

STS PROJECT NO.: **60095742** **6/8/2009**
 PROJECT NAME: **Kingston Coal**
 CLIENT NAME: **TVA**

SUMMARY OF TEST RESULTS

BORING NO. SC-60
 SAMPLE NO. MT-85PCF
 ELEVATION 804.00'
 CLASSIFICATION MOIST TAMP RECONSTITUTED ASH - DARK GRAY
 REMOLDING MOIST TAMP

	<u>INITIAL</u>	<u>FINAL</u>
DRY UNIT WEIGHT (pcf)	84.5	84.4
WATER CONTENT (%)	18.5	30.1
DIAMETER (cm)	7.100	7.135
LENGTH (cm)	10.991	10.894

HYDRAULIC GRADIENT (MAXIMUM) 2.18

PERCENT SATURATION 99.2 (Percent saturation calculation is based on final measurements and an estimated specific gravity of 2.30.)

HYDRAULIC CONDUCTIVITY 7.86E-05
 k (cm/sec)

Deaired water was used as the liquid permeant.

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SUMMARY OF TEST RESULTS

BORING NO. SC-60
 SAMPLE NO. MT-90PCF
 ELEVATION 804.00'
 CLASSIFICATION MOIST TAMPED RECONSTITUTED COAL FLY ASH - DARK GRAY
 REMOLDING MOIST TAMP

	<u>INITIAL</u>	<u>FINAL</u>
DRY UNIT WEIGHT (pcf)	89.3	89.5
WATER CONTENT (%)	18.9	26.2
DIAMETER (cm)	7.081	7.131
LENGTH (cm)	11.031	10.849
HYDRAULIC GRADIENT (MAXIMUM)	2.18	
PERCENT SATURATION	100.5	(Percent saturation calculation is based on final measurements and an estimated specific gravity of 2.30.)
HYDRAULIC CONDUCTIVITY k (cm/sec)	7.58E-05	

Deaired water was used as the liquid permeant.

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SUMMARY OF TEST RESULTS

BORING NO. SC-60
 SAMPLE NO. MT-95PCF
 ELEVATION 804.00'
 CLASSIFICATION MOIST TAMP RECONSTITUTED ASH - DARK GRAY
 REMOLDING MOIST TAMP

	<u>INITIAL</u>	<u>FINAL</u>
DRY UNIT WEIGHT (pcf)	94.8	94.4
WATER CONTENT (%)	19.0	22.4
DIAMETER (cm)	7.064	7.125
LENGTH (cm)	11.014	10.869

HYDRAULIC GRADIENT (MAXIMUM) 2.18

PERCENT SATURATION 99.7 (Percent saturation calculation is based on final measurements and an estimated specific gravity of 2.30.)

HYDRAULIC CONDUCTIVITY 6.43E-05
 k (cm/sec)

Deaired water was used as the liquid permeant.