Unconfined Compression Test

Test Data Sheet

Project: R-0623 NC 24/27 Troy Bypass
F&R Project No.: 66N-0209

Boring No.: Sta. 162+00 -L- 3' Rt.
Sample ID: RS - 4
Depth, ft.: 39.17' - 39.5'

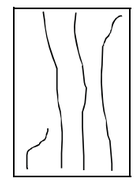
Specimen Description: Blueish gray, metavolcanic (felsic) tuff

Specimen Conditions	
Diameter (in.)	1.87
Height (in.)	3.96
Area (in^2)	2.74
Unit Wt. (pcf)	160.9

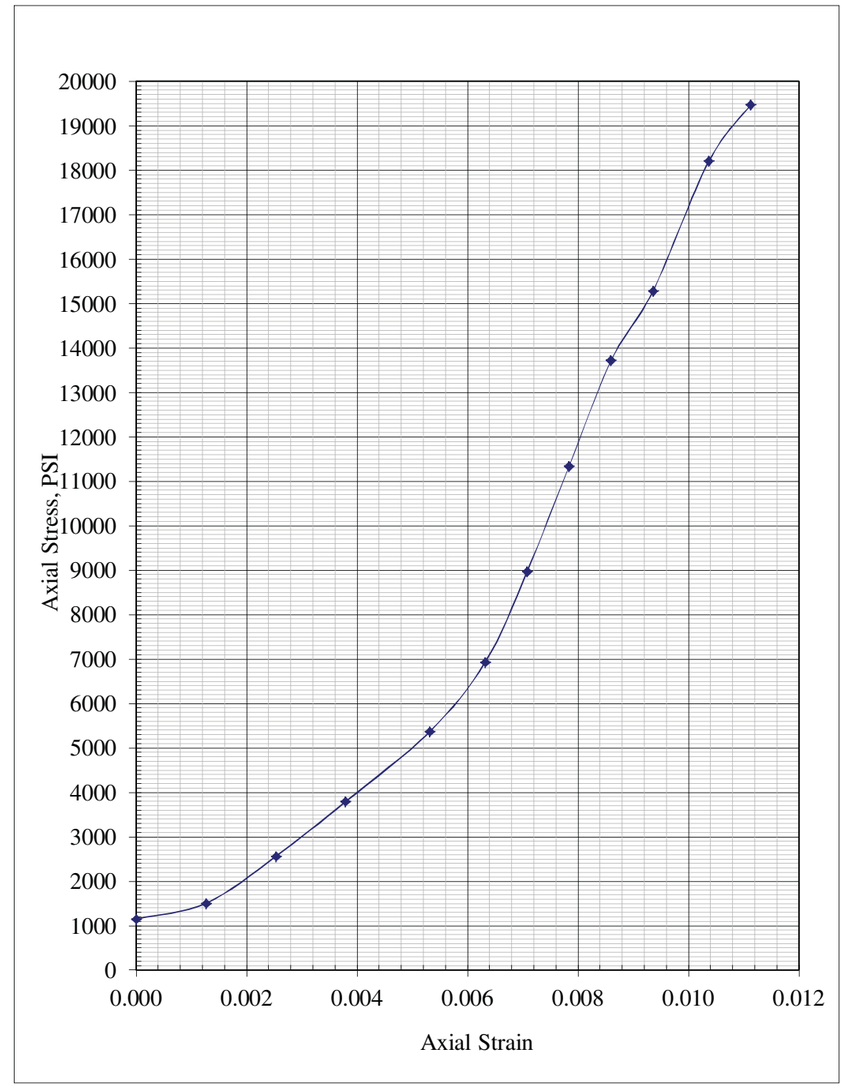
Shear Testing Conditions	
Loading Rate (%/min):	0.02 in/min.

Youngs Modulus (average): 695.6 ksi

Failure Sketch



Reading No.	Dial Guage Reading (in.)	Axial Load (lbs)	Total Axial Deformation (in.)	Axial Strain	Corrected Area[1] (in^2)	Axial Stress (psi)	Axial Stress (Kpa)
1	0.000	3152	0.000	0.0000	2.74	1149.66	7926.60
2	0.005	4120	0.005	0.0013	2.74	1502.70	10360.78
3	0.010	7020	0.010	0.0025	2.74	2560.40	17653.34
4	0.015	10400	0.015	0.0038	2.74	3793.14	26152.77
5	0.021	14700	0.021	0.0053	2.74	5361.37	36965.37
6	0.025	19000	0.025	0.0063	2.74	6929.59	47777.88
7	0.028	24600	0.028	0.0071	2.74	8971.93	61859.32
8	0.031	31100	0.031	0.0078	2.74	11342.48	78203.67
9	0.034	37600	0.034	0.0086	2.74	13712.99	94547.77
10	0.037	41900	0.037	0.0094	2.74	15281.11	105359.61
11	0.041	49900	0.041	0.0104	2.74	18198.56	125474.73
12	0.044	53385	0.044	0.0111	2.74	19469.40	134236.83



Notes: 1. Right Cylinder Correction Method