

Biochar

**STORMWATER
TREATMENT
FILTRATION
SYSTEMS**

48S TOTE



Stormwater
BIOCHAR.com

INDUSTRIAL
**STORMWATER
TREATMENT**



407 Gallon Totes

External Dimensions:
48 1/8" (L) x 48 1/8" (W)
x 52 1/2" (H)

Internal Dimension:
44 7/8" (L) x 44 7/8" (W)
x 46 1/2" (H)

Available With or Without Lid

Recommended to Use Either Filter Media:

BiocharPEAT
Stormwater Treatment Filtration Media

BiocharZAPT
Stormwater Treatment Filtration Media

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503-789-6760

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**info@
Stormwater
BIOCHAR**.com

Simple · Proven · Effective

THE RIGHT **BIOCHAR**,
THE RIGHT **BLEND**, DIALED IN.



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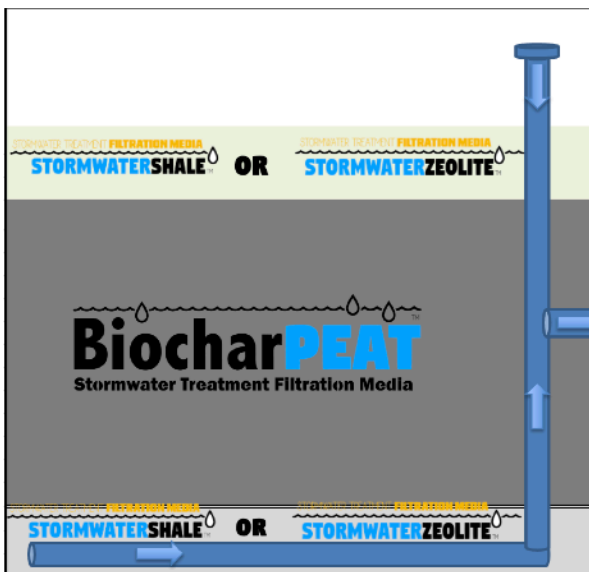
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Over Flow Pipe can be either on the outside or inside of the tote.

Water will remain from the bottom of the height of the discharge pipe. A small drip valve/hose is put in at the bottom to slowly release the standing water.

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- FDA-approved materials
- Nonporous surfaces
- Rounded corners and smooth surfaces
- Easy-to-sanitize
- Splinter-resistant plastic
- Cold Storage 0° F to 35° F
- Injection-molded, high-impact resistant copolymer

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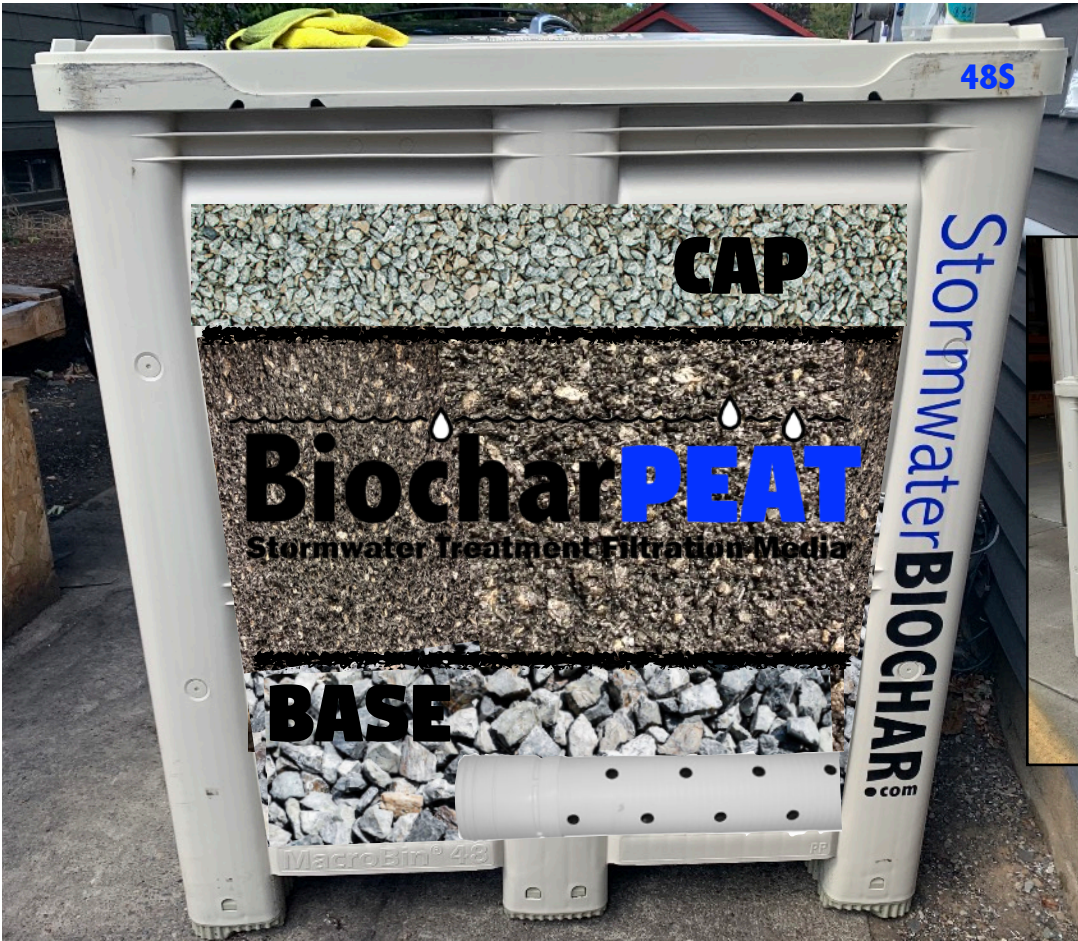
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Basic Loading of the 48S. (Not to scale) 1" in height = ~1.17 cf

~5 cf of **STORMWATERSHALE™** OR **STORMWATERZEOLITE™** (~5") Cap,
~1.25 CY of **BiocharPEAT™** (~30") and
~5 cf of **STORMWATERSHALE™** OR **STORMWATERZEOLITE™** (~5") Base



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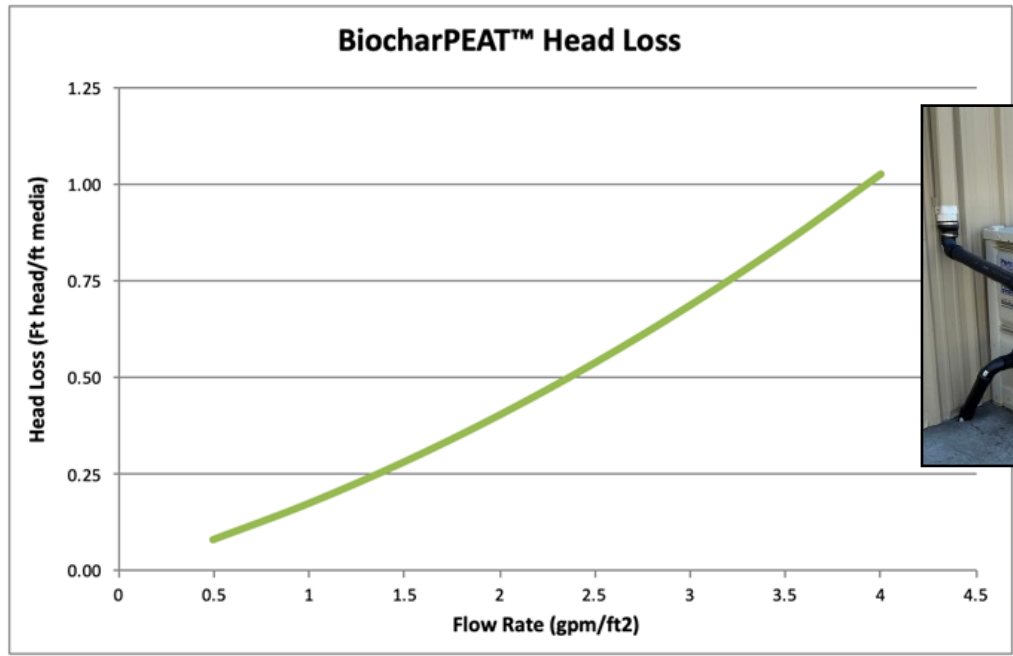
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Flow Rate

If we use the 1.8 in/min rate from the OSU study, it's about 18 gpm.

If we use the range of 1 to 4 gpm/sf, which varies based on the head pressure (depth of ponding) over the media ranging from 0.2 to 1 ft head/ft media from the chart below, it's somewhere between 16 and 64 gpm. I definitely wouldn't use anything close to 64 gpm, as we can't achieve that much ponding in a tote (nor would we want to from a pollutant removal efficiency standpoint). I think the OSU study took into account pollutant removal when they selected 1.8 in/min, so I'd assume 18 gpm is a good average estimate.

			Tote Filtration Rate (gpm)
4.0 ft	4.0 ft	16.0 sf	18.0
1.8 in/min			16.0
1 gpm/sf			64.0
4 gpm/sf			



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