



BiocharPEAT™

Stormwater Treatment Filtration Media

BiocharPEAT™ Stormwater Treatment Media is a blend of StormwaterBIOCHAR™, StormwaterPEAT™ and StormwaterSHALE™. **BiocharPEAT™** is designed to be an affordable, natural solution that is highly adaptable to how it's deployed to fit each site uniquely.

StormwaterBIOCHAR™ has shown to adsorb both organic pollutants and heavy/trace metals within its porous structure. In addition, the presence of oxygen rich organic compounds on the StormwaterBIOCHAR™ surfaces adds substantial cation exchange capacity which aids in the capturing of trace contaminants such as Zinc, Copper, Lead and Aluminum.

The capacity and mechanisms of sorption by StormwaterPEAT™ has been widely recognized. Because of the geochemical environment of deposition, StormwaterPEAT™ naturally tends to reject innocuous metals such as calcium and magnesium while attracting and bonding with more toxic metals such as lead and cadmium.

StormwaterSHALE™ is an activated ceramic filtering media is the environmentally friendly option for cleaning water and stormwater. Removes TSS, Metals, Phosphorus, Grease, & Oils.

BiocharPEAT™ Performance:

- Lasts on average two plus years
- Can Remove Phosphorus, Metals, Turbidity
- Hydraulic conductivity, allows fast, free drainage
- Employs ion exchange to enhance treatment process
- All Organic Ingredients

BiocharPEAT™ Available in:

- Bulk Super Sack (One Cubic Yard)
- Bulk one and a half cubic foot bags
- Pure Rain™ Filtration Bags
- Stormwater Catch Basin Inserts
- Pure Rain™ Filtration Systems

The Right **Biochar**, The Right **Blend**, Dialed In.

StormwaterBIOCHAR.com

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Metal Removal Solutions

 AMERICAN MADE

BiocharPEAT™

Stormwater Treatment Filtration Media



Simple • Proven • Effective

Date of Test	Pollutant Tested	PBE Treatment	Unit of Measure	PBT Treatment	Unit of Measure	% Change	Amount of Media	24 hr. Run Event at Test	Other Site Information
5/2/18	#2 Diesel	1.4	mg/L	0.55	mg/L	60.7%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
5/10/18	#2 Diesel	1.8	mg/L	0.75	mg/L	58.3%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/18	#2 Diesel	3.1	mg/L	1.6	mg/L	48.4%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/19	#2 Diesel	2.1	mg/L	1	mg/L	52.4%	1 CY	Average after 80,190 Gallons Treated	Transportation Yard / Road Surface Runoff / <i>Passive</i>
1/29/20	5-Day BOD	64	mg/L	19	mg/L	70%	3/4 CY		Roof & Surface Runoff / <i>Passive</i>
2/6/20	5-Day BOD	25	mg/L	5	mg/L	80%	3/4 CY	Results after 238,507 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/13/20	5-Day BOD	609	mg/L	168	mg/L	72%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
3/8/18	Cadmium	0.55	µg/L	ND	µg/L	99.8%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/8/18	Chromium	3.5	µg/L	1.1	µg/L	69%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Copper	16.2	µg/L	7.91	µg/L	51%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Copper	16.2	µg/L	7.91	µg/L	51%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/8/18	Copper	14	µg/L	3.3	µg/L	76%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/22/18	Copper	7.5	µg/L	2.6	µg/L	65%	1.5 CY	0.34"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
5/2/18	Copper	9.6	µg/L	9.3	µg/L	3.1%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/18	Copper	12	µg/L	8.6	µg/L	28.3%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/19	Copper	39.8	µg/L	3.7	µg/L	91%	3/4 CY	Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
1/15/20	Copper	216	µg/L	10	µg/L	95.4%	1 CY	after 2 yrs	Roof & Surface Runoff / <i>Passive</i>
2/13/20	Copper	32.8	µg/L	14.9	µg/L	55%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/28/18	Iron	1110	µg/L	509	µg/L	54%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Iron	1110	µg/L	509	µg/L	54%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Lead	22.3	µg/L	7.34	µg/L	67%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Lead	22.3	µg/L	7.34	µg/L	67%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/8/18	Lead	17	µg/L	0.5	µg/L	97%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
5/2/18	Motor Oil	2.5	mg/L	0.85	mg/L	66.0%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
5/10/18	Motor Oil	2.4	mg/L	1.2	mg/L	50.0%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/18	Motor Oil	4.4	mg/L	2.2	mg/L	50.0%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/19	Motor Oil	3.1	mg/L	1.4	mg/L	54.8%	1 CY	Average after 80,190 Gallons Treated	Transportation Yard / Road Surface Runoff / <i>Passive</i>
3/8/18	Nickel	3.1	µg/L	2.4	µg/L	23%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/13/20	Total Nitrate/Nitrite	520	mg/L	30	mg/L	94%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
1/29/20	Total Phosphorus	2.54	mg/L	1.06	mg/L	58%	3/4 CY		Roof & Surface Runoff / <i>Passive</i>
2/6/20	Total Phosphorus	1.3	mg/L	0.261	mg/L	80%	3/4 CY	Results after 238,507 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/13/20	Total Phosphorus	14.7	mg/L	4.43	mg/L	70%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
1/15/20	TSS	404	NTU	5	NTU	98.8%	1 CY	after 2 yrs	Roof & Surface Runoff / <i>Passive</i>
5/2/18	Turbidity	210	NTU	48	NTU	77.1%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/18	Turbidity	20	NTU	10	NTU	50.0%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
1/29/20	Turbidity	500	NTU	100	NTU	80%	3/4 CY		Roof & Surface Runoff / <i>Passive</i>
2/6/20	Turbidity	500	NTU	45	NTU	91%	3/4 CY	Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/13/20	Turbidity	160	NTU	80	NTU	50%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/28/18	Zinc	8780	µg/L	263	µg/L	97%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
2/28/18	Zinc	8780	µg/L	263	µg/L	97%	1 CY	0.22"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/8/18	Zinc	5700	µg/L	16	µg/L	99.7%	1 CY	0.42"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
3/22/18	Zinc	2700	µg/L	20	µg/L	99.3%	1.5 CY	0.34"	Steel Fabricator / Roadway Runoff / DIY Baffle Box <i>Max</i>
5/2/18	Zinc	210	µg/L	48	µg/L	77.1%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
5/10/18	Zinc	270	µg/L	120	µg/L	55.6%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/18	Zinc	370	µg/L	52	µg/L	85.9%	1 CY		Transportation Yard / Road Surface Runoff / <i>Passive</i>
6/13/19	Zinc	283.3	µg/L	73.3	µg/L	74.1%	1 CY	Gallons Treated	Transportation Yard / Road Surface Runoff / <i>Passive</i>
1/15/20	Zinc	400	µg/L	91	µg/L	77.3%	1 CY	after 2 yrs	Roof & Surface Runoff / <i>Passive</i>
1/29/20	Zinc	122	µg/L	74	µg/L	39%	3/4 CY		Roof & Surface Runoff / <i>Passive</i>
2/6/20	Zinc	533	µg/L	47.2	µg/L	91%	3/4 CY	Gallons Treated	Roof & Surface Runoff / <i>Passive</i>
2/13/20	Zinc	627	µg/L	276	µg/L	56%	3/4 CY	Results after 283,471 Gallons Treated	Roof & Surface Runoff / <i>Passive</i>

Stormwater **BIOCHAR**.COM

STORMWATER TREATMENT

MEDIAS:

BiocharBASIC
Stormwater Treatment Filtration Media

BiocharPEAT
Stormwater Treatment Filtration Media

SYSTEMS:

Pure Rain
STORMWATER TREATMENT

FILTER SOCKS

STORMWATER TREATMENT

CATCH BASIN
Inserts

Pure Rain
STORMWATER TREATMENT
FILTRATION SYSTEMS

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Stormwater **BIOCHAR**.COM
Biochar for stormwater treatment since 2010

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