



**SOIL MECHANIC LABORATORY**  
**FACULTY OF CIVIL ENGINEERING AND PLANING**  
**INDONESIAN ISLAMIC UNIVERSITY**  
**Jl. Kaliurang KM. 14,4 Telp. (0274) 895042 Yogyakarta 55584.**

## UJI GESER LANGSUNG UU

Proyek : Tugas Akhir  
 Lokasi Tanah : Tembilahan, Riau  
 Kode sampel : Tanah Gambut + Portland Cement 7% (Sampel 2)  
 Dikerjakan : Aldesra Azria Lisananda  
 Tanggal : 21 Mei 2018

Data Sampel	
Diameter (cm)	6
Luas (cm <sup>2</sup> )	28.27433
Tinggi (cm)	2
Volume (cm <sup>3</sup> )	56.54867
Berat cincin (gr)	49.41

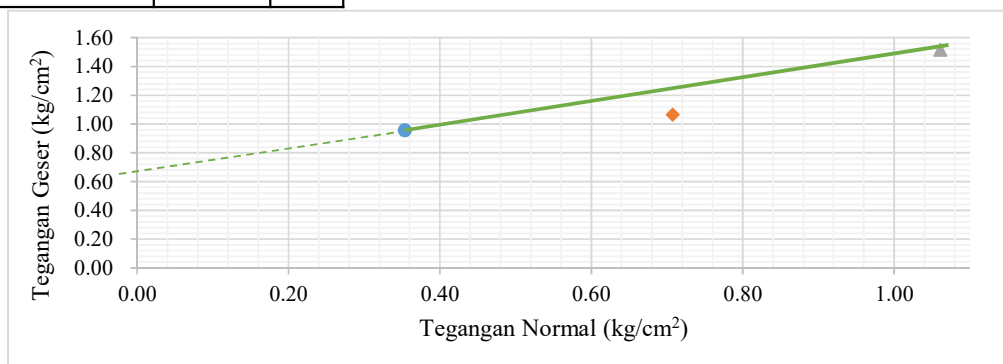
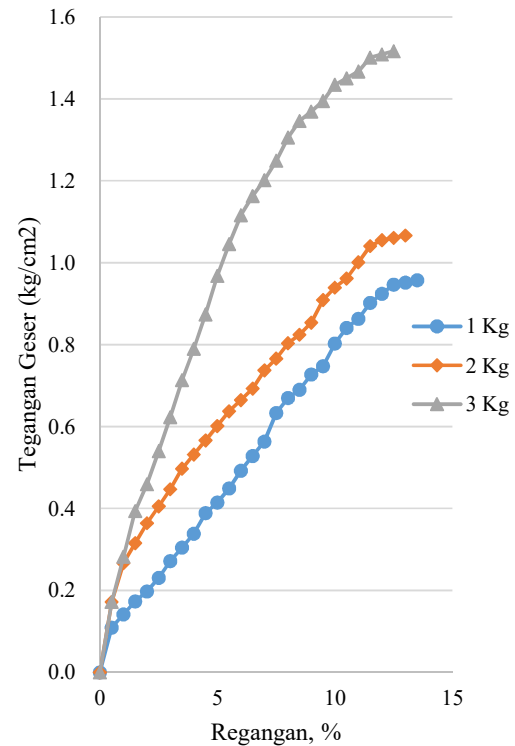
kalibrasi ring = 0.44 kg/div

Kadar air			
Berat Cawan, gr	5.59	13	5.69
Berat Cawan + Tanah Basah, gr	18.45	26.54	15.4
Berat Cawan + Tanah Kering, gr	13.09	20.89	11.35
Kadar Air, %	71.467	71.6096	71.5548
Kadar Air Rata-rata, %	71.544		

Berat tanah + ring, gr	98.08	98.1	98.13
Berat volume (gr/cm <sup>3</sup> )	0.8607	0.86103	0.86156
Berat volume kering (gr/cm <sup>3</sup> )	0.5019	0.50174	0.50221

Tegangan Normal $\sigma_n$ (kg/cm <sup>2</sup> )	0.3537	0.70736	1.06103
Tegangan geser maks $\tau$ (kg/cm <sup>2</sup> )	0.9571	1.06652	1.51665

Sudut geser $\phi$	38.3440	°
Kohesi	0.6774	kg/cm <sup>2</sup>



Mengetahui,  
 Kepala lab. Mekanika Tanah  
 Universitas Islam Indonesia

( Ir. Akhmad Marzuko, M.T. )

Yogyakarta, 13 Agustus 2018  
 Peneliti,

( Aldesra Azria Lisananda )