

asked question on permeability?!!

given $Q = \checkmark$, $E = \checkmark$ & asked to find Energy

from OCF

with pipe.

from OCF

Q. Given $Q = 0.15 \text{ m}^3/\text{sec}$ for a flow in a pipe.

Its having dia 900 mm , slope 0.004 , given coefficient

of roughness $n = 0.013$. What's the ratio of

discharge when its running actually to the running

full...

$$\frac{Q_{\text{actual}}}{Q_{\text{full}}} = \frac{0.15}{\frac{\pi (0.9)^2}{4} \times \frac{1}{n} (m)^{2/3} (s)^{1/2}}$$

Q. Sequence, for solid waste

- ① Reduce, ~~use~~
- ② Re Use, Recycle
- ③ Energy Recover
- ④ Land filling

(11) Being same. Ratio of friction Loss of Pipe A to Pipe B

(12) Given $G_t = \checkmark$, Volume = \checkmark , Dynamic viscosity = \checkmark
asked to find power required = ? [from jar test]

Concentration of H^+ ion 10 mg/L, mol. wt = 1, $p^H = ?$

10 Given area of jet at Vena Contracta = , given area of orifice,
given Coeff. velocity, asked to find, Coeff. discharge =!

$$C_c = \frac{\text{area at Vena Contracta}}{\text{area at orifice}}$$

$$C_d = C_c \times C_v.$$

11 Pipe 'B' has twice the diameter as pipe 'A', Remaining
Being same. Ratio of friction Loss of pipe 'A' to pipe 'B'