KLEINFELDER

P.O. Box 4293 Corpus Christi, Texas 78469 Ph. 361-854-4774

FALLING HEAD, RISING TAILWATER FLEXIBLE WALL PERMEABILITY TEST

Client: A.R.M. (Austin Reclaimed Materials)
Attn.: Mr. Troy Carter
P.O. Box 27935
Austin, Texas 78755

Project: Austin Reclaimed Materials

Tested by: Corpus
Report Date: 9/5/2006

Project No. 66166
Report No. 082332

Sample No. S-16103
Description: Brown & Tan Lean Clay with Sand (95.7% density)
Location: NECO (sampled by client)
Test Method: Corps of Engineer's Manual
EM-1110-2-1906 Appendix VII

Sample Type: remold

Permeant: Tap Water

Final Moisture Content From Trimmings

Wt. of Can (gm)	97.96
Wt. of Can and Wet Soil (gm)	1964.10
Wt. of Can and Dry Soil (gm)	1512.50
Water Content (%)	31.9

Test Conditions

Inflow Pressure (psi)	10.0
Outflow Pressure(psi)	0.0
Cell Pressure (psi)	15.0
Inflow Pipette Area (cm²)	0.8532
Outflow Pipette Area (cm²)	0.8680

Sample Characteristics

	Initial	Final
Total Weight (gm)	1783.30	1867.70
Diameter (cm)	10.10	10.10
Height (cm)	11.60	11.60
Specific Gravity (approx.)		2.68
Dry Weight (gm)		1414.54

	Initial	Final
Volume (cc)	929.37	929.37
Moisture Content (%)	26.1	32.0
Void Ratio	0.76	0.76
Saturation (%)	92	113
Total Unit Wt. (pcf)	119.7	125.4
Dry Unit Wt. (pcf)	95.0	95.0

Initial						Final						Elapsed	Total	Total	Outflow	Hydraulic
Day	Time	Temp (°C)	Inflow Reading	Outflow Reading	Head (cm)	Day	Time	Temp (°C)	Inflow Reading	Outflow Reading	Head (cm)	Time (s)	Inflow (cc)	Outflow (cc)	Inflow O/I	Conductivity (cm/s)
240	12:18	24.4	82.4	60.4	677.6	240	12:26	24.5	71.2	70.8	702.9	480	9.56	9.03	0.94	4.23E-06
240	13:37	24.6	84.6	57.9	672.1	240	13:51	24.6	70.8	71.3	704.0	840	11.77	11.63	0.99	3.04E-06
240	13:52	24.6	84.0	57.5	672.3	240	14:08	24.6	67.9	73.6	710.1	960	13.74	13.97	1.02	3.13E-06
241	07:56	26.5	84.4	60.1	674.9	241	08:14	25.9	59.8	85.3	733.3	1080	20.99	21.87	1.04	4.04E-06
241	08:16	25.9	85.2	57.5	670.9	241	08:34	25.4	61.5	79.8	724.8	1080	20.22	19.36	0.96	3.83E-06
241	08:35	25.4	84.9	57.8	671.6	241	08:55	25.0	59.8	81.8	729.2	1200	21.42	20.83	0.97	3.71E-06
241	08:56	24.8	85.0	57.6	671.3	241	09:12	24.6	65.4	76.2	716.1	960	16.72	16.14	0.97	3.69E-06

Hydraulic Conductivity at 20 ° C, cm/s (average of the last 4 readings)	**3.82E-06**
Average Hydraulic Gradient	58

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Mark Holcomb, CET

The results shown on this report are for the exclusive use of the client for whom they were obtained and apply only to the samples tested and/or inspected. They are not intended to be indicative of qualities of apparently identical products. The use of our name must receive prior written approval.