Comparison of Phosphorus Release Characteristics in Chicago Biosolids. (S11-cox115143-Poster)

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Abstract:

Phosphorus availability and potential for P loss from biosolids-amended soils may depend on the wastewater treatment process and on how biosolids are processed before land application. Inorganic P fractionation and a batch equilibration study were conducted to compare rates of inorganic P release in various types of biosolids produced at the District, which varied by wastewater treatment plant and by biosolids processing scheme. Inorganic P in the biosolids ranged from 90 to 100 percent of total P and the rates of inorganic P release varied widely among the biosolids. The relationship between biosolids inorganic P release rates, biosolids source, treatment process, and extractable forms of P will be presented.

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