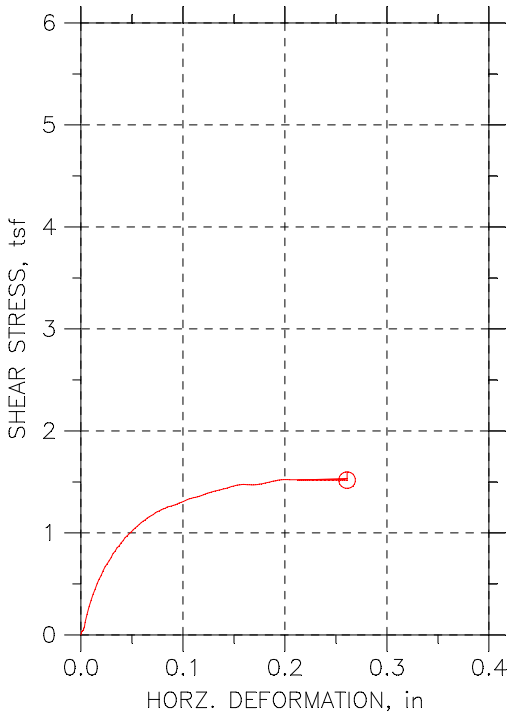
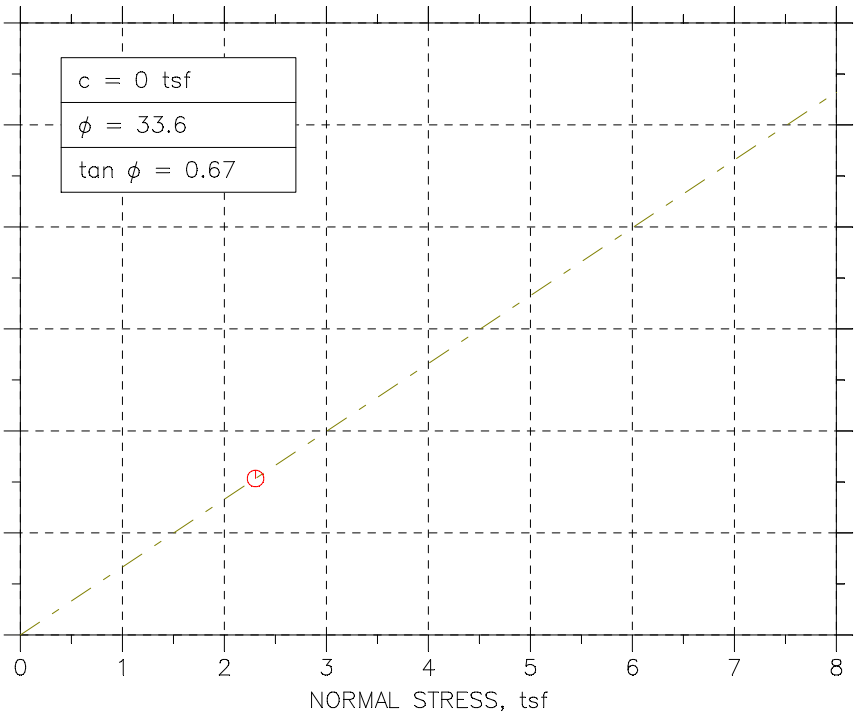
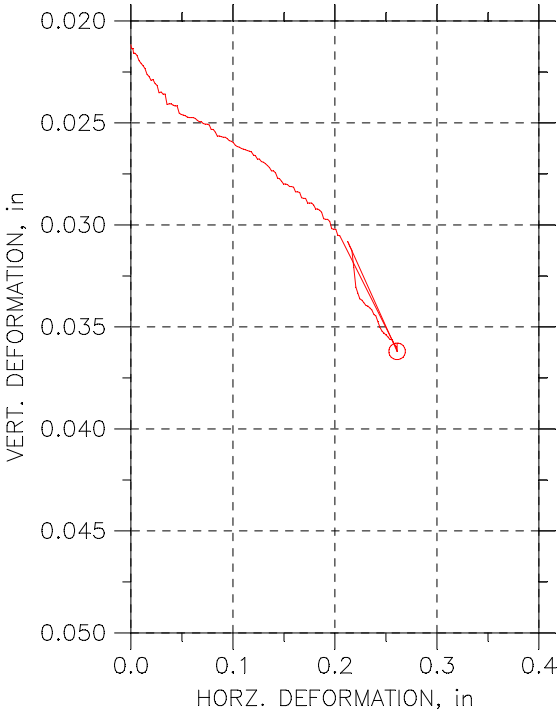
DIRECT SHEAR TEST REPORT







Symbol		⏲			
Test No.		102BOST2A			
Sample No.		OST-2			
Shape		Circular			
Initial	Dimension, in	2.5			
	Area, in^2	4.9087			
	Height, in	1.1409			
	Water Content, %	46.10			
	Dry Density, pcf	82.931			
	Saturation, %	142.48			
	Void Ratio	0.75395			
Consol. Height, in		1.1224			
Consol. Void Ratio		0.72541			
Final	Water Content, %	29.97			
	Dry Density, pcf	85.648			
	Saturation, %	100.00			
	Void Ratio	0.6983			
Normal Stress, tsf		2.3045			
Max. Shear Stress, tsf		1.5332			
Ult. Shear Stress, tsf		1.5174			
Time to Failure, min		1452.3			

Project: KINGSTON COAL	Disp. Rate, in/min	1.77
Location: TN	Measured Specific Gravity	2.33
Project No.: 60095742	Liquid Limit	NP
Boring No.: 200 32 psi	Plastic Limit	NP
Sample Type: REMOLDED	Plasticity Index	NP

Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS

Remarks: TEST PERFORMED AS PER ASTM D 3080

Fri, 05-JUN-2009 16:19:30

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
Boring No.: 200 32 psi
Sample No.: OST-2
Test No.: 102BOST2A

Location: TN
Tested By: BCM
Test Date: 02/09/09
Sample Type: REMOLDED

Project No.: 60095742
Checked By: WPQ
Depth: NA
Elevation: NA

Soil Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS
Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	2.303	0.02117	0	0
2	9.05	2.305	0.0213	0.01496	0.0004318
3	16.26	2.305	0.02133	0.03229	0.0008156
4	19.96	2.305	0.02136	0.03622	0.001199
5	23.67	2.305	0.02136	0.04173	0.001583
6	27.77	2.305	0.02136	0.0441	0.002015
7	32.03	2.305	0.02156	0.05118	0.002399
8	35.58	2.305	0.02159	0.05906	0.002783
9	38.53	2.304	0.02159	0.07245	0.003166
10	40.54	2.305	0.02159	0.08504	0.00355
11	45.21	2.305	0.02159	0.1197	0.003982
12	57.51	2.305	0.02169	0.1992	0.005949
13	71.28	2.304	0.02194	0.2764	0.007916
14	82.46	2.304	0.02207	0.3355	0.009883
15	95.37	2.305	0.0222	0.3977	0.01185
16	105.48	2.305	0.02233	0.4433	0.01382
17	118.64	2.305	0.02262	0.5	0.01578
18	129.51	2.304	0.02272	0.5441	0.01775
19	138.90	2.305	0.02291	0.5796	0.01972
20	151.57	2.305	0.02288	0.626	0.02169
21	163.75	2.305	0.02307	0.6678	0.02365
22	172.42	2.305	0.02317	0.6961	0.02562
23	181.92	2.305	0.02352	0.726	0.02759
24	192.33	2.305	0.02349	0.7575	0.02955
25	207.07	2.304	0.02358	0.7985	0.03152
26	215.13	2.305	0.02358	0.8197	0.03349
27	229.25	2.305	0.0241	0.8544	0.03545
28	236.09	2.304	0.02407	0.8717	0.03742
29	249.08	2.305	0.02407	0.9016	0.03939
30	259.24	2.305	0.02413	0.9229	0.04136
31	273.44	2.305	0.02416	0.9528	0.04332
32	282.07	2.305	0.02416	0.9701	0.04529
33	294.27	2.305	0.02452	0.9922	0.04726
34	303.19	2.305	0.02458	1.009	0.04922
35	315.71	2.305	0.02461	1.031	0.05119
36	325.49	2.305	0.02465	1.047	0.05316
37	336.65	2.305	0.02471	1.065	0.05512
38	346.65	2.305	0.02474	1.082	0.05709
39	358.89	2.305	0.02474	1.1	0.05906
40	369.07	2.305	0.02474	1.115	0.06103
41	378.03	2.305	0.02477	1.127	0.06299
42	392.87	2.305	0.02487	1.146	0.06501
43	401.94	2.305	0.02494	1.158	0.06697
44	413.62	2.305	0.02494	1.17	0.06894
45	423.27	2.304	0.02503	1.18	0.07091
46	437.46	2.305	0.02506	1.196	0.07288
47	447.02	2.305	0.02506	1.207	0.07484
48	454.83	2.305	0.0251	1.215	0.07681
49	469.22	2.305	0.02532	1.227	0.07878
50	479.58	2.305	0.02532	1.236	0.08074
51	487.27	2.305	0.02545	1.242	0.08271
52	504.06	2.305	0.02564	1.254	0.08468
53	511.17	2.305	0.02564	1.259	0.08665
54	520.06	2.305	0.02568	1.263	0.08861
55	531.36	2.305	0.02571	1.27	0.09058
56	539.95	2.305	0.02571	1.275	0.09255
57	553.06	2.305	0.02577	1.284	0.09451
58	564.88	2.304	0.02587	1.294	0.09648
59	573.28	2.305	0.0259	1.3	0.09845
60	581.87	2.305	0.02597	1.308	0.1004
61	593.01	2.305	0.02609	1.317	0.1024
62	606.76	2.305	0.02616	1.327	0.1043
63	615.57	2.305	0.02619	1.334	0.1063
64	626.11	2.305	0.02625	1.339	0.1083
65	637.65	2.305	0.02629	1.345	0.1102
66	649.14	2.305	0.02632	1.349	0.1122
67	659.22	2.305	0.02635	1.354	0.1142
68	670.17	2.305	0.02638	1.36	0.1162
69	678.79	2.305	0.02642	1.365	0.1181
70	690.58	2.305	0.02658	1.374	0.1201
71	700.71	2.305	0.02661	1.382	0.1221
72	713.57	2.305	0.02677	1.389	0.124
73	721.37	2.305	0.02677	1.395	0.126
74	732.44	2.305	0.0269	1.401	0.128
75	745.60	2.305	0.02693	1.407	0.13
76	753.09	2.305	0.02699	1.411	0.1319
77	763.70	2.305	0.02709	1.417	0.1339
78	775.64	2.304	0.02719	1.421	0.1359
79	787.17	2.305	0.02735	1.425	0.1378
80	797.02	2.305	0.02735	1.432	0.1398
81	806.40	2.305	0.02745	1.436	0.1418
82	817.64	2.305	0.0277	1.442	0.1437
83	828.14	2.304	0.02773	1.448	0.1457
84	840.69	2.305	0.02786	1.455	0.1477
85	849.86	2.305	0.02799	1.459	0.1496
86	861.06	2.305	0.02799	1.465	0.1516

87	870.76	2.305	0.02802	1.469	0.1536
88	882.14	2.305	0.02812	1.472	0.1555
89	891.17	2.305	0.02812	1.474	0.1575
90	902.33	2.305	0.02815	1.476	0.1595
91	915.66	2.305	0.02838	1.475	0.1614
92	923.33	2.305	0.02838	1.473	0.1634
93	935.16	2.305	0.02841	1.473	0.1654
94	947.36	2.305	0.02867	1.471	0.1673
95	958.26	2.305	0.0287	1.472	0.1693
96	965.19	2.305	0.0287	1.473	0.1713
97	980.04	2.305	0.02893	1.475	0.1732
98	988.56	2.305	0.02893	1.478	0.1752
99	997.59	2.305	0.02893	1.48	0.1772
100	1009.96	2.305	0.02902	1.485	0.1791
101	1021.25	2.305	0.02921	1.49	0.1811
102	1030.09	2.305	0.02921	1.494	0.1831
103	1041.33	2.305	0.02928	1.498	0.185
104	1051.68	2.305	0.02938	1.504	0.187
105	1063.34	2.305	0.0297	1.509	0.189
106	1070.95	2.305	0.02973	1.51	0.1909
107	1086.70	2.305	0.02973	1.517	0.193
108	1094.57	2.305	0.02983	1.519	0.1949
109	1105.15	2.305	0.03018	1.521	0.1969
110	1117.42	2.305	0.03021	1.522	0.1989
111	1128.62	2.305	0.03021	1.523	0.2008
112	1136.53	2.305	0.0305	1.523	0.2028
113	1148.79	2.305	0.03053	1.521	0.2048
114	1436.76	2.305	0.03581	1.522	0.2579
115	1449.68	2.304	0.03597	1.532	0.2599
116	1452.34	2.305	0.0362	1.533	0.2609
117	1190.59	2.304	0.03082	1.518	0.2126
118	1202.30	2.305	0.03105	1.517	0.2146
119	1209.81	2.305	0.03124	1.517	0.2166
120	1221.38	2.304	0.03208	1.517	0.2185
121	1232.18	2.305	0.03304	1.517	0.2205
122	1244.12	2.304	0.03333	1.517	0.2225
123	1255.11	2.305	0.03362	1.517	0.2244
124	1262.90	2.305	0.03369	1.517	0.2264
125	1273.47	2.305	0.03382	1.517	0.2284
126	1288.63	2.305	0.03394	1.517	0.2303
127	1296.56	2.305	0.03398	1.517	0.2323
128	1308.41	2.304	0.03407	1.517	0.2343
129	1317.18	2.305	0.03417	1.517	0.2362
130	1330.50	2.305	0.03439	1.517	0.2382
131	1338.08	2.304	0.03446	1.517	0.2402
132	1353.29	2.305	0.03475	1.517	0.2421
133	1362.30	2.305	0.03501	1.517	0.2441
134	1371.84	2.305	0.0352	1.517	0.2461
135	1380.86	2.305	0.0353	1.517	0.248
136	1396.34	2.305	0.03539	1.517	0.25
137	1406.04	2.305	0.03549	1.517	0.252
138	1416.97	2.305	0.03562	1.517	0.2539
139	1425.78	2.305	0.03562	1.517	0.256
140	1436.76	2.305	0.03581	1.517	0.2579
141	1449.68	2.304	0.03597	1.517	0.2599
142	1452.34	2.305	0.0362	1.517	0.2609