

Biofiltration Media Optimization

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- 14 simulated “design-storm” (i.e., 1.1-inch equivalent) events in 2019
 - 11 natural rainfall events in 2019



ST. ANTHONY FALLS LABORATORY

<http://stormwater.safl.umn.edu/>



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Phosphate Results

Compared to the Tank Inflow concentration (~250 ug/L phosphate):

- Some **increase** phosphate:
 - 10% food compost,
 - 10% leaf compost,
 - 20% food compost,
 - 20% leaf compost,
 - 15% biochar w/ 20% leaf compost,
 - 5% spent lime w/ 20% leaf compost
- Some **reduce** phosphate:
 - 5% iron w/ 20% leaf compost,
 - 20% reed sedge peat
 - 20% sphagnum peat
- 100% Sand ~ Minimal Change

