

Water Quality Volume (WQv) Calculations

Project: Regatta View - Area B - Phase 3

Date: 5/19/2016

ENVIRONMENTAL
DESIGN
PARTNERSHIP, LLP
900 Route 146
Clifton Park, New York
12065
Phone:(518) 371-7621
FAX:(518) 371-9540

Total Site Area = 6.695 acres
 Impervious 1.882 acres
 28.1 %
 Rv = 0.303

P = 1.1 in
 Water Quality 8100 cf

Drainage area	Area (ac)	I (AC)	I (%)	Rv	WQv (cu-ft)
B1	0.11	0.06	54.55	0.54	238
B2	0.12	0.08	62.50	0.61	293
B3	0.10	0.06	57.00	0.56	225
B4	0.09	0.05	55.56	0.55	198
B5	0.10	0.06	57.89	0.57	217
B6	0.10	0.05	52.63	0.52	199
B7	0.14	0.09	60.71	0.60	333
B8	0.10	0.05	50.00	0.50	200
B9	0.10	0.06	55.00	0.55	218
B10	0.09	0.06	66.67	0.65	234
B11	0.12	0.08	62.50	0.61	293
B12	0.11	0.06	54.55	0.54	238
B13	0.14	0.10	74.07	0.72	386
B14	1.68	0.30	17.86	0.21	1414
B15	3.26	0.40	12.27	0.16	2088
Driveways	0.35	0.35	100.00	0.95	1328
Totals	6.70	1.88			8100

Runoff Reduction Volume (RRv) Calculations

Project: Regatta View - Area B - Phase 3

Date: 5/19/2016

ENVIRONMENTAL
DESIGN
PARTNERSHIP,
LLP
900 Route 146
Clifton Park, New
York 12065
Phone:(518) 371-
7621
FAX:(518) 371-9540

Minimum Reduction

1.88	0.55	1.04	0.95	0.05	1963
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Green Infrastructure

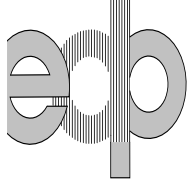
Porous Pavement

I.D.	Contributing Area (ac)	% I	Rv	WQv (cf)	Surface Area (sf)	Porosity	Recharge layer depth (ft)	Count	Provided WQv (cf)	Total WQv Reduction (cf)
Single	0.011	100	0.95	39.8	460	0.4	1.5	12	276	478
Shared	0.037	100	0.95	140.4	1600	0.4	1.5	6	960	842

Disconnection of Rooftop Runoff

I.D.	Contributing WQv (cf)	WQv Reduction (cf)
	3502	3502

Min. RRv Required **1,963** **cf**
RRv Provided from Green Infrastructure **4822** **cf**



ENVIRONMENTAL
SIGN
PARTNERSHIP, LLP
200 Route 146
Hightstown Park, New York
08520
Phone: (518) 371-7621
Fax: (518) 371-9540

Runoff Reduction Volume (RRv) Calculations

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Stormwater Management Practices

Bioretention Areas

I.D.	WQv Provided (cf)	% Reduction	Max Reduction (cf) (Contributing WQv)	Reduction (cf)
SMA#1	1,116	100	238	238
SMA#2	1,116	100	293	293
SMA#3	1,116	100	225	225
SMA#4	1,116	100	198	198
SMA#5	1,116	100	217	217
SMA#6	1,116	100	199	199
SMA#7	1,116	100	333	333
SMA#8	535	100	200	200
SMA#9	616	100	218	218
SMA#10	519	100	234	234
SMA#11	535	100	293	293
SMA#12	535	100	238	238
SMA#13	1,058	100	386	386

Reduction from Standard SMPs = **3,270** cf
Total Overall RRv = **8,092** cf