Mass fraction of clay in the bed (%) Location 2 Location 1 Location 3 Location 4 0.5 1.0 1.5 2.0 2.5 0.0 0.5 1.0 1.5 1.0 1.5 2.0 2.5 0.0 0.5 1.0 2.0 2.5 0.0 Losing condition $\frac{2\pi}{5}$ Nondimensional depth y* Neutral condition $\frac{2\pi}{5}$ Gaining condition 1.0 1.5 2.0 2.5 0.0 0.5 1.0 1.5 2.0 2.5 0.0 $\times 10^{-3}$ $2.0 \quad 2.5 \quad 0.0 \\ \times 10^{-3}$ 0.5 1.5 0.5 1.0 1.0 $\times 10^{-3}$ Relative particle count N/N_0 Mean losing concentration Losing standard deviation Mean Neutral concentration
Neutral standard deviation Mean Gaining concentration Gaining standard deviation * Experimental results with deviation