

Table S1. Validation of WinSLAMM Porous Concrete Pavement (PCP) Model with 4 rainfall events

Date	Rainfall Depth (mm)	Observed Volume Reduction (m ³ /m ²)	Model Predicted Volume Reduction (m ³ /m ²)	% Error	Comments
11/11/2014	45.2	0.0956	0.1216	21.39	Over-predicting
11/13/2014	1.3	0.0041	0.0058	29.91	Over-predicting
11/23/2014	1.5	0.0049	0.0066	25.84	Over-predicting
12/5/2014	1.5	0.0050	0.0066	24.26	Over-predicting

Table S2. Validation of WinSLAMM Bioretention (BR) Model with 14 rainfall events

Date	Rainfall Depth (mm)	Observed Volume Reduction (m ³ /m ²)	Model Predicted Volume Reduction (m ³ /m ²)	% Error	Comments
4/10/2015	47	0.8717	0.9795	11	Over-predicting
4/12/2015	18	0.3292	0.4168	21	Over-predicting
4/13/2015	19	0.3549	0.4493	21	Over-predicting
5/12/2015	10	0.1821	0.2429	25	Over-predicting
5/29/2015	8	0.1410	0.1905	26	Over-predicting
8/20/2015	56	1.0434	1.1220	7	Over-predicting
9/11/2015	37	0.6890	0.8011	14	Over-predicting
9/12/2015	11	0.2064	0.2716	24	Over-predicting
9/15/2015	9	0.1604	0.2139	25	Over-predicting
9/16/2015	23	0.4284	0.5289	19	Over-predicting
9/25/2015	15	0.2735	0.3506	22	Over-predicting
9/26/2015	14	0.2571	0.3339	23	Over-predicting
1/2/2016	15	0.2822	0.3618	22	Over-predicting
5/31/2016	50	0.8545	1.0173	16	Over-predicting

Table S3. Validation of WinSLAMM Bioswale (BS) Model with 4 rainfall events

Date	Rainfall Depth (mm)	Observed Volume Reduction (m ³ /m ²)	Model Predicted Volume Reduction (m ³ /m ²)	% Error	Comments
8/13/2014	2	0.017	0.016	6	Under- Predicting
11/13/2014	1	0.012	0.012	0	Over- Predicting
12/7/2014	18	0.186	0.155	20	Under- Predicting
3/9/2015	5	0.058	0.049	19	Under- Predicting

Table S4. Results of Pearson Multiple Correlation Analysis

	Footprint	Peak Discharge	% Runoff Reduction	Runoff Coeff.	Storage Capacity
Footprint	1.000	-	-	-	-
Peak Discharge	0.014	1.000	-	-	-
% Runoff Reduction	-0.016	-0.996	1.000	-	-
Runoff Coeff.	0.016	0.996	-1.000	1.000	
Storage Capacity	-0.331	-0.120	0.137	-0.137	1.000