



Angelo State University

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Triaxial Compression Test (Specimen Data)

Client: ROSCOE IncProject #: 3341Project Title: Red ArroyoTest performed by: W KitchTest Date: 3/21/2020 - 4/12/2020

Checked by: _____

Boring No.: NA Sample/Specimen No.: 1Sample Depth: NASoil Classification: SM Silty Sand, Lab CompactedType of test: CUConfining Stress: 20 lb/in²Test no.: 1

Before test

After test

	Specimen		Trimmings		Specimen	
Tare no.	<u>—</u>		<u>522</u>		<u>Day 1</u>	
Mass of tare	<u>—</u>	g	<u>13.07</u>	g	<u>533.26</u>	g
Mass of Soil+Can (wet)	<u>1162.87</u>	g	<u>38.23</u>	g	<u>1700.24</u>	g
Mass of Soil+Can (dry)	<u>1033.40</u>	g	<u>35.55</u>	g	<u>1566.66</u>	g
Mass water (W_w)	W_{w0}	g		g	W_{wf}	g
Mass dry soil (W_s)		g		g		g
Moisture Content (w)		%	w_0	%	w_f	%

Initial Specimen Conditions

Sample Diameter		Sample Height		Sample Area	
Top	<u>2.890</u> in	1	<u>4.989</u> in	<u>6.545</u> in ²	
Middle	<u>2.889</u> in	2	<u>4.988</u> in	Sample Volume	
Bottom	<u>2.886</u> in	3	<u>4.972</u> in		in ³
Average	<u>2.887</u> in	Average	<u>4.983</u> in		

Sp gr of solids (G_s)		Void ratio (e)	
Volume of solids (V_s)	in ³	Saturation (S)	%
Piston height	<u>4.682</u> in	Dry unit weight (γ_d)	lb/ft ³

Specimen Conditions After Consolidation

Piston height	<u>4.657</u> in	Volume ($H_c \times A_c$)	in ³
Change in height (ΔH_o)	<u>0.025</u> in	Void Ratio [$(V_c - V_s)/V_s$]	
Height (H_c)	<u>4.958</u> in	Saturation	%
Volume change (ΔV_o)	in ³		
Area (A_c)	in ²		

Specimen Conditions After Test

Change in height (ΔH)	<u>0.58</u> in	Volume ($H_f \times A_f$)	in ³
Height (H_f)	in	Void Ratio [$(V_f - V_s)/V_s$]	
Volume change (ΔV_f)	in ³	Saturation	%
Area (A_f)	in ²		

Triaxial Test Consolidation

Client:	ROSCOE Inc.		Project #:	3341	
Project Title:	Red Armyo		Test performed by:	W. C. H. H.	
Test Date:	3/21/2020 - 4/12/2020		Checked by:		
Boring No.:	NA	Sample No.:	1	Sample Depth:	NA
Soil Classification:	SM Silty Sand, Lab Compacted				
Cell Pressure	70.1	Back Pressure	50.1	Confining Stress	20
		Initial Sample Height	4.682		
		Final Sample Height	4.657		

[illegible]

