



Depth (m)	Pier 3 Soil Properties
0 - 4 [CLAY]	$S_u=12\text{kPa}$, $e_{50}=2.65\%$, $\gamma_{\text{sat}}=13\text{kN/m}^3$
4 - 10.5 [LIQ.]	$S_r=22.1\text{kPa}$, $\varepsilon_{50}=0.88\%$, $\gamma_{\text{sat}}=14\text{kN/m}^3$ $S_u=18\text{kPa}$, $D_e=0.10$
10.5 - 12 [LIQ.]	$S_r=15.6\text{kPa}$, $\varepsilon_{50}=1.05\%$, $\gamma_{\text{sat}}=14\text{kN/m}^3$ $S_u=24\text{kPa}$, $D_e=0.33$
12 - 19.5 [LIQ.]	$S_r=30.0\text{kPa}$, $\varepsilon_{50}=0.49\%$, $\gamma_{\text{sat}}=14\text{kN/m}^3$ $S_u=44\text{kPa}$, $D_e=0.33$
19.5 - 36 [CLAY]	$S_u=70\text{kPa}$, $\varepsilon_{50}=0.80\%$, $\gamma_{\text{sat}}=17\text{kN/m}$
36 - 50 [SAND]	$\phi=37^\circ$, $\gamma_{\text{sat}}=18\text{kN/m}^3$