

Figure 2.5.4-201. Groundwater Levels Zone 3 Aquifer

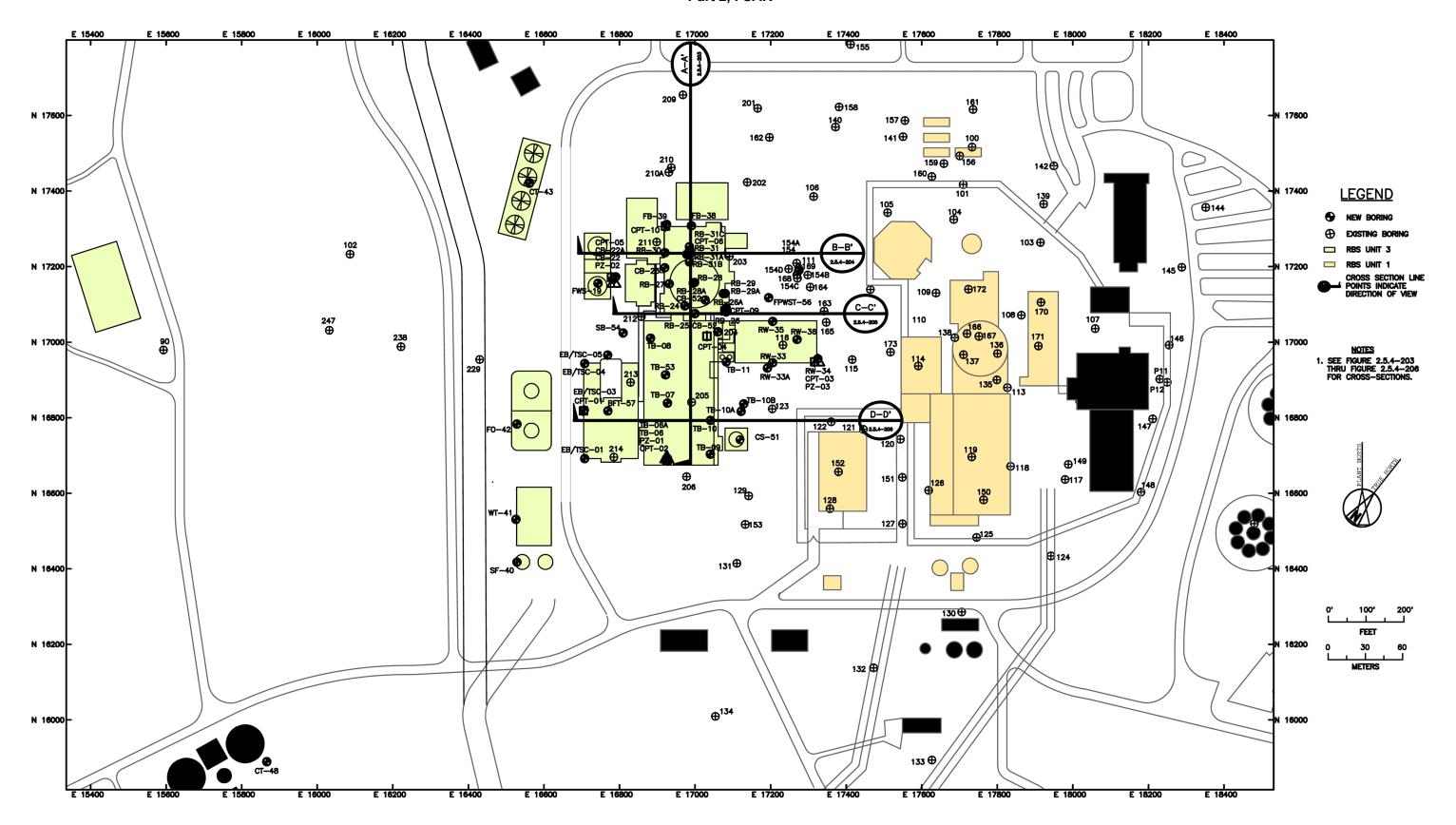


Figure 2.5.4-202. Subsurface Investigation Plan

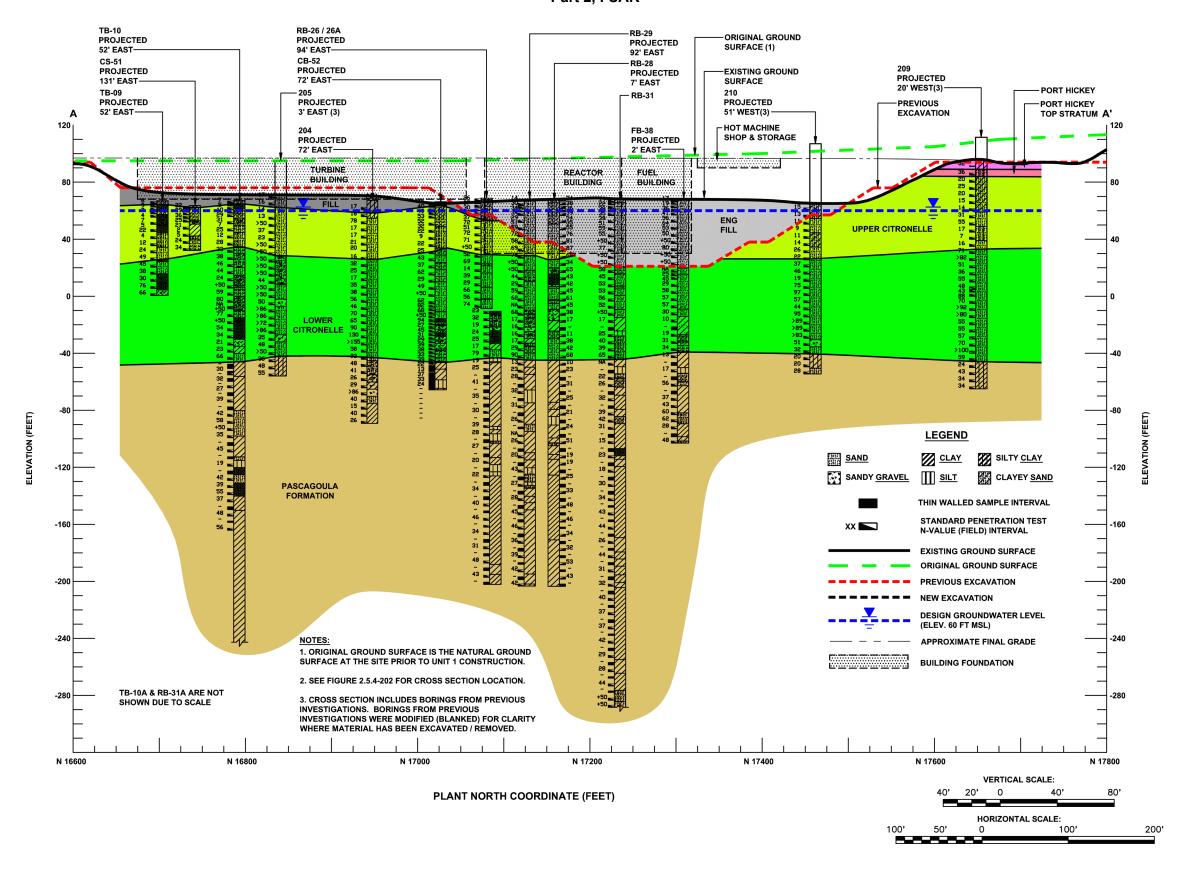


Figure 2.5.4-203. Cross Section A-A' Through RBS Unit 3 Site Location

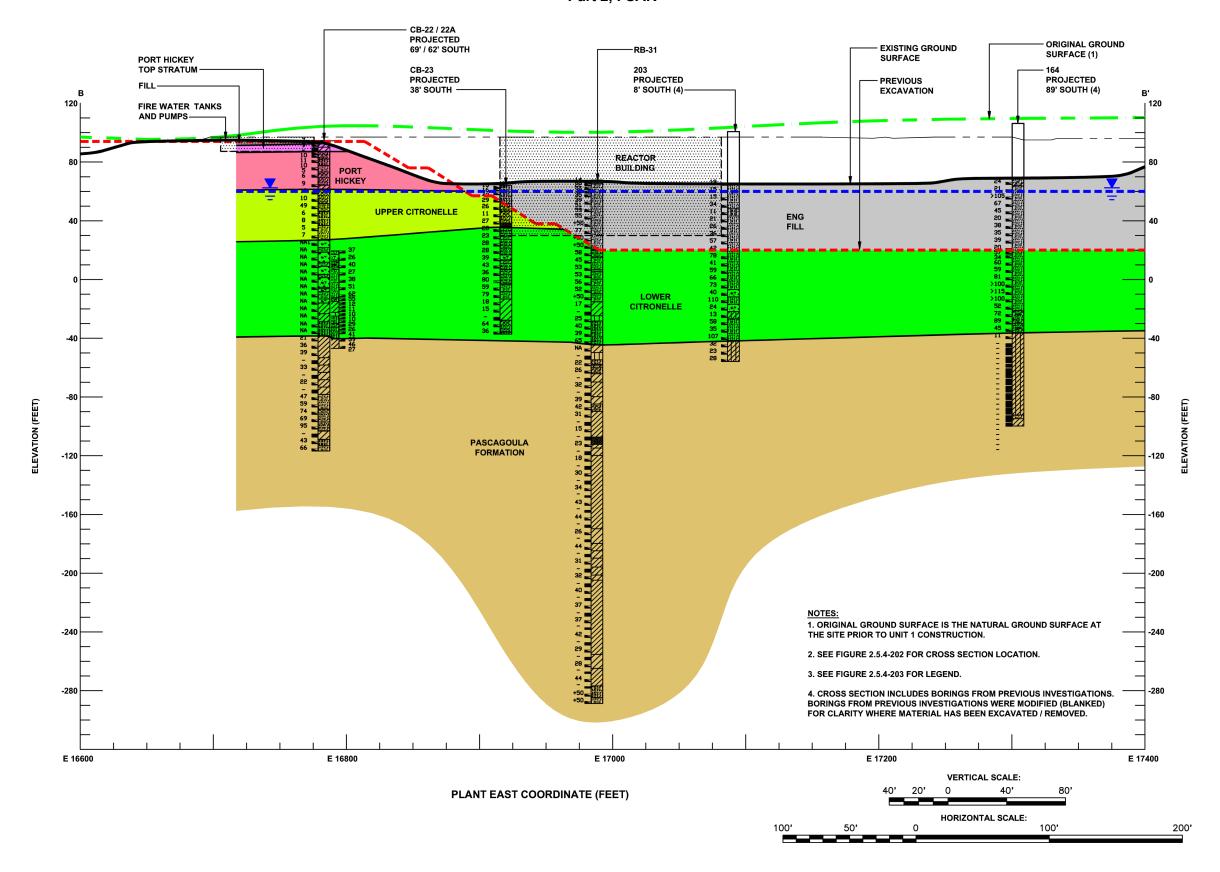


Figure 2.5.4-204. Cross Section B-B' Through RBS Unit 3 Site Location

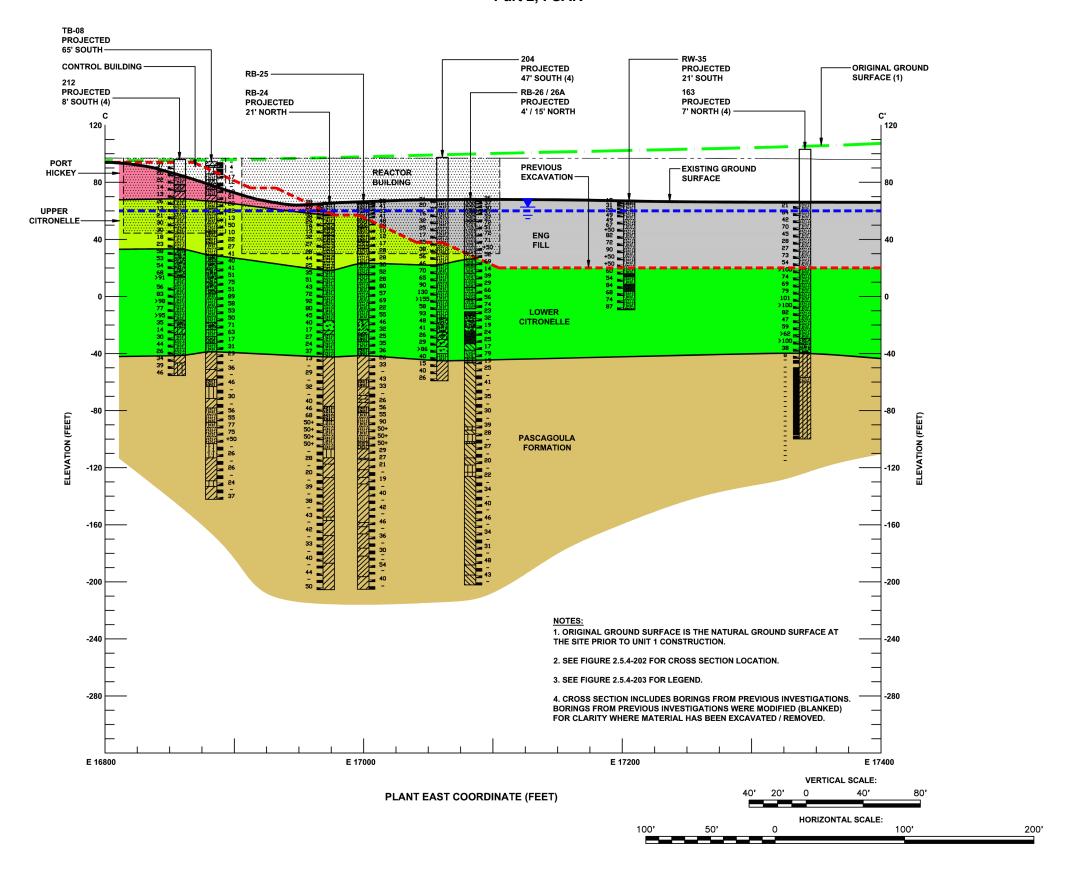


Figure 2.5.4-205. Cross Section C-C' Through RBS Unit 3 Site Location

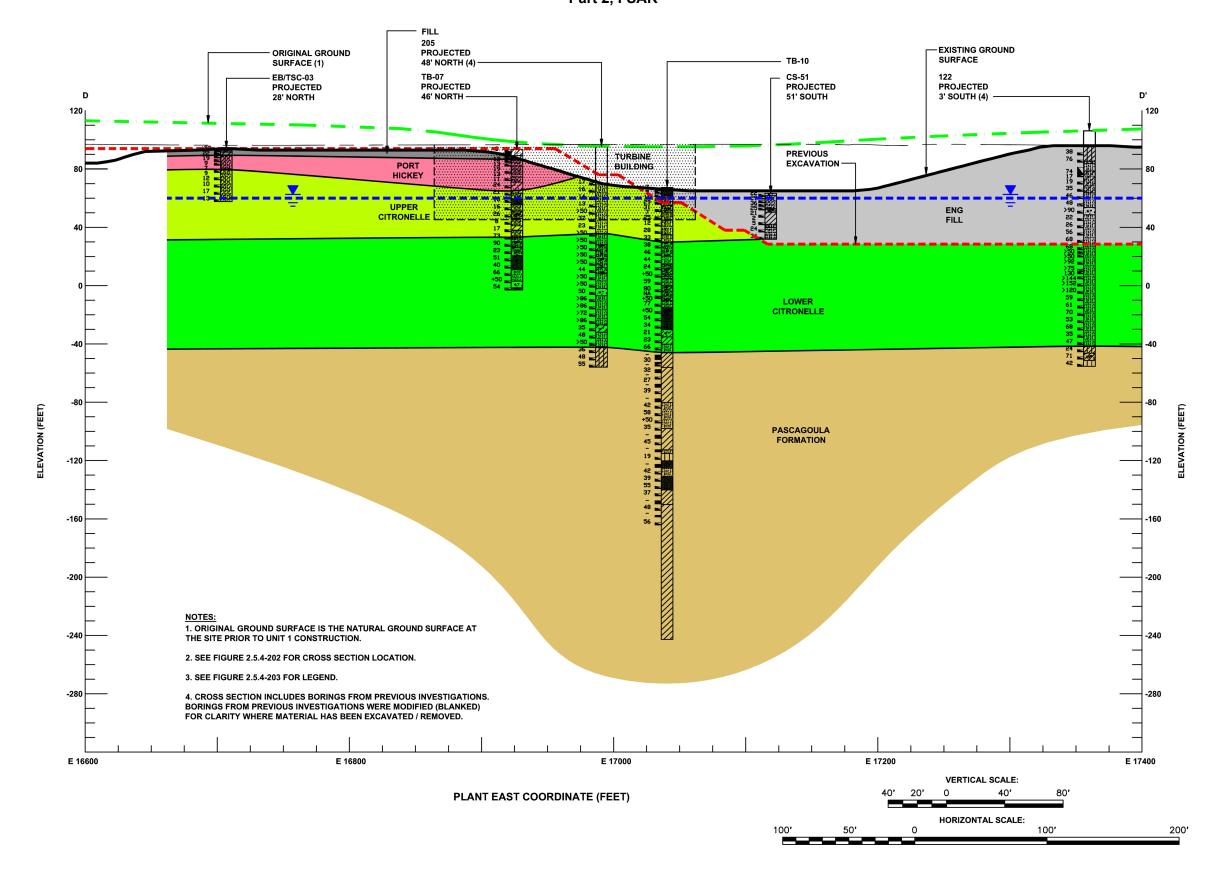


Figure 2.5.4-206. Cross Section D-D' Through RBS Unit 3 Site Location

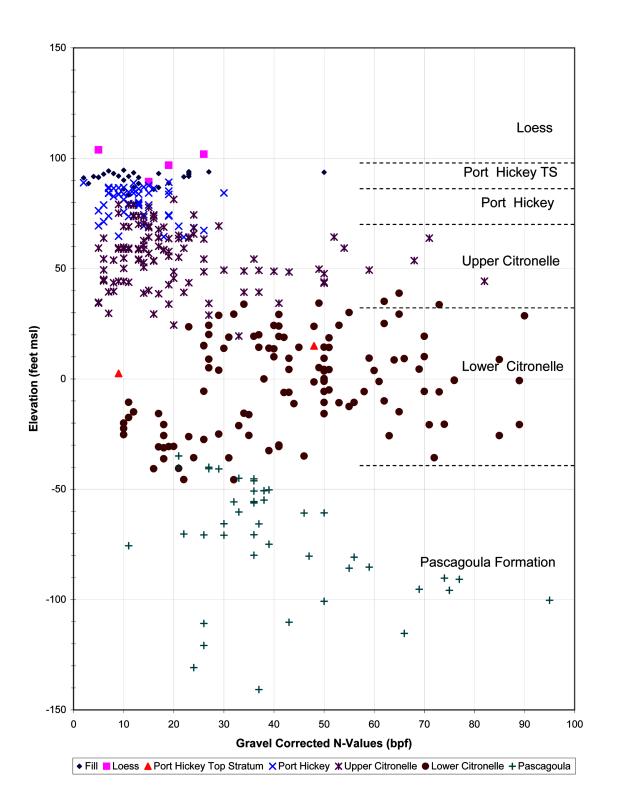


Figure 2.5.4-207. Gravel-Corrected Field N-Values, Borings Outside Excavation

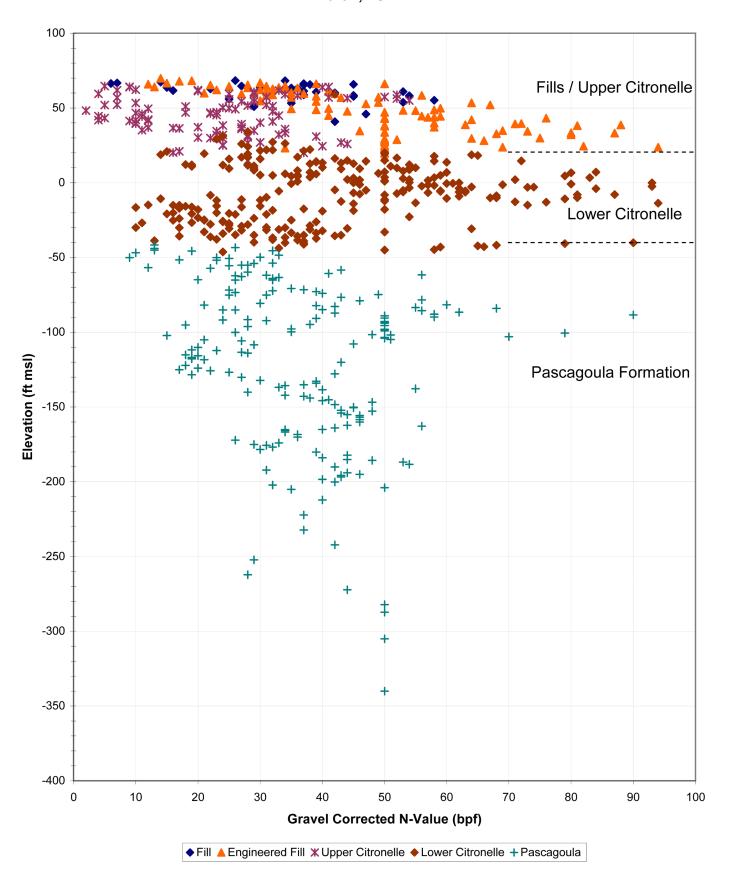


Figure 2.5.4-208. Gravel-Corrected Field N-Values, Borings Inside Excavation

Reactor and Fuel Buldings

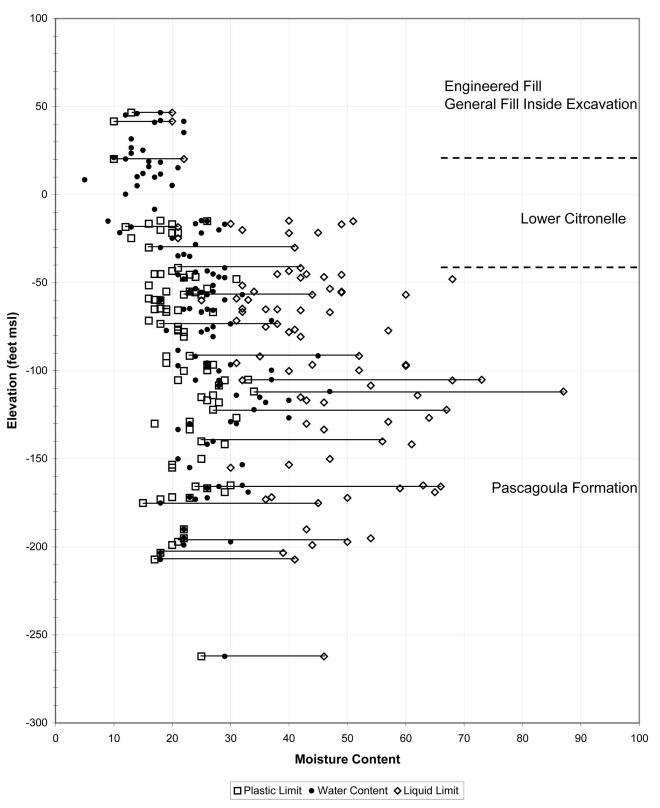


Figure 2.5.4-209. Natural Moisture Content and Atterberg Limits (Sheet 1 of 4)

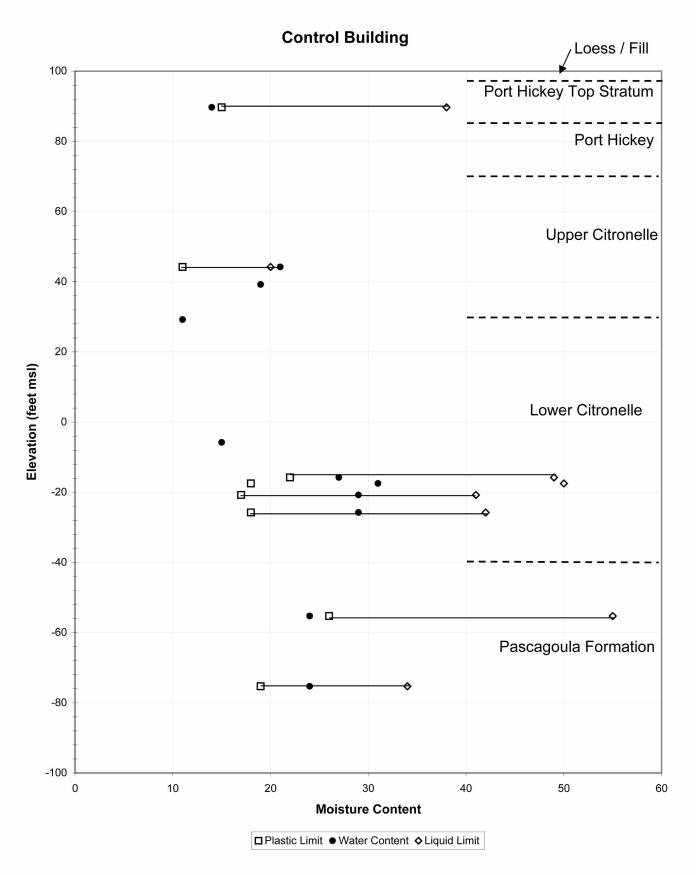


Figure 2.5.4-209. Natural Moisture Content and Atterberg Limits (Sheet 2 of 4)

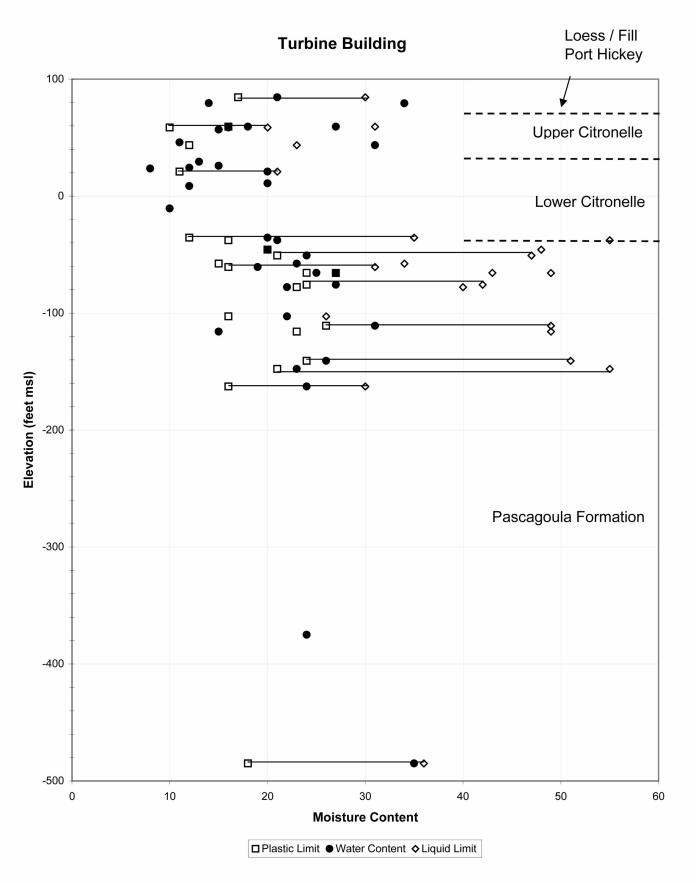


Figure 2.5.4-209. Natural Moisture Content and Atterberg Limits (Sheet 3 of 4)

Outside Nuclear Island

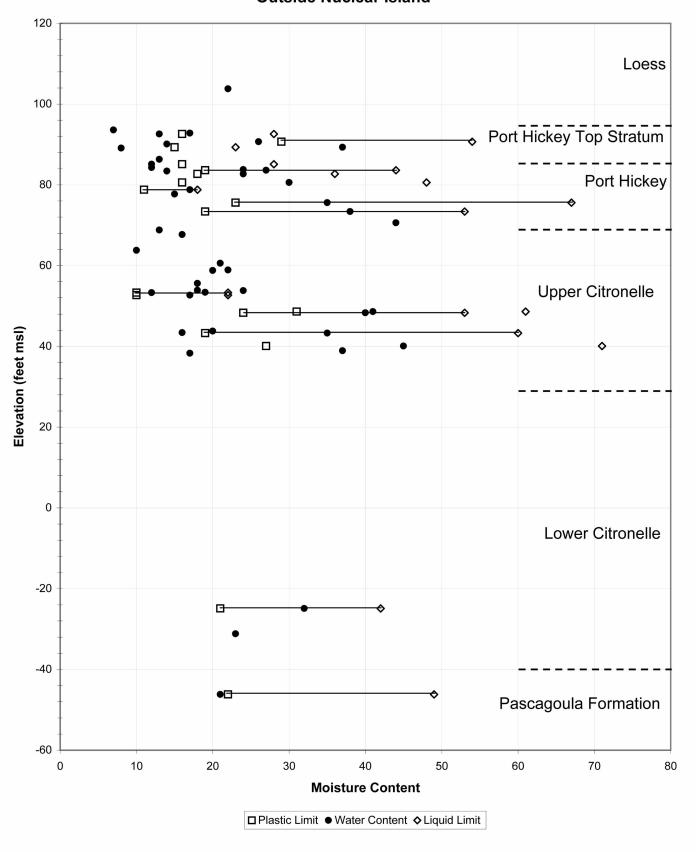


Figure 2.5.4-209. Natural Moisture Content and Atterberg Limits (Sheet 4 of 4)

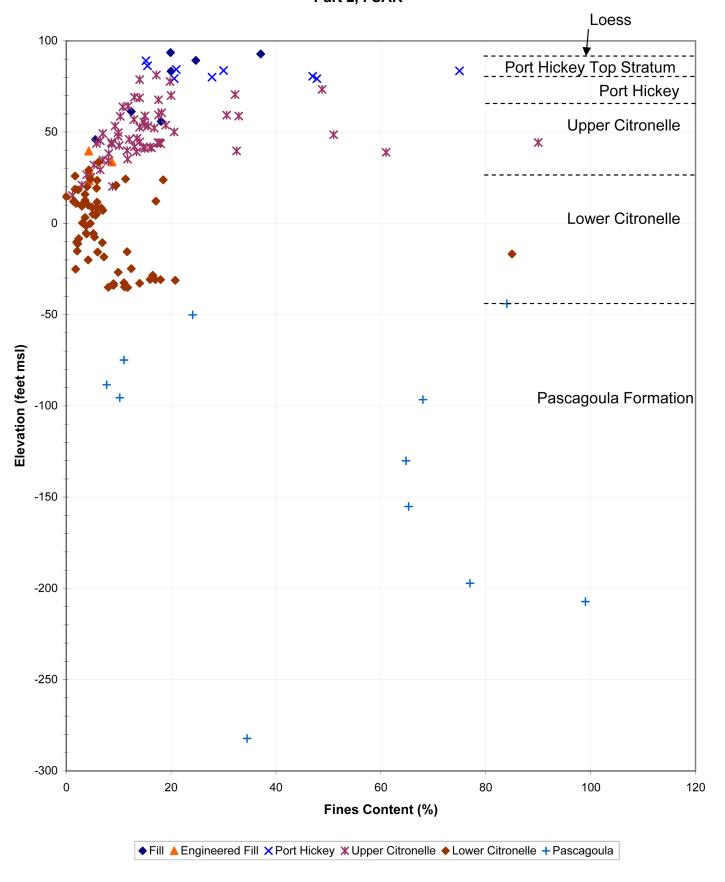


Figure 2.5.4-210. Fines Content

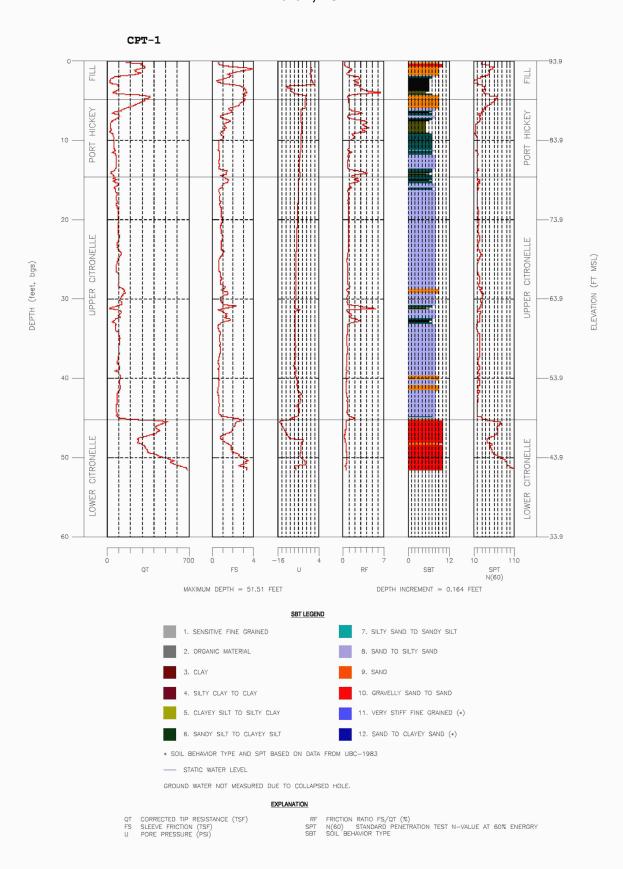


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 1 of 9)

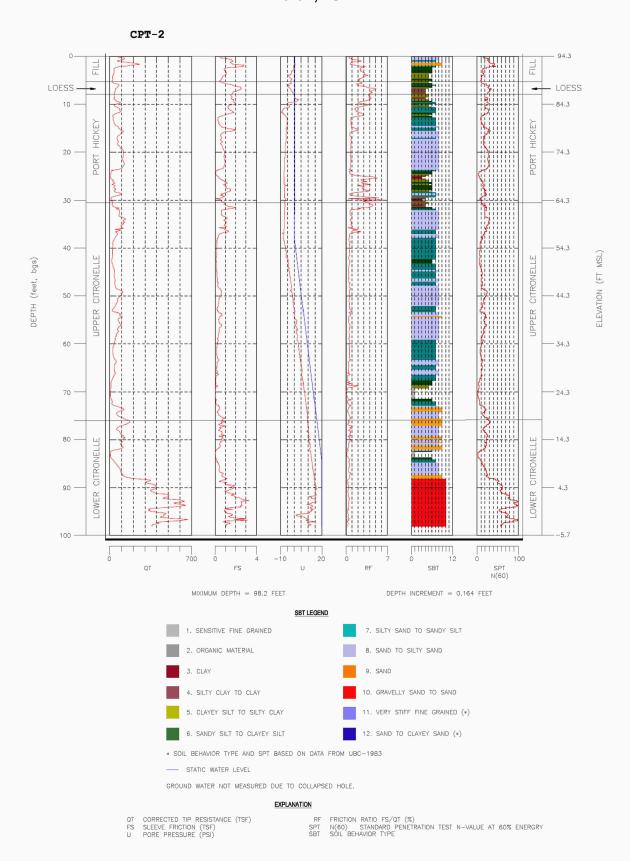


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 2 of 9)

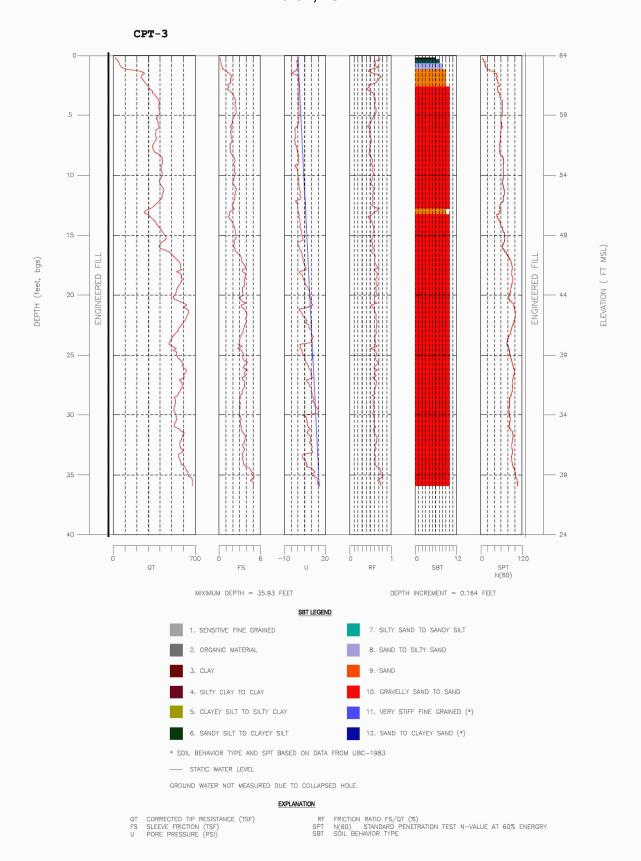


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 3 of 9)

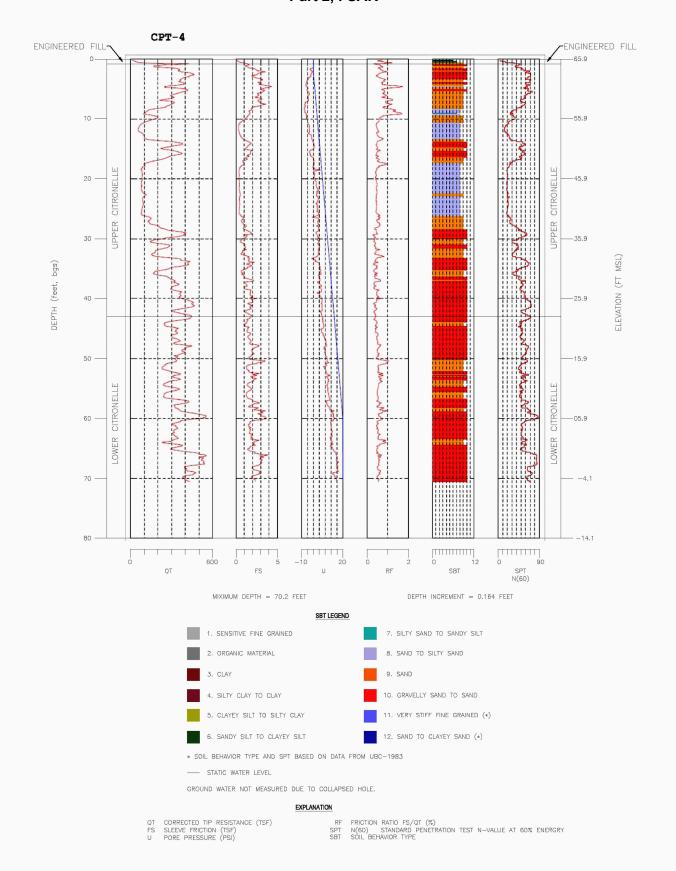


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 4 of 9)

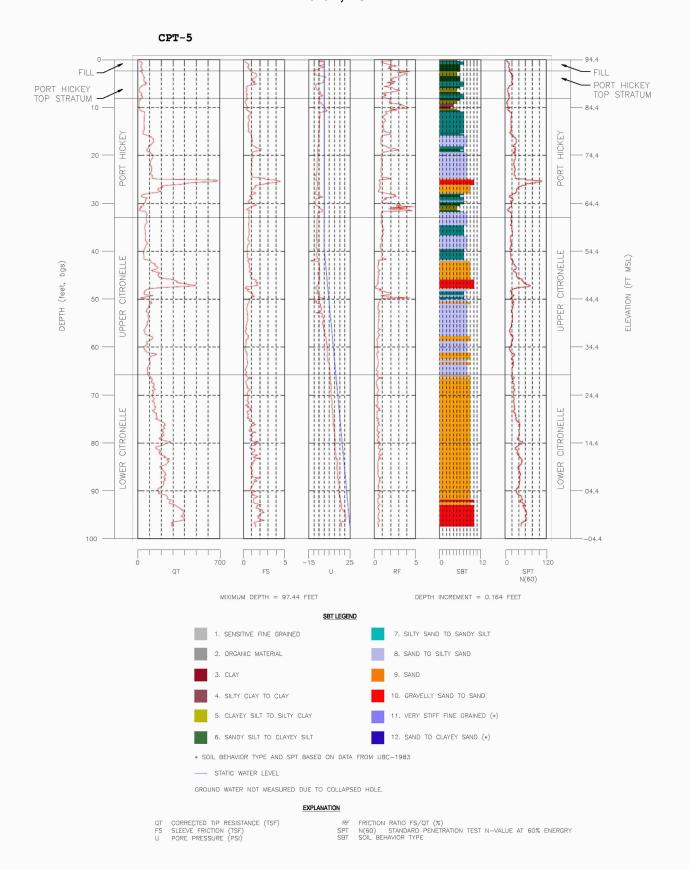


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 5 of 9)

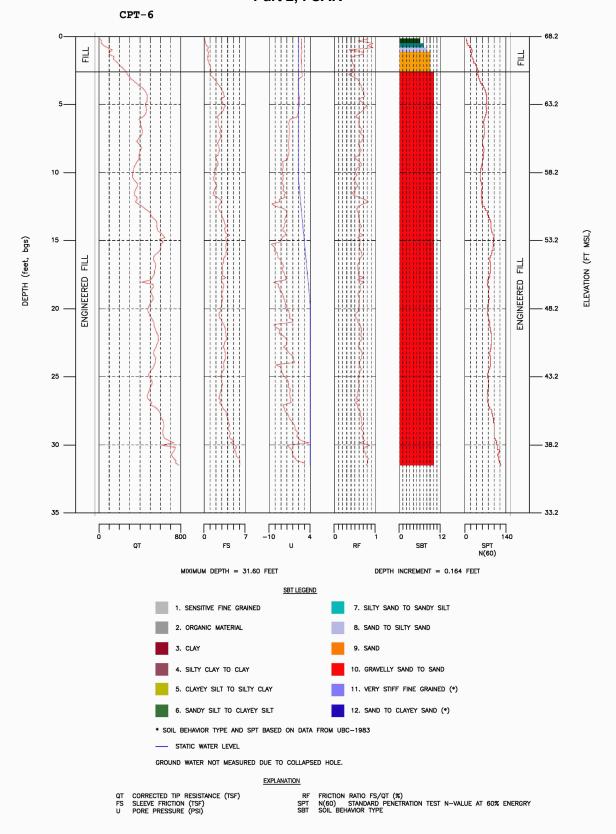


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 6 of 9)

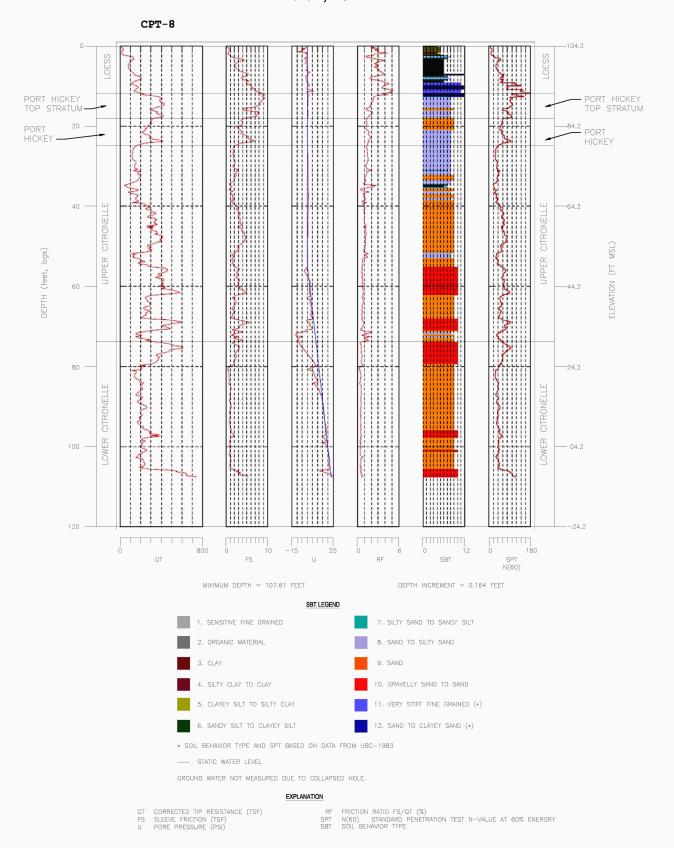


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 7 of 9)

River Bend Station, Unit 3 **COL Application** Part 2, FSAR CPT-9 -67.0 -65.0 (feet, bgs) - 59.0 10 -__ 57.0 - 55.0 - 53.0 ENGINEERED FILL - ENGINEERED FILL 51.0 140 N(60) DEPTH INCREMENT = 0.164 FEET MIXIMUM DEPTH = 18.0 FEET SBT LEGEND 1. SENSITIVE FINE GRAINED 7. SILTY SAND TO SANDY SILT 2. ORGANIC MATERIAL 8. SAND TO SILTY SAND 3. CLAY 10. GRAVELLY SAND TO SAND 4. SILTY CLAY TO CLAY 5. CLAYEY SILT TO SILTY CLAY 11. VERY STIFF FINE GRAINED (*) 12. SAND TO CLAYEY SAND (*) 6. SANDY SILT TO CLAYEY SILT * SOIL BEHAVIOR TYPE AND SPT BASED ON DATA FROM UBC-1983

Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 8 of 9)

- STATIC WATER LEVEL

GROUND WATER NOT MEASURED DUE TO COLLAPSED HOLE.

EXPLANATION

QT CORRECTED TIP RESISTANCE (TSF) RF FRICTION RATIO FS/QT (%)
FS SLEEVE FRICTION (TSF) SPT N(60) STANDARD PENETRATION TEST N-VALUE AT 60% ENERGRY
U PORE PRESSURE (PSI) SBT SQIL BEHAVIOR TYPE

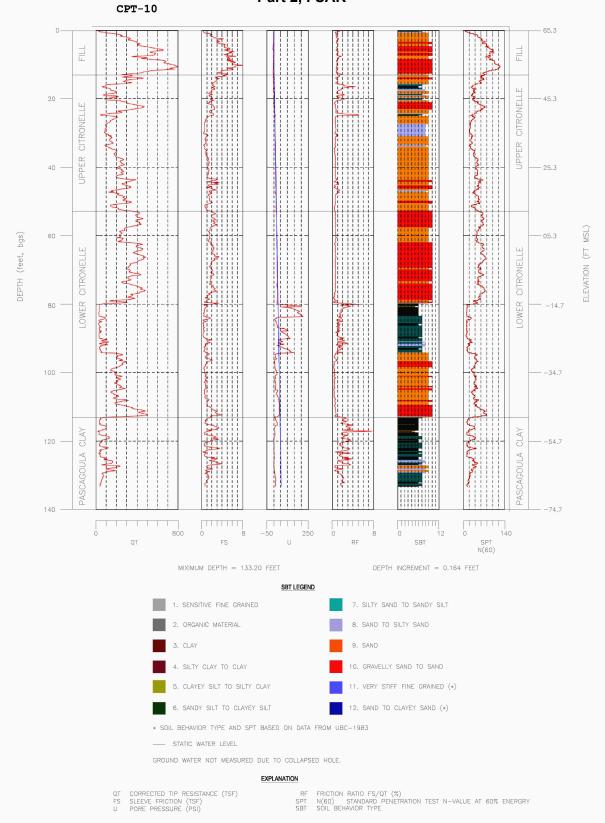


Figure 2.5.4-211. Cone Penetrometer Test Summary Logs (Sheet 9 of 9)



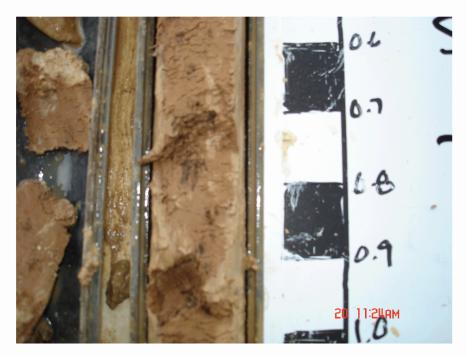


Figure 2.5.4-212. Photographed Sample of Loess

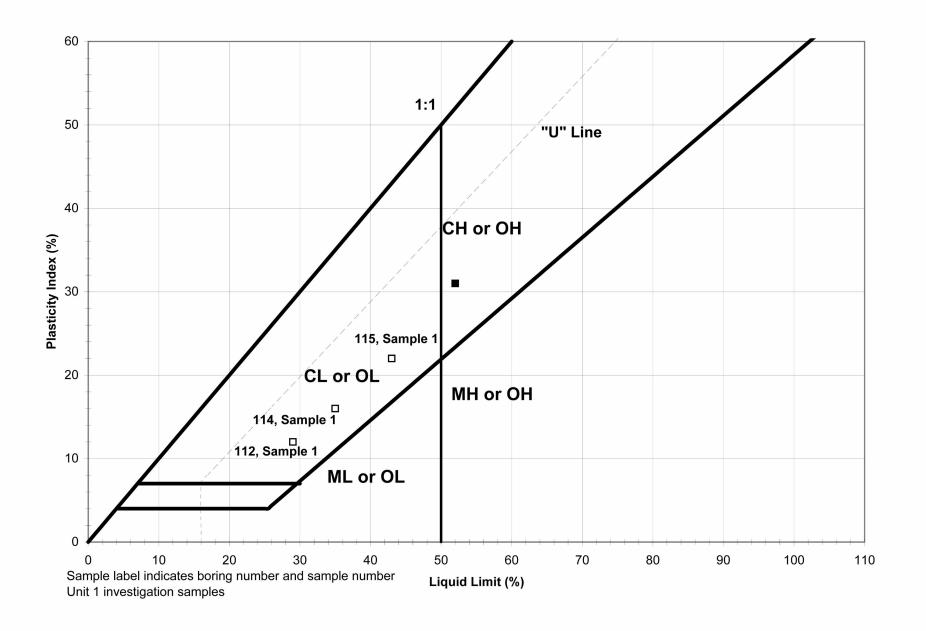


Figure 2.5.4-213. Plasticity Chart, Loess



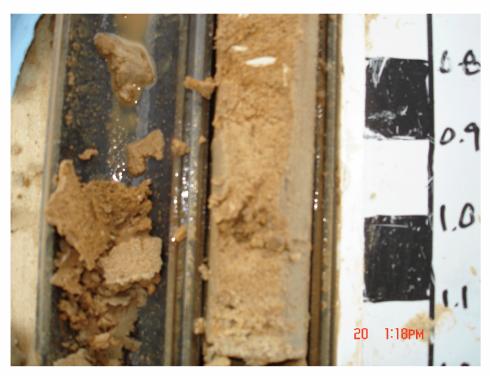


Figure 2.5.4-214. Photographed Sample of Port Hickey Top Stratum





Figure 2.5.4-215. Photographed Sample of Port Hickey Formation

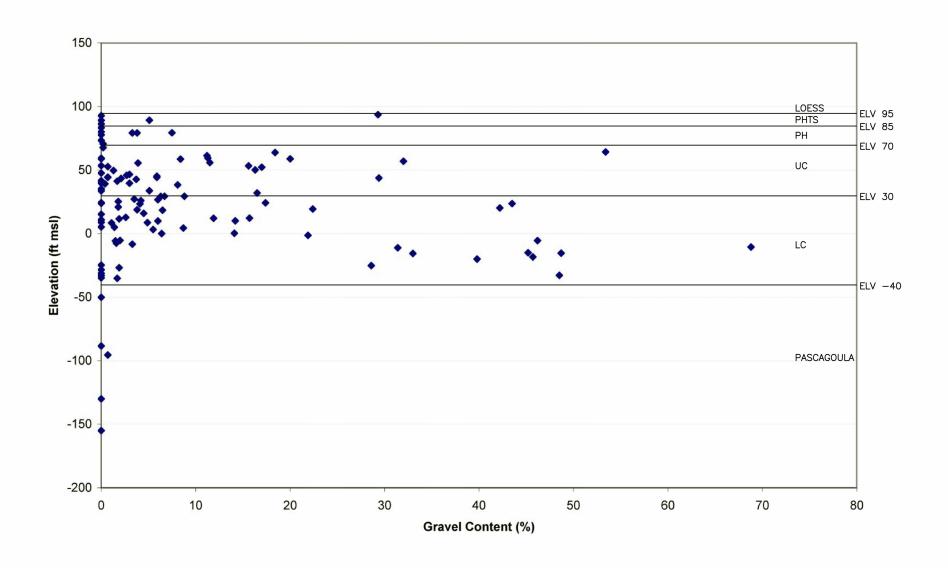


Figure 2.5.4-216. Gravel Content

Plasticity Chart, Upper Citronelle

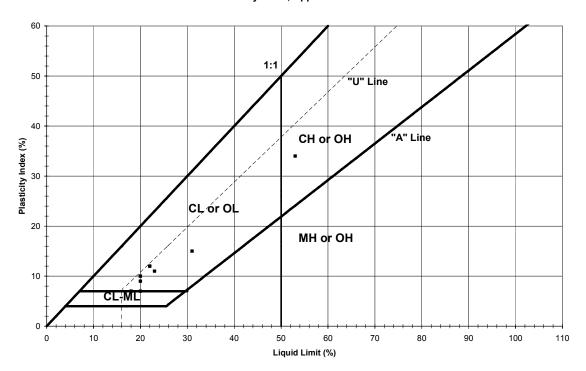


Figure 2.5.4-217. Plasticity Chart, Upper Citronelle

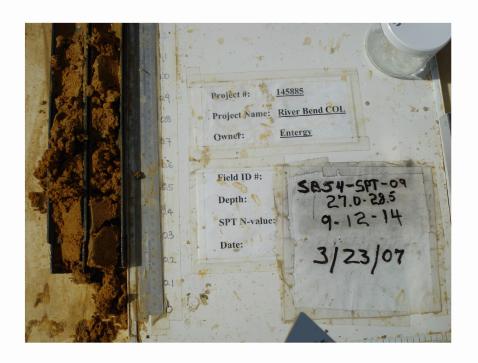




Figure 2.5.4-218. Photographed Sample of Upper Citronelle

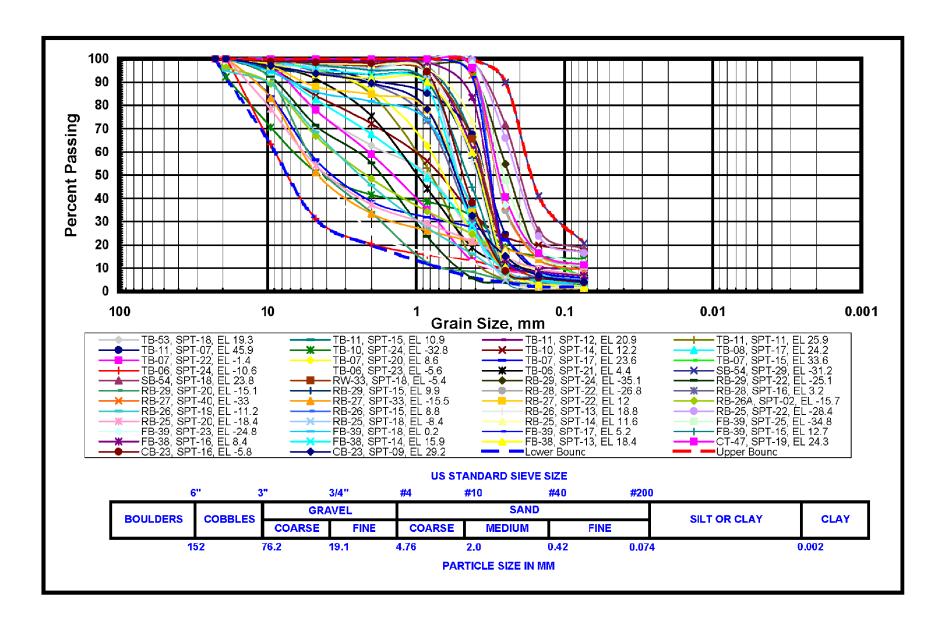


Figure 2.5.4-219. Grain Size Distributions, Lower Citronelle

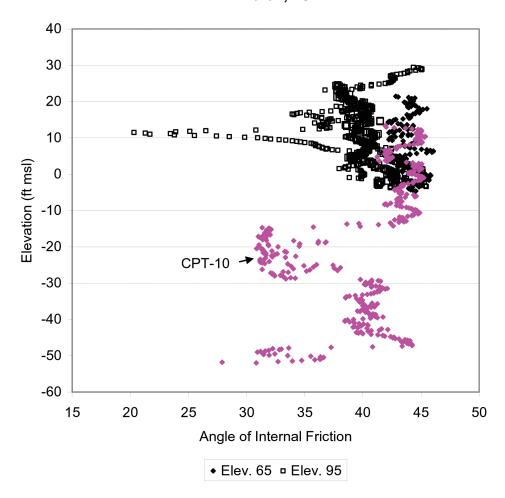


Figure 2.5.4-220. Angle of Internal Friction, Lower Citronelle, Based on CPT Soundings

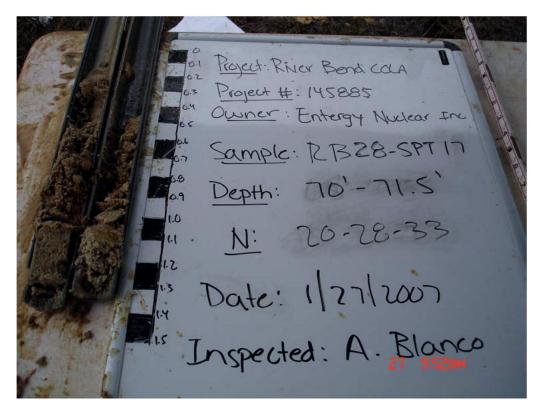




Figure 2.5.4-221. Photographed Sample of Lower Citronelle

Plasticity Chart Cohesive Soils Pascagoula Cohesive

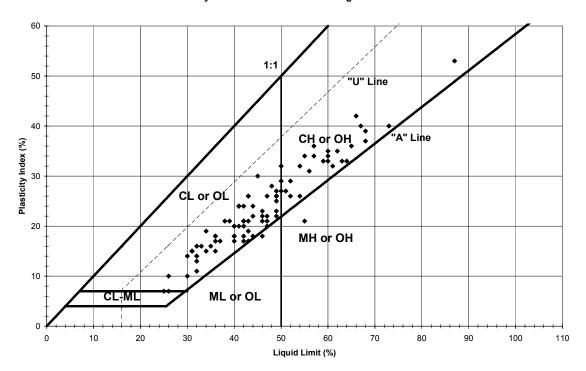


Figure 2.5.4-222. Plasticity Chart, Pascagoula Formation

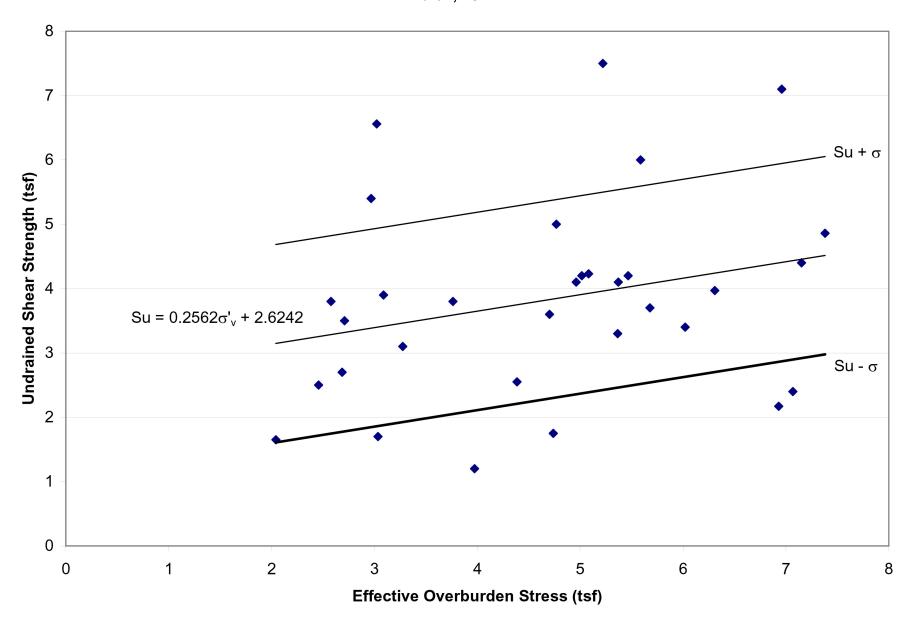


Figure 2.5.4-223. Undrained Shear Strength as a Function of Effective Overburden Stress, Pascagoula Formation

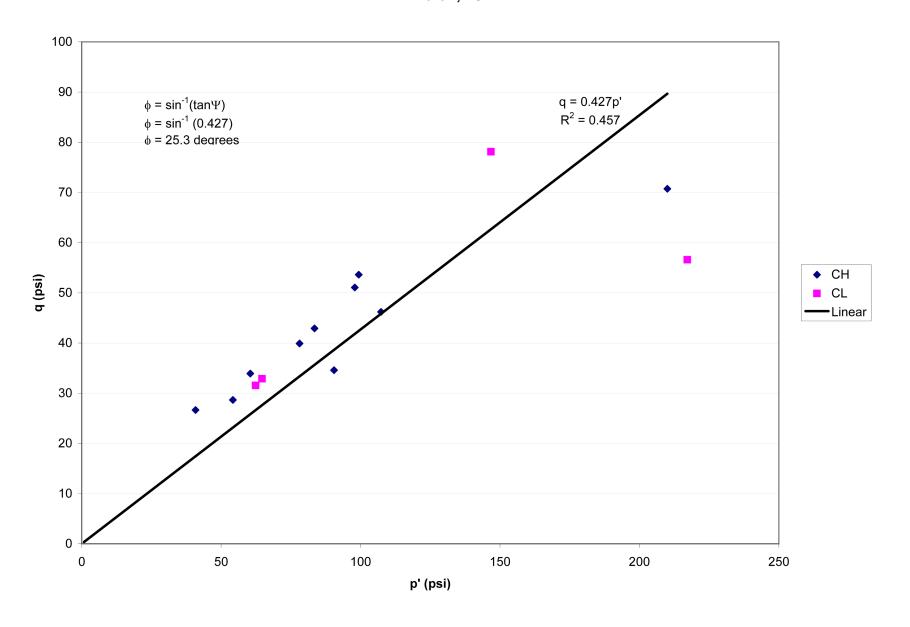
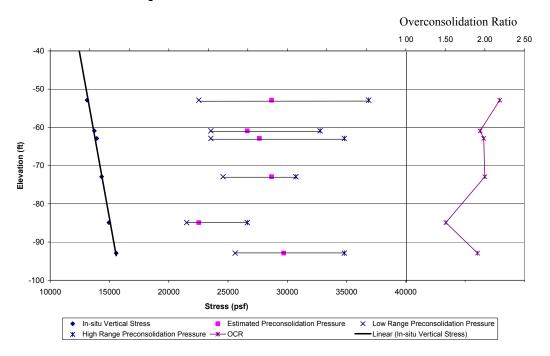


Figure 2.5.4-224. Failure Envelope, Pascagoula Formation

Boring 136 Effective Vertical Stress and Preconsolidation Pressure



Boring 138 Effective Vertical Stress and Preconsolidation Pressure

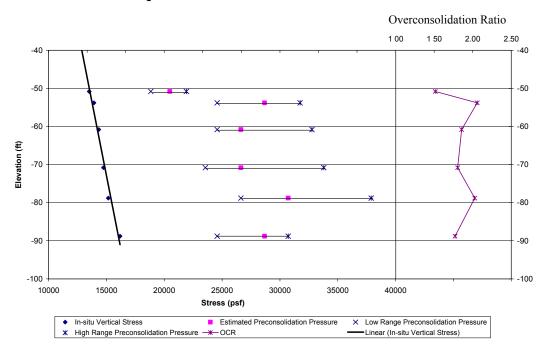


Figure 2.5.4-225. Consolidation Test Results, RBS Unit 1 Site Investigation (Sheet 1 of 2)

Boring 163 Effective Vertical Stress and Preconsolidation Pressure

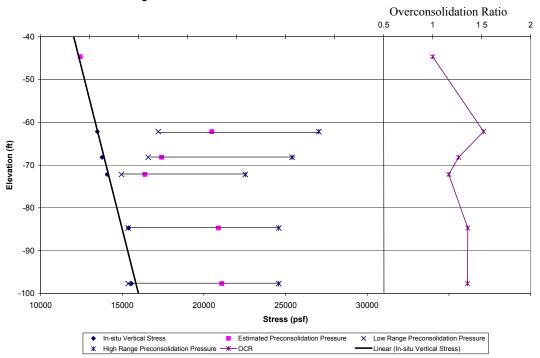


Figure 2.5.4-225. Consolidation Test Results, RBS Unit 1 Site Investigation (Sheet 2 of 2)

Engineered Fill

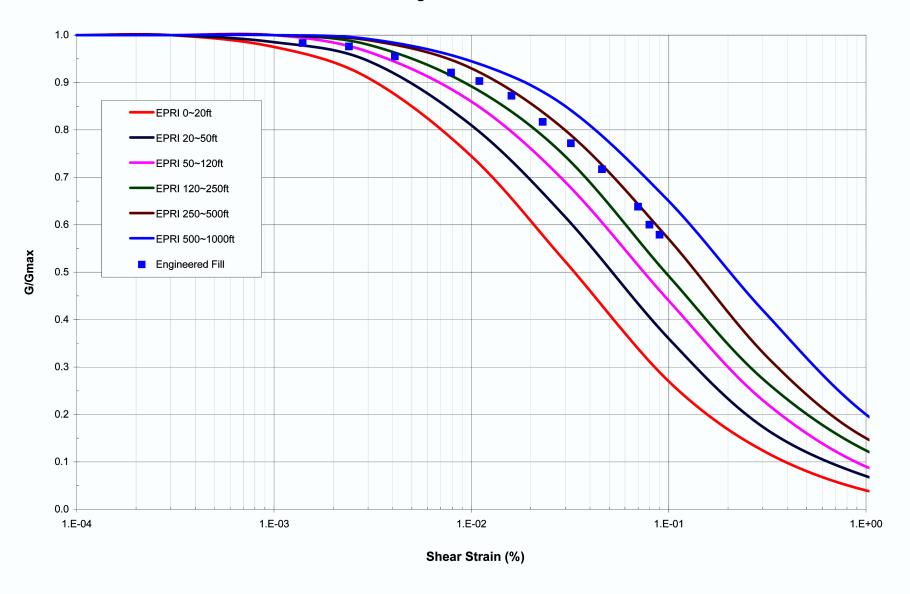


Figure 2.5.4-226. Shear Modulus Reduction Curves and Test Data at In Situ Confining Stress (Sheet 1 of 4)

Modulus Reduction Sands Lower Citronelle, 1x In Situ Confining Stress

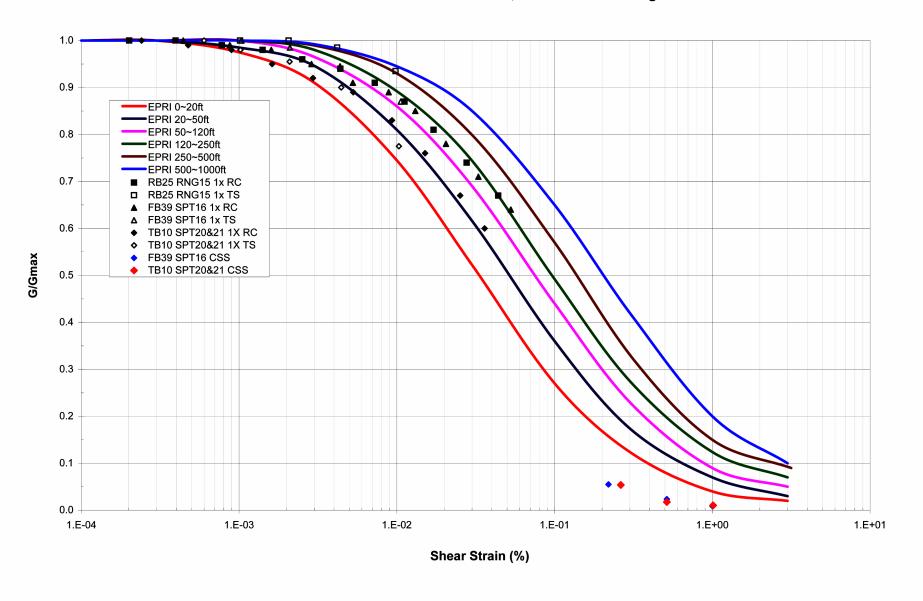


Figure 2.5.4-226. Shear Modulus Reduction Curves and Test Data at In Situ Confining Stress (Sheet 2 of 4)

Modulus Reduction, Clays Pascagoula Formation, 1x In Situ Confining Stress, Corrected

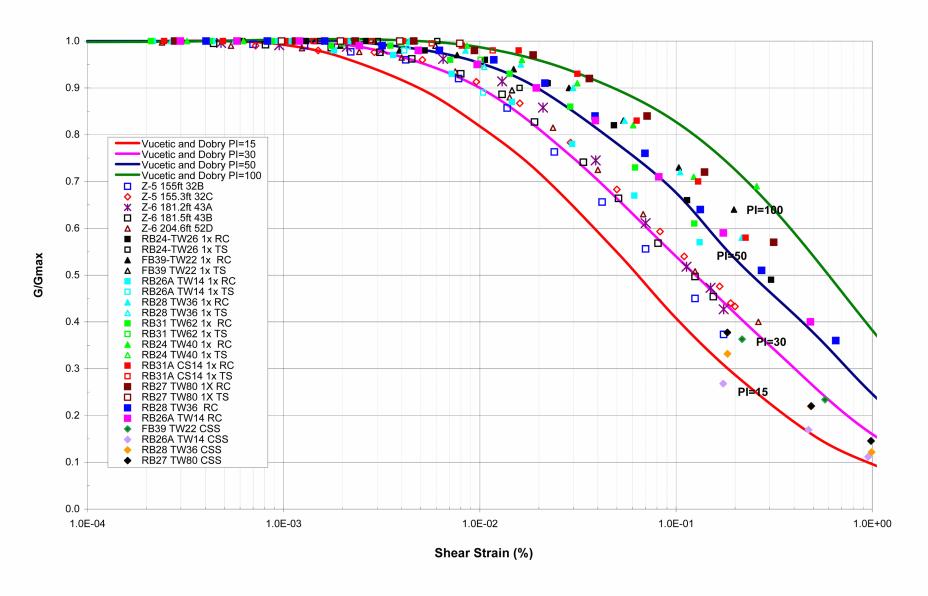


Figure 2.5.4-226. Shear Modulus Reduction Curves and Test Data at In Situ Confining Stress (Sheet 3 of 4)

Modulus Reduction Sands Pascagoula

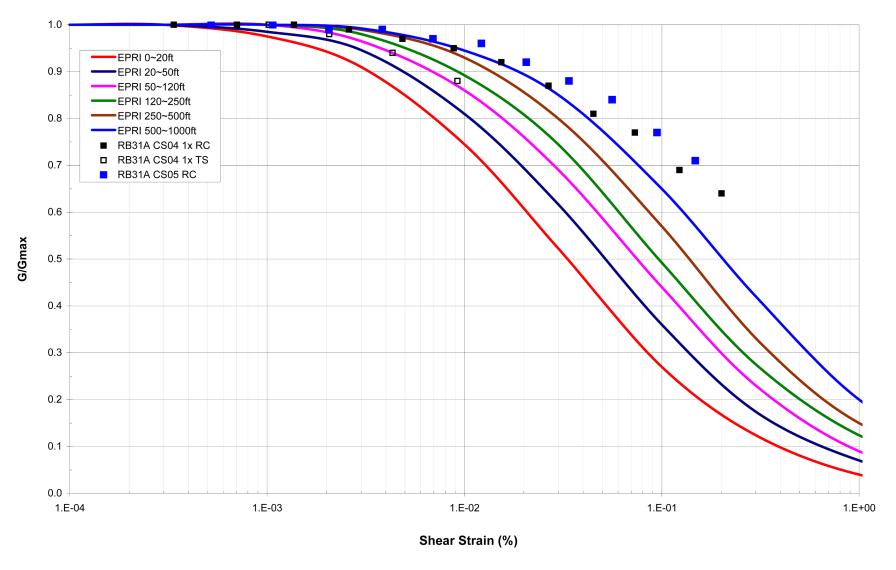


Figure 2.5.4-226. Shear Modulus Reduction Curves and Test Data at In Situ Confining Stress (Sheet 4 of 4)

Engineered Fill

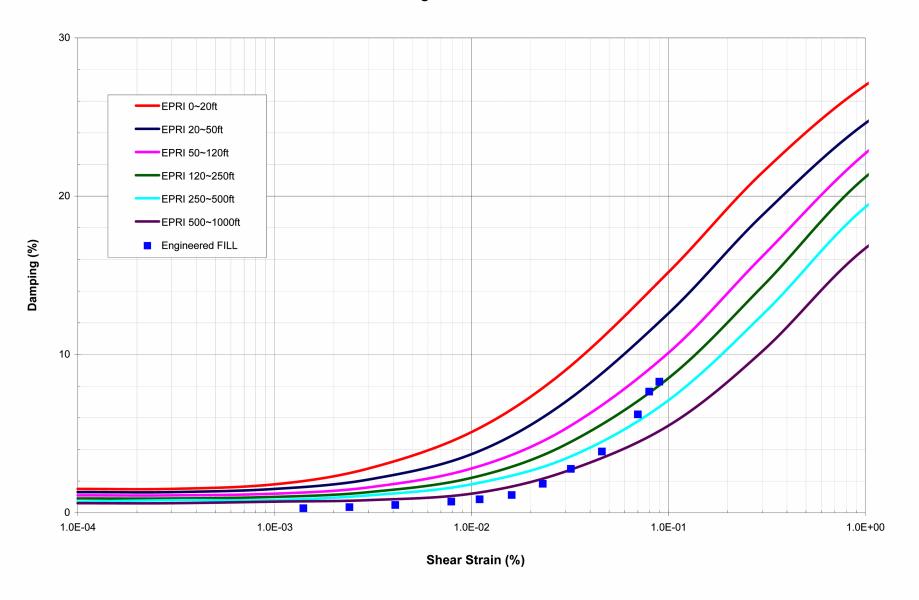


Figure 2.5.4-227. Damping Ratio Curves and Test Data at In Situ Confining Stress (Sheet 1 of 4)

Damping Curve Sands Lower Citronelle, 1x In Situ Confining Stress

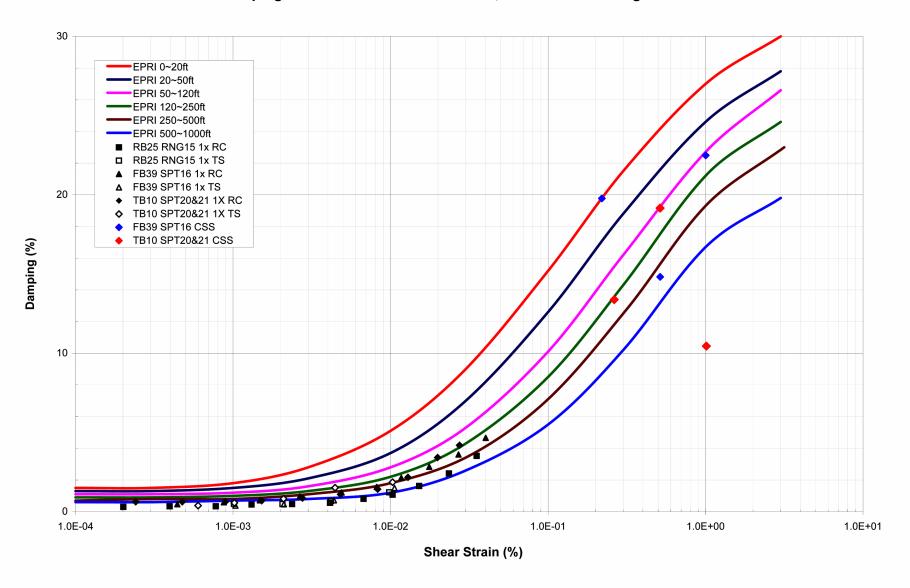


Figure 2.5.4-227. Damping Ratio Curves and Test Data at In Situ Confining Stress (Sheet 2 of 4)

Damping Curve Clays Pascagoula Formation, 1x In Situ Confining Stress, Corrected

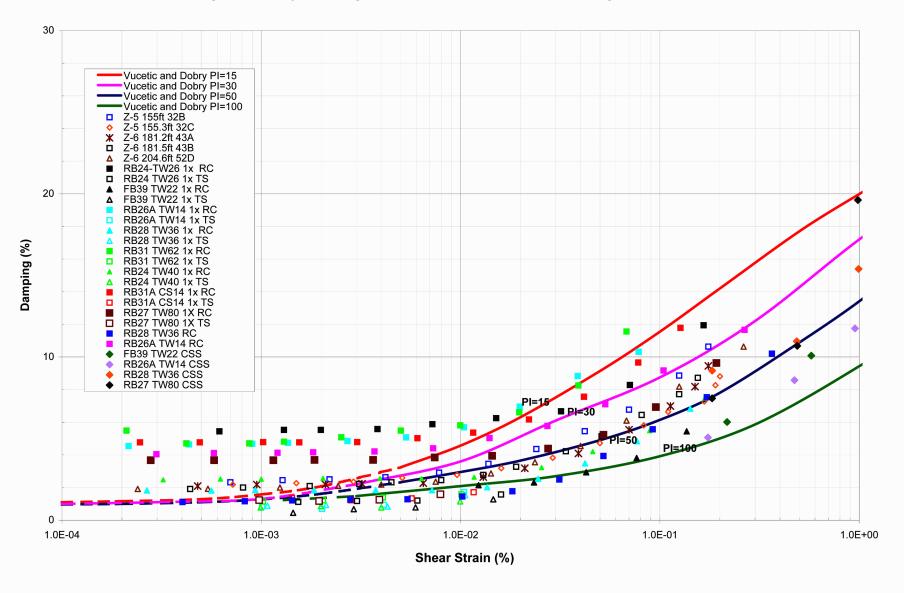


Figure 2.5.4-227. Damping Ratio Curves and Test Data at In Situ Confining Stress (Sheet 3 of 4)

Pascagoula Sands

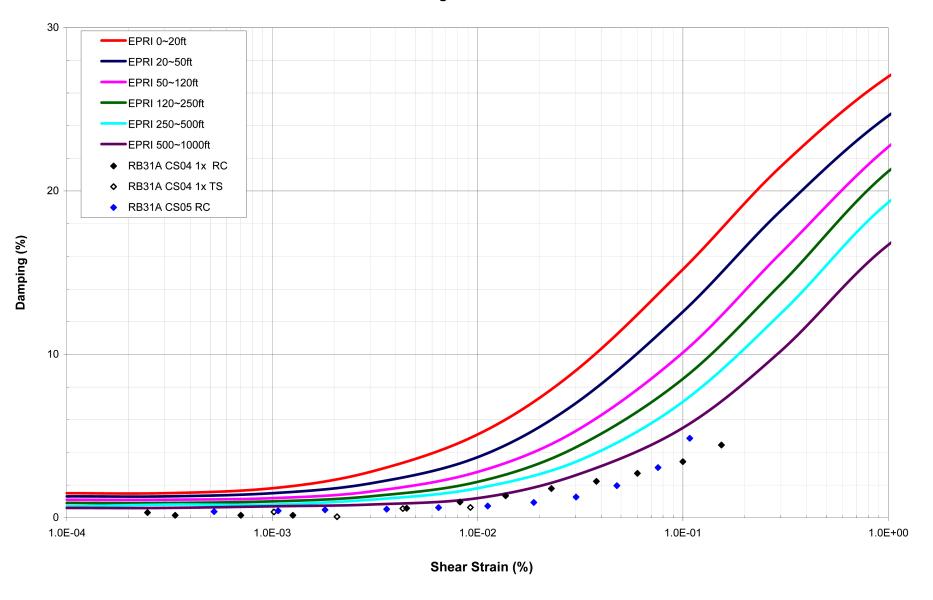


Figure 2.5.4-227. Damping Ratio Curves and Test Data at In Situ Confining Stress (Sheet 4 of 4)

Modulus Reduction Sands Lower Citronelle, 4x In Situ Confining Stress

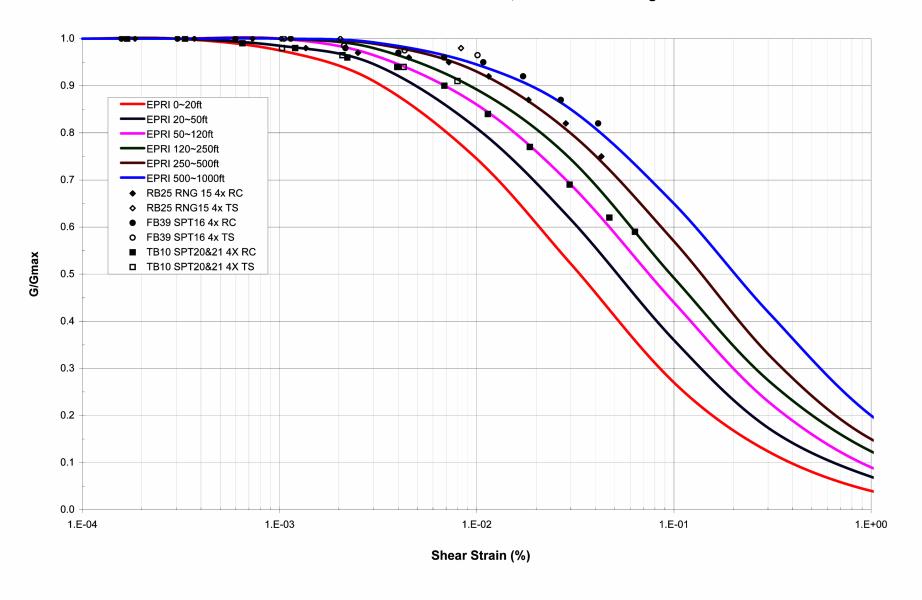


Figure 2.5.4-228. Shear Modulus Reduction Curves and RCTS Data at Four Times Confining Stress Revision 0 (Sheet 1 of 2)

Modulus Reduction, Clays Pascagoula Formation, 4x In Situ Confining Stress, Corrected

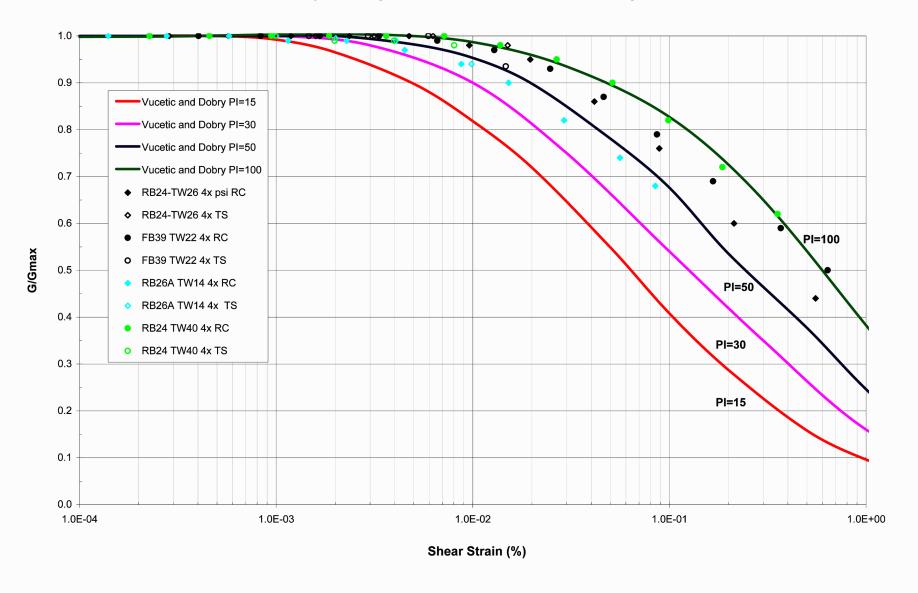


Figure 2.5.4-228. Shear Modulus Reduction Curves and RCTS Data at Four Times Confining Stress Revision 0 (Sheet 2 of 2)

Damping Curve Sands Lower Citronelle, 4x In Situ Confining Stress

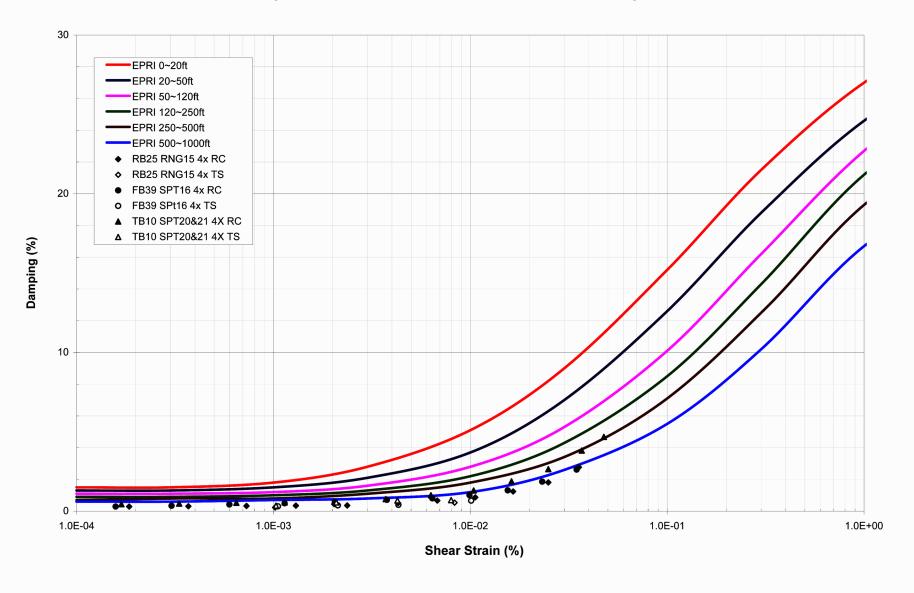


Figure 2.5.4-229. Damping Ratio Curves and RCTS Data at Four Times Confining Stress (Sheet 1 of 2)

Damping Curve, Clays Pascagoula, 4x In Situ Confining Stress, Corrected

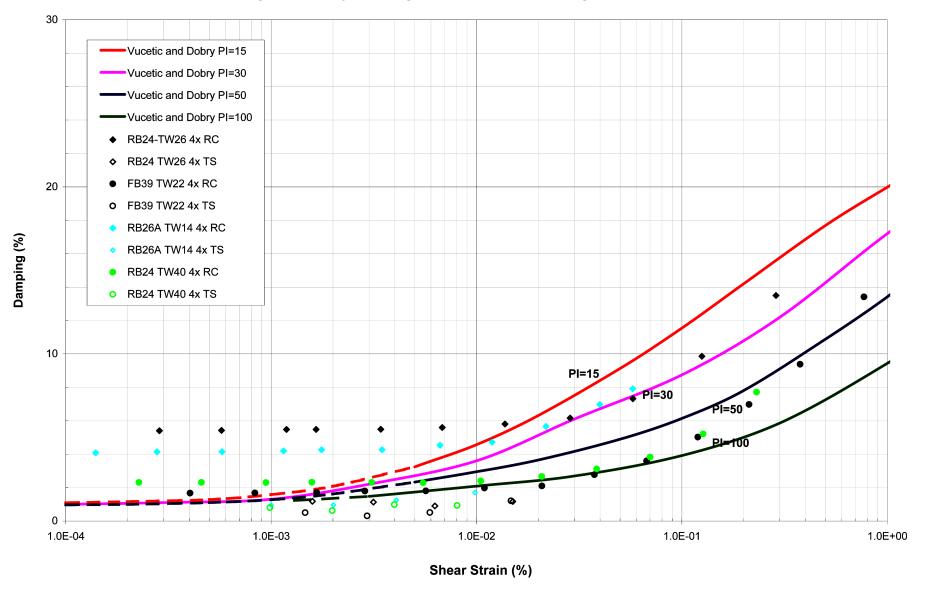


Figure 2.5.4-229. Damping Ratio Curves and RCTS Data at Four Times Confining Stress (Sheet 2 of 2)

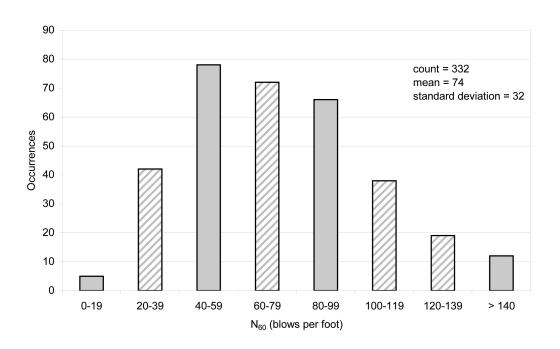


Figure 2.5.4-230. Histogram of N₆₀ Values, Cohesionless Soils, Lower Citronelle