



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* 12% (Sampel 1)
 Dikerjakan : Aldesra Azria Lisananda
 Tanggal : 21 Mei 2018

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

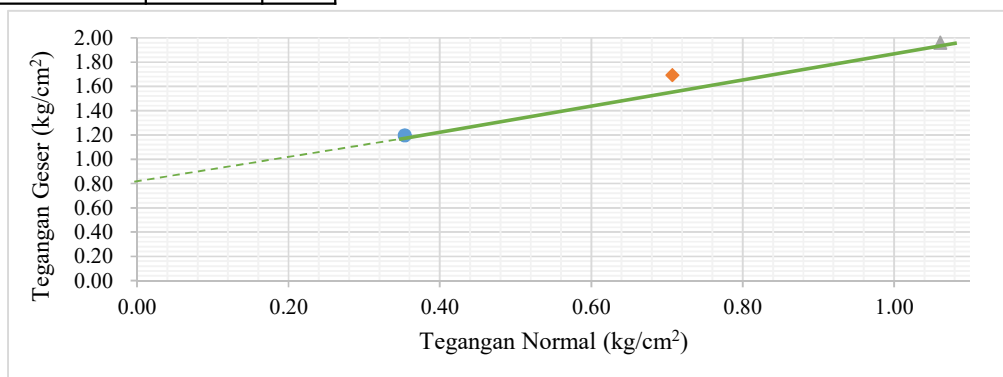
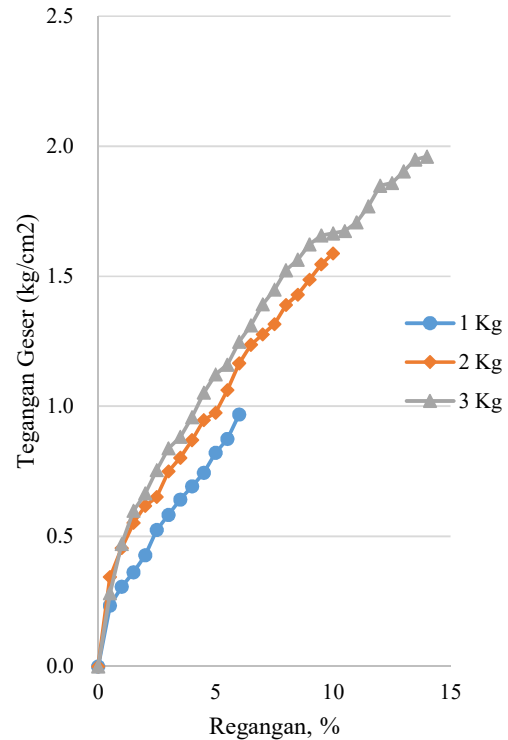
kalibrasi ring = 0.44 kg/div

Kadar air			
Berat Cawan, gr	5.67	5.6	9.19
Berat Cawan + Tanah Basah, gr	16.62	16.72	17.54
Berat Cawan + Tanah Kering, gr	12.1	12.15	14.1
Kadar Air, %	70.295	69.771	70.0611
Kadar Air Rata-rata, %	70.043		

Berat tanah + ring, gr	92.57	92.75	92.01
Berat volume (gr/cm ³)	0.8754	0.87854	0.86545
Berat volume kering (gr/cm ³)	0.514	0.51748	0.5089

Tegangan Normal σ_n (kg/cm ²)	0.3537	0.70736	1.06103
Tegangan geser maks τ (kg/cm ²)	1.1956	1.69121	1.96047

Sudut geser ϕ	47.2381	°
Kohesi	0.8131	kg/cm ²



Mengetahui,
 Kepala lab. Mekanika Tanah
 Universitas Islam Indonesia

(Ir. Akhmad Marzuko, M.T.)

Yogyakarta, 13 Agustus 2018
 Peneliti,

(Aldesra Azria Lisananda)