

CYCLIC TRIAXIAL TEST *(Saturation and Consolidation Worksheet)*
 For use of this form, see EM 1110-2-1906; the proponent agency is CECW-EG.

1. DATE (YYYYMMDD)

2. PROJECT

3. BORING NUMBER

4. SAMPLE NUMBER 5. DEPTH (Elevation) 6. TEST NUMBER 7. METHOD OF SPECIMEN PREPARATION

8. CONSOLIDATION PRESSURE, $\bar{\sigma}_{3c}$, psi 9. CONSOLIDATION STRESS RATIO, $K_c = \bar{\sigma}_{1c} / \bar{\sigma}_{3c}$

SECTION I - COMPUTATION OF SATURATION AND CONSOLIDATION DATA

1. STEP	a. CHAMBER PRESSURE σ_3 , psi	b. UPLIFT P_s lb.	c. BACK PRESSURE u , psi	d. EFFECTIVE CONFINING STRESS $\bar{\sigma}_{3c}$, psi	e. AXIAL CONSOLIDATION LOAD, P_s , lb.	f. BURETTE READING cc.	g. DIAL READING INCHES	h. REMARKS

2. $P_3 = \sigma_3 \times A_{rod}$ - WEIGHT OF CAP AND PISTON 3. $P_s = P_s + A_{sat} (K_c - 1) \bar{\sigma}_{3c}$

SECTION II - DESIRED LOADING CONDITIONS

1. DESIRED STRESS RATIO, $\pm \sigma_{dc} / 2 \bar{\sigma}_{3c} =$

2. CYCLIC DEV. STRESS, $\pm \sigma_{dc} = 2 \bar{\sigma}_{3c} \times SR =$ psi

3. CYCLIC LOAD, ΔP_c OR ΔP_E , $\pm \sigma_{dc} \times A_c$ lb.

4. REMARKS