0.01	10.50
Hammarlee Road SPSC	02-13-09-03	STRE	400	0.01	4.00
602 Hammonds Lane SPSC	02-13-09-06	STRE	100	0.01	1.00
Buena Vista Outfall	02-13-10-01	STRE	560	0.01	5.60
Millersville Elementary SPSC	02-13-10-02	STRE	300	0.01	3.00
Ben Oaks Shoreline Restoration	02-13-10-02	SHST	200	0.04	8.00
Fairoaks Outfall Retrofit Phase II	02-13-10-01	STRE	300	0.01	3.00
Carriage Hills Outfall Stabilization & Stream Res	02-13-10-02	STRE	600	0.01	6.00
Total					460.7

¹ Based on published MDE Guidance "Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated" August 2014

² Equilivent Impervious Credit Reported = Length of Restoration x Impervious Acre Equilivent

Table 4- Water Quality projects Post February 2014 Impervious Credit Calculation

Structure ID	Structure Name	Watershed	Structure Type	Drainage Area (acres)	Impervious Area (acres)	Comment	Targeted WQ _v ¹ (ac-ft)	WQ _v Provided by Retrofit (ac-ft) Reported by Design Consultant	R _v ²	Impervious Credit Reported ³ (acres)
AA002478	BRITTINGHAM/ SECTION 3	02-13-10-01	PWET	17.188	4.422	Longfellow Drive Pond Retrofit	0.403	0.170	0.282	1.86
AA000024	BRITTINGHAM II	02-13-10-01	PWET	7.254	2.636	Copperwood Ct Pond Retrofit	0.228	0.100	0.377	1.16
AA004022	EARLEIGH HEIGHTS ROAD	02-13-10-01	PWET	9.018	4.103	Sylvan Ave Pond Retrofit	0.345	0.170	0.460	2.02
AA000045	KILMARNOCK WOODS	02-13-10-01	PWET	33.780	7.549	Lahinch Ct SWM Pond Retrofit	0.707	0.210	0.251	2.24
AA000013	BERRYWOOD ACRES	02-13-10-01	PWET	25.019	5.187	Tarks Land Pond Retrofit	0.493	0.310	0.237	3.26
AA000652	COLLINGTON OFF JONES STATION	02-13-10-01	PWET	28.995	5.445	Collington Court Pond Retrofit	0.529	0.230	0.219	2.37
AA000819	MANSION HOUSE MANOR	02-13-10-01	PWET	6.199	2.614	Mayfield Rd and Gladnor Rd Pond Retrofit	0.222	0.270	0.429	3.18
AA000887	WOODBIDGE FOREST	02-13-10-01	PWET	34.292	4.699	Amesbury Ct. Pond Retrofit	0.495	0.270	0.173	2.56
Total										18.7

¹ WQ_v = [(P)(R_v)(A)]/12

P = rainfall depth in inches and is equal to 1.0"

R_v = volumetric runoff coefficient

A = drainage area in acres

² R_v = 0.05 + 0.009 x [(Impervious Area/Drainage Area) x 100]

³ Impervious Credit Reported = (WQ_v Provided/Targeted WQ_v) x Impervious Area

Structure Name	Watershed	Structure Type	Length of Restoration (ft)	Impervious Acre Equivalent ¹ (acres)	Equivalent Impervious Credit Reported ² (acres)
Forest Drive Stream Restoration	02-13-10-01	STRE	500	0.01	5.00
Haskill Drive Stream Restoration	02-13-10-02	STRE	500	0.01	5.00
Total					10.0

¹ Based on published MDE Guidance "Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated" August 2014

² Equivalent Impervious Credit Reported = Length of Restoration x Impervious Acre Equivalent

Structure Name	Watershed	Structure Type	Length of Restoration (ft)	Impervious Acre Equilivent ¹ (acres)
Forest Drive Stream Restoration	02-13-10-01	STRE	500	0.01
Haskill Drive Stream Restoration	02-13-10-02	STRE	500	0.01
Total				

¹ Based on published MDE Guidance "Accounting for Stormwater Wasteload Allocations and Impervious Acres"

² Equilivent Impervious Credit Reported = Length of Restoration x Impervious Acre Equilivent

**Equivalent
Impervious
Credit
Reported ²
(acres)
5.00
5.00
10.0**

Treated" August 2014