COOPER TESTING LABORATORY

Constant Head Permeability Test
ASTM D2434

CTL Job No: _____ **Boring:** _____ **Date:** _____

Client: _____ **Sample:** _____ **By:** PJ

Project Name: _____ **Depth, ft:** _____

Project No.: _____

Soil Description: Greenish Gray GRAVEL w/ Silt & Sand

Remolding Data: Target density = 92% of 138pcf.

		Constant Head Calculation, K=QL/thA				
Test #	**Elapsed Time t, (sec)**	**Volume Q, (cc)**	**Head Loss h (cm)**	**Water Temp (^oC)**	**Hydraulic Gradient**	**Coef. Of Permeability K, (cm/sec)**
1	60	1132	0.9	19.3	0.06	1.8
2	60	1199	0.9	19.3	0.06	1.9
3	115	2171	0.9	19.3	0.06	1.8
4	145	2787	0.9	19.3	0.06	1.8
				Average Permeability (cm/sec):		**1.8**
				Average Permeability (in/hr):		**2618**

Sample Data:	**Initial**	**Final**
Height, (L) in.:	9.00	9.00
Diameter, in.:	6.00	6.00
Area, (A) in^2:	28.27	28.27
Volume, in^3:	254.47	254.47
Total Volume. cc:	4170	4170
Vol. of Solids, cc:	3201	3201
Vol. of Voids, cc:	969	969
Void Ratio e:	0.30	0.30
Porosity, %:	23.2	23.2
Saturation, %:	36.7	98.5
Sp. Gravity:	2.65 assumed	2.65 assumed
Wet Weight, gm:	8837.1	9435.9
Dry Weight gm:	8481.5	8481.5
Moisture, %:	4.2	11.3
Density, pcf:	127.0	127.0

Remarks: