



**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 + 10% Gypsum (Sampel 1)  
 Dikerjakan : Aldesra Azria Lisananda  
 Tanggal : 22 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

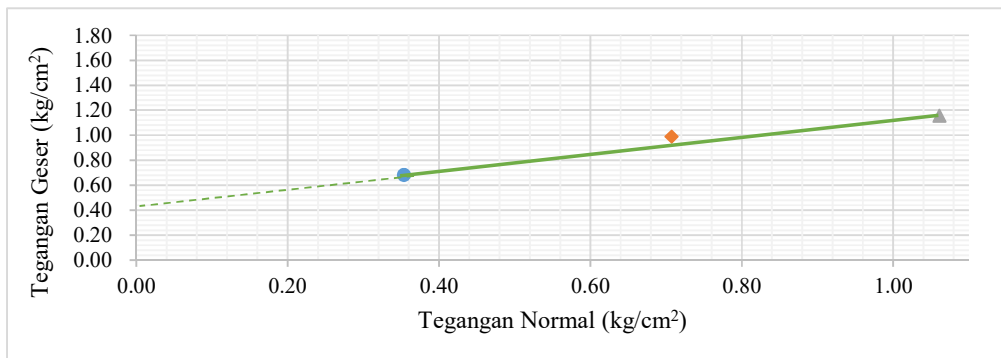
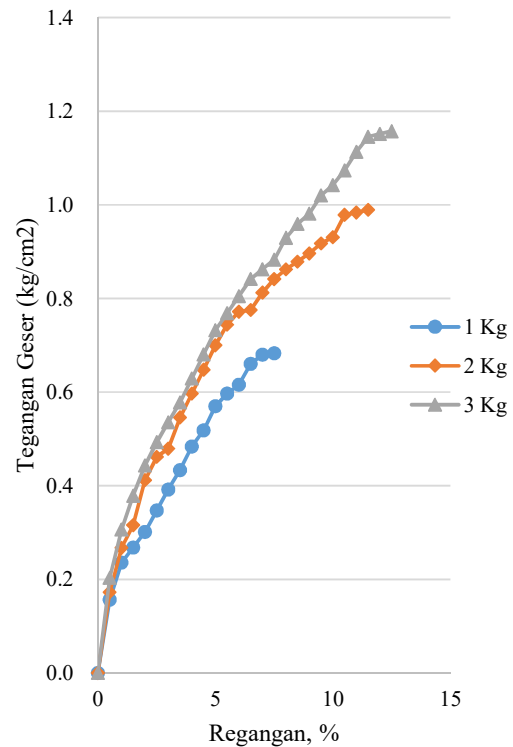
### Kadar air

Berat Cawan, gr	9	8.82	13.49
Berat Cawan + Tanah Basah, gr	19.49	16.27	22.08
Berat Cawan + Tanah Kering, gr	15.19	13.19	18.57
Kadar Air, %	69.467	70.4805	69.0945
Kadar Air Rata-rata, %	69.681		

Berat tanah + ring, gr	97.59	97.92	98.05
Berat volume (gr/cm <sup>3</sup> )	0.852	0.85785	0.86014
Berat volume kering (gr/cm <sup>3</sup> )	0.5028	0.50319	0.50868

Tegangan Normal $\sigma_n$ (kg/cm <sup>2</sup> )	0.3537	0.70736	1.06103
Tegangan geser maks $\tau$ (kg/cm <sup>2</sup> )	0.683	0.98884	1.15722

Sudut geser $\phi$	33.8393	°
Kohesi	0.4459	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 )