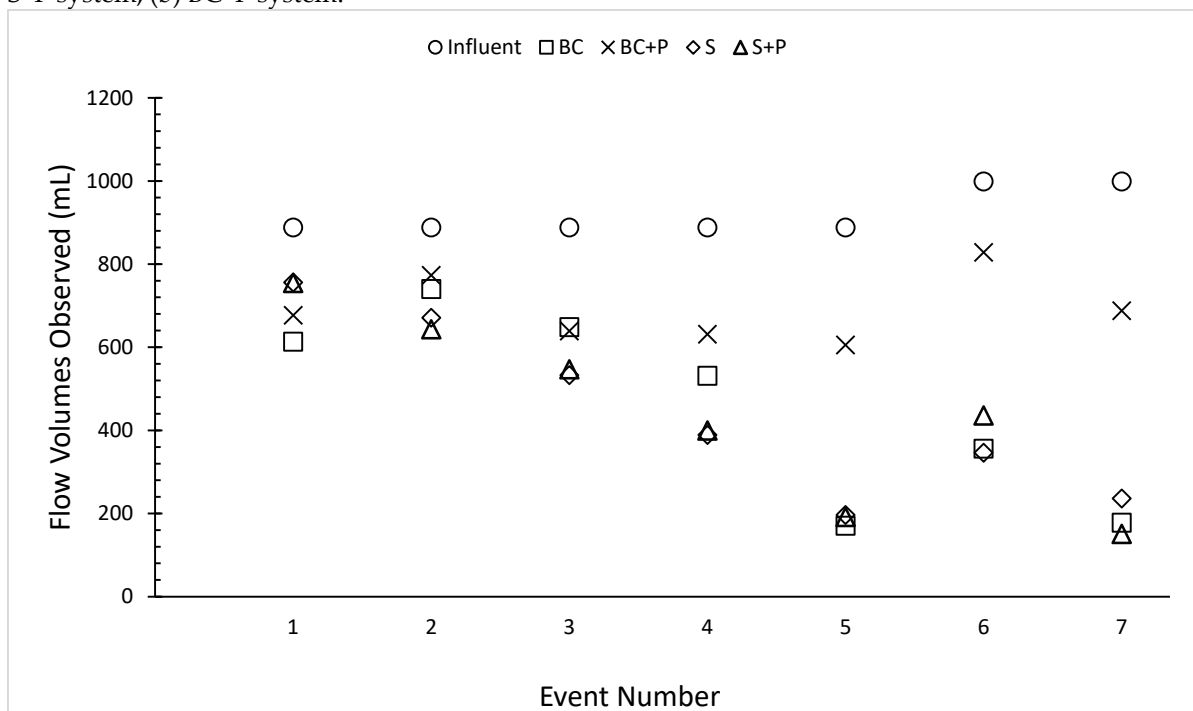
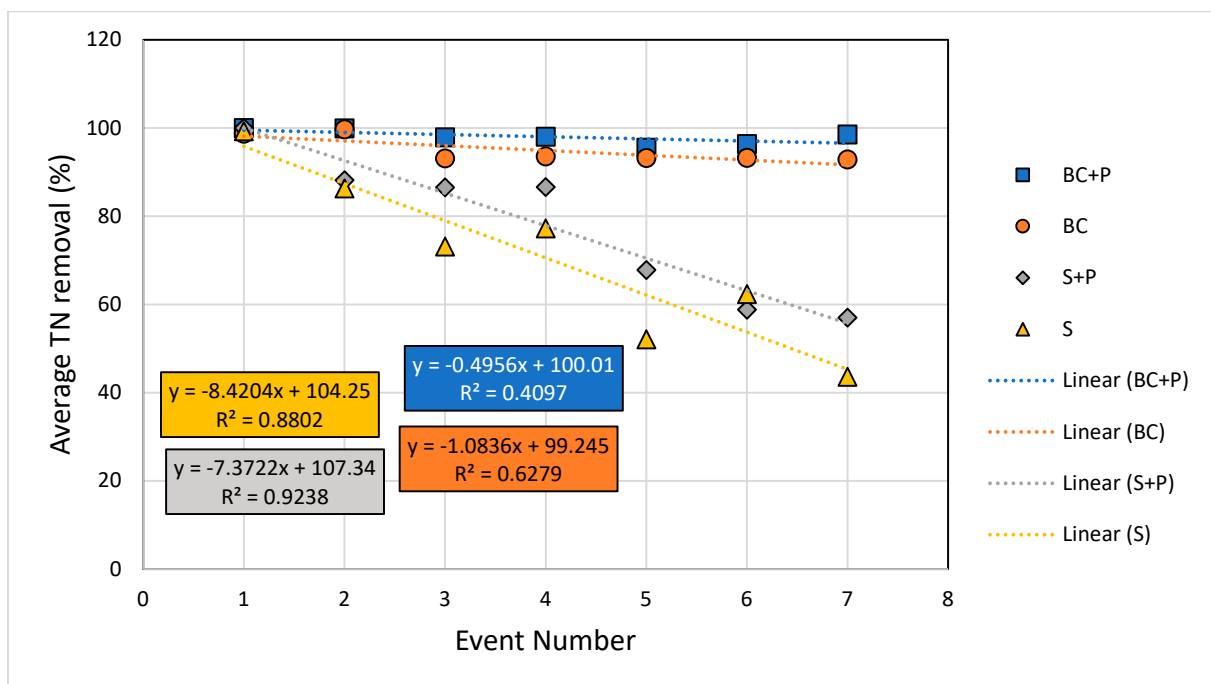


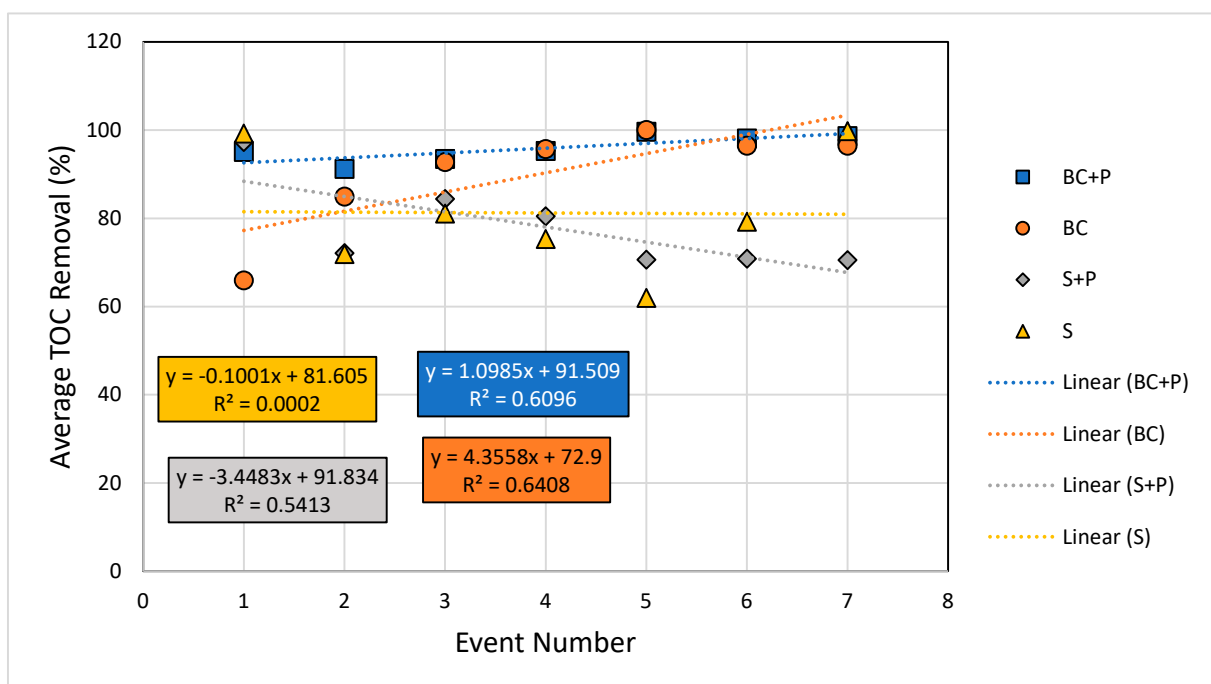
**Figure S1.** Photographs of planted pilot-scale bioretention systems after twelve runoff experiments: (a) S+P system; (b) BC+P system.



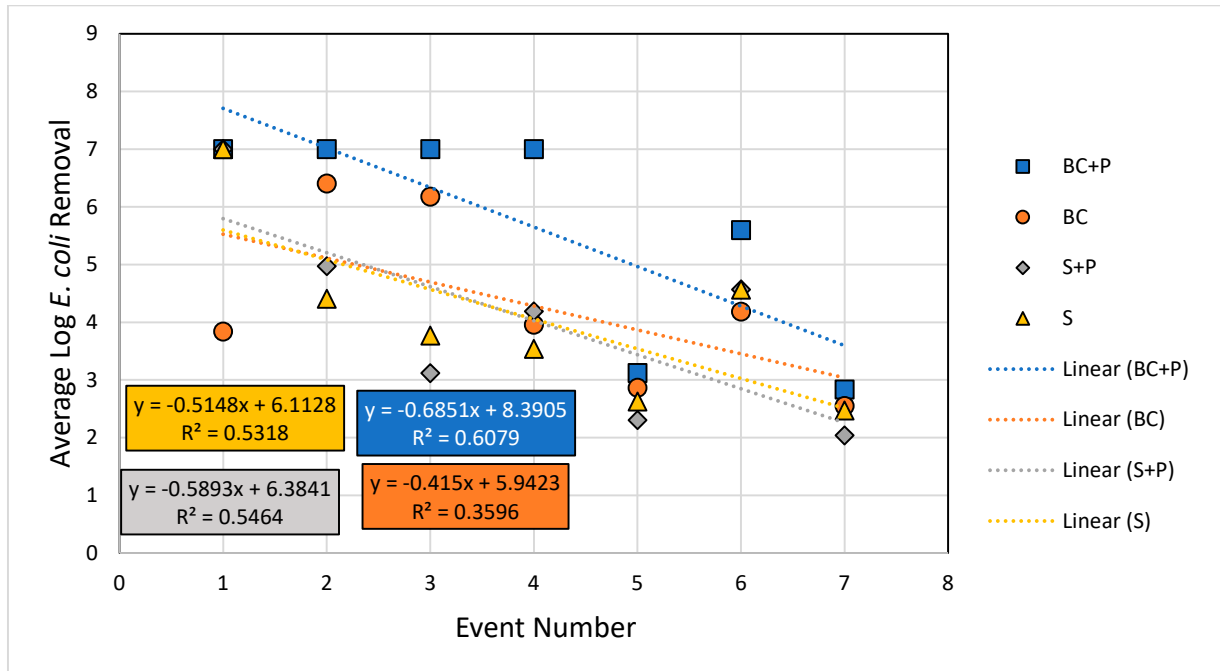
**Figure S2.** Effluent flow volumes for each event.



**Figure S3.** Regression analysis of average TN removal vs. runoff event.



**Figure S4.** Regression analysis of average TOC removal vs. runoff event.



**Figure S5.** Regression analysis of average *log E. coli* removal vs. runoff event.

**Table S1.** List of abbreviations.

Acronym	Definition
ADP	Antecedent Dry Period
CEC	Cation Exchange Capacity
CAFO	Concentrated Animal Feeding Operation
DON	Dissolved Organic Nitrogen
FIB	Fecal Indicator Bacteria
HLR	Hydraulic Loading Rate
IWSZ	Internal Water Storage Zone
NBS	Nature Based Solution
PV	Pore Volume
SA	Surface Area
TN	Total Nitrogen
TOC	Total Organic Carbon