Perspective: Significance of Lake Conestee Sediment PAHs Compared to Bramlette MGP Cleanup

Duke Energy Bramlette Rd Manufactured Gas Plant (1917-1952)	**Lake Conestee Contaminated Sediment Characteristics**
Partial Site Remediation 2000-2003	Site Assessment 2000-2004 – No Removal
Processing residuals from MGP works • Coal oil / coal gas • Coal tar • Polycyclic Aromatic Hydrocarbons (PAHs) • Site Specific Cleanup Standards *Sum Carcinogenic PAHs* ***319 ug/kg CPAHs***	Carcinogenic PAHs in **LC sediments** • Sum of CPAHs *(mean)* **>4,000 ug/kg** • **>12X** Bramlette Rd cleanup standard • **3.1 Million Tons** of contaminated sediment trapped in LC ***(91X** Bramlette Removal)* ***24,800 lbs of CPAHs = 1,148X*** *Bramlette Remedial Action*
Remedial Action *[Soils only. No sediments.]* • Removal of Contaminated Soil, Offsite Treatment • Amount of Contaminated Soils Removed **33,944** ***tons*** ***(~21.6 lbs+ CPAHs)*** • 1,655 truckloads • Taken to SE Soil Recovery, Laurens Co • Thermal Treatment: 2000F to destroy PAHs • Trucked back to Bramlette Rd site for fill • Removal focused on soils in top 3 feet	Notes: • PAHs are Ecological & Human Health Risk Driver for LC • LC Remedy is **Monitored Natural Recovery** • Dependent on **containment by LC Dam** as *'Waste Containment Structure'* • **Uncontrolled Release of contaminated sediments from LC – Jun 2000-Jun 2001** ○ **128,250 tons** ○ **1,026 lbs of CPAHs** released downriver

DRAFT: Sensitive & Confidential

compiled by D.Hargett, 210530