



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% + *Gypsum* 15% (Sampel 2)
 Dikerjakan : Aldesra Azria Lisananda
 Tanggal : 2 Juli 2018

Data Sampel	
Diameter (cm)	6
Luas (cm ²)	28.27433
Tinggi (cm)	2
Volume (cm ³)	56.54867
Berat cincin (gr)	43.07

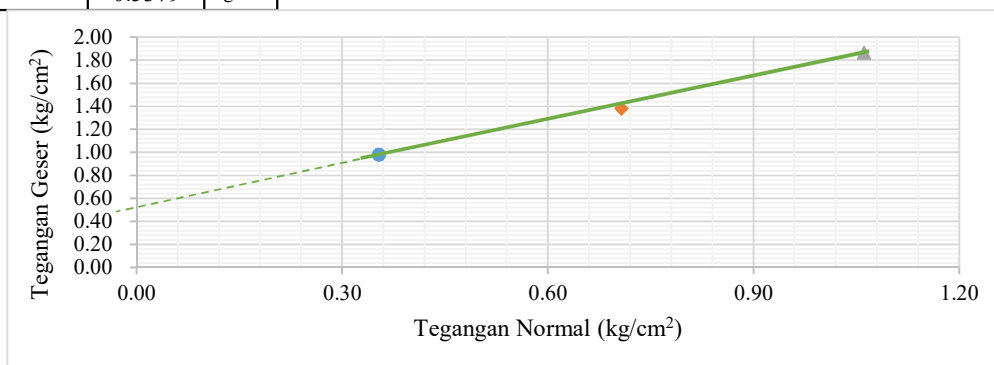
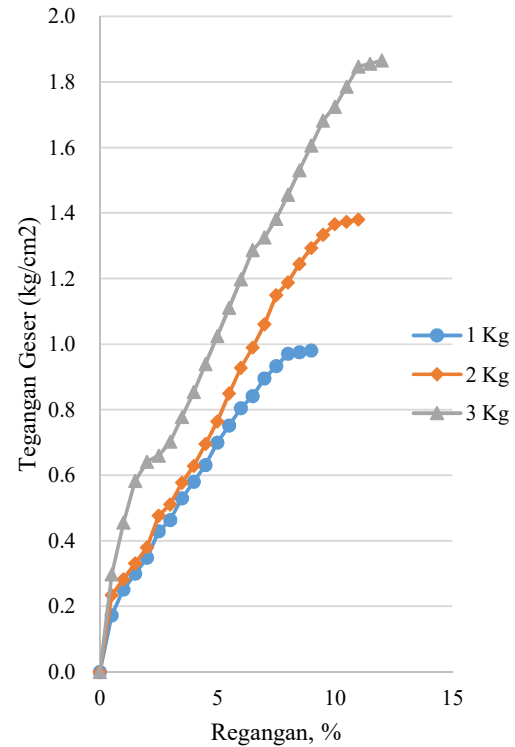
kalibrasi ring = 0.44 kg/div

Kadar air			
Berat Cawan, gr	9.25	5.67	5.59
Berat Cawan + Tanah Basah, gr	18.02	14.27	12.26
Berat Cawan + Tanah Kering, gr	14.4	10.71	9.51
Kadar Air, %	70.291	70.6349	70.1531
Kadar Air Rata-rata, %	70.360		

Berat tanah + ring, gr	92.03	92.79	92.88
Berat volume (gr/cm ³)	0.8658	0.87924	0.88083
Berat volume kering (gr/cm ³)	0.5084	0.51528	0.51767

Tegangan Normal σ_n (kg/cm ²)	0.3537	0.70736	1.06103
Tegangan geser maks τ (kg/cm ²)	0.9806	1.38058	1.86609

Sudut geser ϕ	51.3803	°
Kohesi	0.5379	kg/cm ²



Mengetahui,
 Kepala lab. Mekanika Tanah
 Universitas Islam Indonesia

(Ir. Akhmad Marzuko, M.T.)

Yogyakarta, 13 Agustus 2018
 Peneliti,

(Aldesra Azria Lisananda)