U.S. Army Corps of Engineers (USACE)

FALLING HEAD PERMEABILITY TEST WITH CONSOLIDOMETER

For use of this form, see EM 1110-2-1906; the Proponent agency is CECW-EC.

	Purpose: 1	his form is	to documen	t falling-h	ead perme	ability tests using	g a consolidome	ter.		
				Date:						
Project	:									
Boring	No.:			Sample or Specimen No.:						
				Sample o	r Specimer	า				
ıt ns	Tare Plus Dry Soil				Diameter of Specimen, cm.			D		
Weight In Grams	Tare	are			Area of Specimen, Square cm.			А		
≥ ⊆	Dry Soil	Ws			Initial Height of Specimen, cm.			L		
Specifi	c Gravity	G			Initial Volume of Specimen, cc = AL			V		
Volume of Solids, $cc = W_S/G_S$		Vs			Initial Void Ratio = (V - V _S) /V _S			е		
Area of Standpipe, SQ CM		а			Constant = (2.303 x a)/A			С		
Capillary Rise, CM		h _C			Initial Dial Reading, IN			Do		
Height of Tailwater, CM		h _t			Correcte	orrected Tailwater, cm, h _t -h _c				
Test No.			1			2			3	
Load Ir	ncreament, T/Sq Ft	Р								
Dial Reading at Start, In .		D ₁								
Change in Ht of spec, inches = D _o - D _t		ΔD								
Height	of spec, cm = L - 2.54 x ΔD	L								
Void Ratio = (AL-V _S)/V _S		е								
			1a		1b	2a 2b		3a		3b
Initial Time		to								
Final Time		t _f								
Elapsed Time, Sec = t _f ₋ t _f		t _f								
Initial Height, Cm		h ₁								
Final Height, Cm		h ₂								
Water Temperature °C		Т								
Viscosity Correction Factor (1)		R _T								
Coefficient of Permeability, (2) Cm/Sec		k 20								
		AVG								
	rection factor for viscosity of water = 2.303 x a/A x L/t (Log h_1 - $\Delta h/h_2$ -									
Remar	ks									
Technician (<i>Last, First Mi</i>)			b. Date		c. Technician's Signature					
Computed By (<i>Last, First Mi</i>)				b. Date		c. Computed By Signature				
Ohashad Du (Last First M)						- Charles Du Circature				
Checked By (<i>Last, First Mi</i>)				b. Date		c. Checked By Signature				