Unconfined Compression Test

Test Data Sheet

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

Boring No.: Sta. 149+00_LT
Sample ID: RS - 2
Depth, ft.: 15.9' to 16.6'

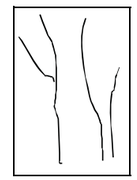
Specimen Description: Pink, light gray, green, and yellow, metavolcanic (felsic) tuff

Specimen Conditions	
Diameter (in.)	1.87
Height (in.)	4.01
Area (in^2)	2.74
Unit Wt. (pcf)	160.2

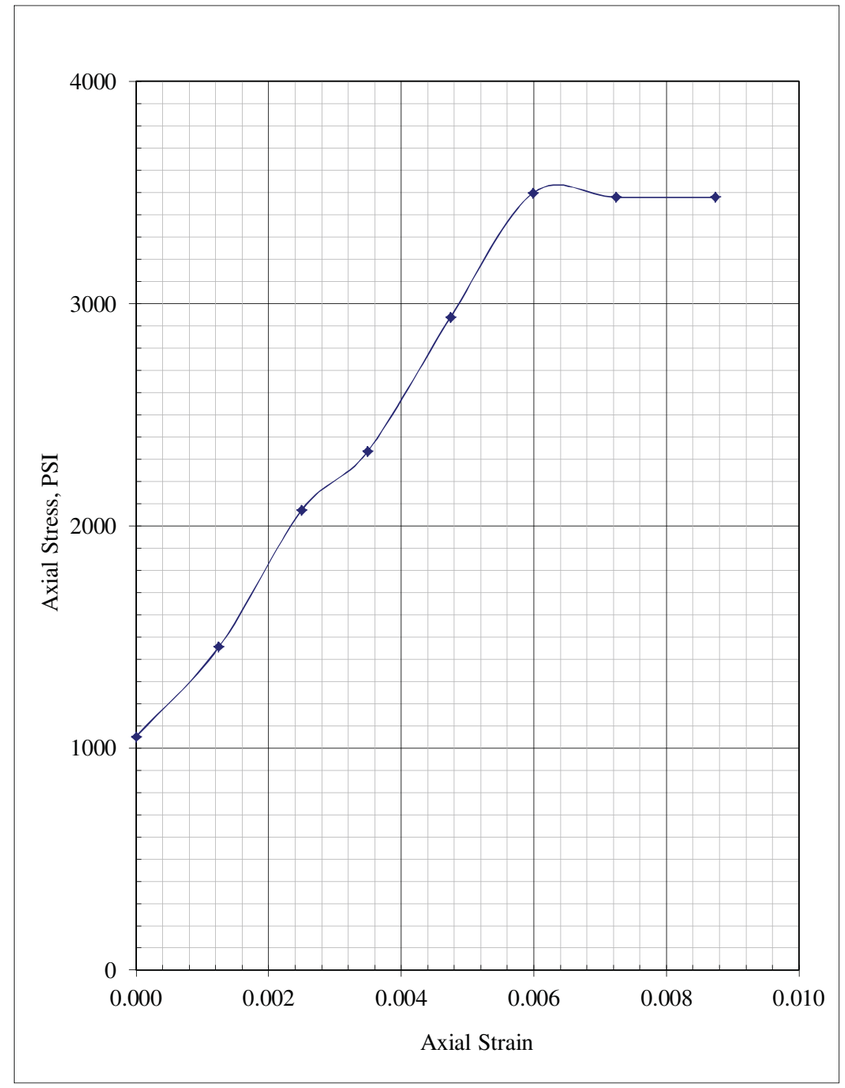
Shear Testing Conditions	
Loading Rate (%/min):	0.02 in/min.

Youngs Modulus (average): 2.84 x 10^6 ksf

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	2875	0.000	0.0000	2.74	1050.87	7245.51
2	0.005	3980	0.005	0.0012	2.74	1454.75	10030.18
3	0.010	5660	0.010	0.0025	2.74	2068.80	14263.85
4	0.014	6387	0.014	0.0035	2.74	2334.50	16095.81
5	0.019	8040	0.019	0.0047	2.74	2938.65	20261.27
6	0.024	9570	0.024	0.0060	2.74	3497.82	24116.66
7	0.029	9517	0.029	0.0072	2.74	3478.41	23982.80
8	0.035	9517	0.035	0.0087	2.74	3478.36	23982.44



Notes: 1. Right Cylinder Correction Method