1 Undrained Shear Strength

$$s_u = \sigma'_v S(OCR)^m$$
, where $S = (s_u/\sigma'_v)_{NC}$

2 Overconsolidation Ratio, OCR

$$OCR = \frac{\sigma'_{p}}{\sigma'_{vo}} = \left[\frac{s_{u}/\sigma'_{vo}}{S}\right]^{1/m}$$

 \bigcirc Maximum Past Pressure, σ'_p , from Field Vane Shear Tests

$$\sigma'_{p} = \sigma'_{vo} \left[\frac{(s_{u})_{FV} / \sigma'_{vo}}{S_{DSS}} \right]^{1/m}$$
, where, $S_{DSS} = (s_{u} / \sigma'_{vc})_{NC}$ from Direct Simple Shear Tests $\mu = \text{Field Shear Vane Correction Factor}$