Department of the Interior
U.S. Fish & Wildlife Service
Water Resources Branch

PEG TEST OF ENGINEER'S LEVEL
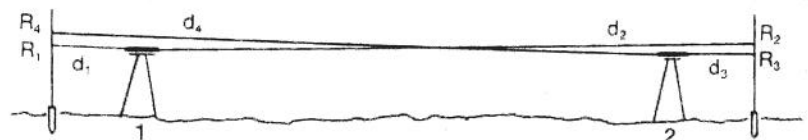
Date _ _ _ _ _ _ _ _ Tested by _ _ _ _ _ _ _ _ _ _ _ _

Level type and ID _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

c found _ _ _ _ _ _ _ _	Fixed scale ☐
Last test date _ _ _ _ _ _ _ _ _ _ _ _ _ c left _ _ _ _ _ _ _ _	Peg test ☐

TEST AS FOUND
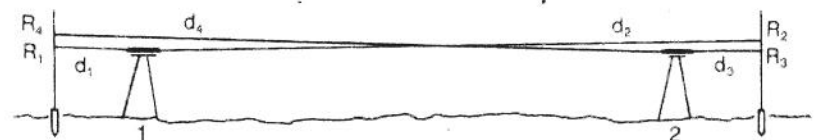
$$* \; c = 100 \times \frac{(R_1 + R_3) - (R_2 + R_4 - **CR)}{(d_2 + d_4) - (d_1 + d_3)}$$

$$c = 100 \times \frac{(\quad + \quad) - (\quad + \quad - \quad)}{(\quad + \quad) - (\quad + \quad)}$$

$$c = 100 \times \frac{-}{-} = \underline{\qquad} \text{ As found}$$

	R	d
1		
2		
3		
4		

ADJUSTMENT (level remains set up at 2 and sighted at R₄)

Adjust cross hair to $R_4 \dfrac{-}{+} \dfrac{cd_4}{100} = \dfrac{\qquad}{100} = $

Cross hair setting = $\underline{\qquad}$

REPEAT OF TEST AFTER ADJUSTMENT

$$c = 100 \times \frac{(\quad + \quad) - (\quad + \quad - \quad)}{(\quad + \quad) - (\quad + \quad)}$$

$$c = 100 \times \frac{-}{-}$$

$$c = \underline{\qquad} \text{ As left}$$

	R	d
1		
2		
3		
4		

* c is the collimation factor, the inclination of the line of sight in ft/100 ft, minus when up from the instrument, and plus when down.

**CR is twice the curvature and refraction correction for a sight of $\frac{d_2 + d_4}{2}$ ft. Its value, which increases the rod reading, is tabulated at right.

$(d_2 + d_4)/2$	**CR
0 – 110	0
110 – 190	.001
190 – 245	.002
245 – 290	.003
290 – 350	.004