

**Table XXX. Results for Subset of BSM Specification Metrics**

Media Component or Blend	Cation Exchange Capacity (meq/100g)	Anion Exchange Capacity (meq/100g)	Polycyclic Aromatic Hydrocarbons (µg/L)	Water Holding Capacity (bars of atmosphere)	Electric Conductivity (mmhos/cm)	Organic Matter (% by weight)
Criteria	≥4	no criteria	no criteria	no criteria	<4mmhos/cm	4-6%
Coir	1510	102	na	na	0.3	na
High carbon wood ash (biochar)	451	na	Non-detect	na	na	na
Iron aggregate	62.6	15.0	na	na	na	na
Activated alumina	603	85.7	na	na	na	na
Primary media blend	na	na	na	0.33 bars = 6.2 15 bars = 5.3	na	4.5
Polishing layer	130	27.3	na	na	na	na

Cation exchange capacity: EPA 9081. Anion exchange capacity: EPA 9081 modified (nitrate as the target ion). Meq = milliequivalent.

Water holding capacity: saturated sample in closed chamber, apply 0.33 atmosphere (5 psi), and then 15 atmospheres (220 psi) to ceramic plate.

Electric conductivity: TMECC 04.10-A (mmhos/cm = milli mho/cm, Mho = reciprocal of ohm).

PAH: EPA 8270D.

Organic matter: ASTM D2974 or TMECC 05.07A.