U.S. Army Corps of Engineers (USACE)

CONSTANT HEAD

	For us	e of this forr	m, see EM 1	110-2-19	06; the Pro	ponent agency i	s CECW-EC.					
	Pu	ırpose: This	s purpose of	this form	is to docu	ment constant h	ead tests.					
								Date:				
Project	:											
Boring No.: Sample or Specimen No.:												
	1. Sample and Specimen											
a. ფ	(1) Tare Plus Dry Soil				d. Diameter of Specimen, cm.							
⊕ ७ ⊦	(2) Tare				e. Area of Specimen, Square cm.			Α				
	(3) Dry Soil	Ws			f. Initial Height of Specimen, cm.			L				
b. Spe	cific Gravity	G			g. Initial Volume of Specimen, cc = AL			V				
c. Volu	me of Solids, cc = W _S /G	Vs			h. Initial Void Ratio = $(V - V_S) / V_S$			е				
					i. Distanc	L ₁						
	2. Test Number			1 2				3				
(1) Hei	ght of Specimen, cm.	L										
(2) Voi	d Ratio = $(AL - V_S) / V_S$	е										
			a.		b.	a.	b.	a.		b.		
(3) Rea	ading of Piezometer 1, cm.	h ₁										
(4) Rea	ading of Piezometer 2, cm.	h ₂										
(5) Hea	ad Loss, cm. = $h_1 - h_2$	h										
(6) Qua	antity of Flow, cc.	Q										
(7) Ela	psed Time, Seconds	t										
(8) Wa	ter Temperature, °C	Т										
(9) Vis	cosity Correction Factor ⁽¹⁾	R _T										
(10) Co	pefficient of Permeability,(2)	k ₂₀										
	cm./sec.	Avg.										
3. (1) Correction factor for viscosity of water at 20°C obtained from Table VII-1 (9).												
(2) $k_{20} = \frac{Q \times L \times R_T}{h \times A \times t}$												
٧	Where L = Height of Specimen or Di	stance betw	een Piezom	eter Taps	s if Used (1	0).						
4. Rem				· ·	`	,						
5a. Technician (<i>Last, First Mi</i>)				b. Date		c. Technician's Signature						
Co. Computed Du/Look Start M				- D-:		. 0	· Cimarium					
6a. Computed By (Last, First Mi)				b. Date		c. Computed By Signature						
72 Chacked By (Last First Mi)				h Deti		o Charles I D	Cian at:					
7a. Checked By (Last, First Mi)				b. Date		c. Checked By Signature						