

Table 3

Characteristics of Three Biochars Utilized

	Biochar # 1 Bruce's char	Biochar #2 George's char	Biochar #3 Chip Energy char
Characteristics	Low (400C) temperature, multi-purpose, backyard energy & char production process	Moderate (500C) temperature, double barrel, backyard production process	High temperature, byproduct of industrial energy production project
Feedstock	70 – 80% hardwood shavings & sawdust	Hardwood pallets charred & chipped	Commercial hardwood pellets
Adsorption Capacity	1.50%	1.30%	2.18%
Adsorption Capacity of various commercial lump cooking charcoals			
	High	moderate	low
Comparisons	5 - 8% (ex. Montana & Cowboy charcoal)	1.5 – 2.0% (ex. Average commercial charcoal)	1.0 - 2.0% (ex. Low cost charcoal with fuel starting additives)

*. These measurements were provided by Hugh McLaughlin based on the methodology described in the paper “**All Biochars are Not Created Equal, and How to Tell Them Apart**” by Hugh McLaughlin, PhD, PE, Paul S. Anderson, PhD, Frank E. Shields and Thomas B. Reed, PhD, August/2009