



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 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)	49.41

kalibrasi ring = 0.44 kg/div

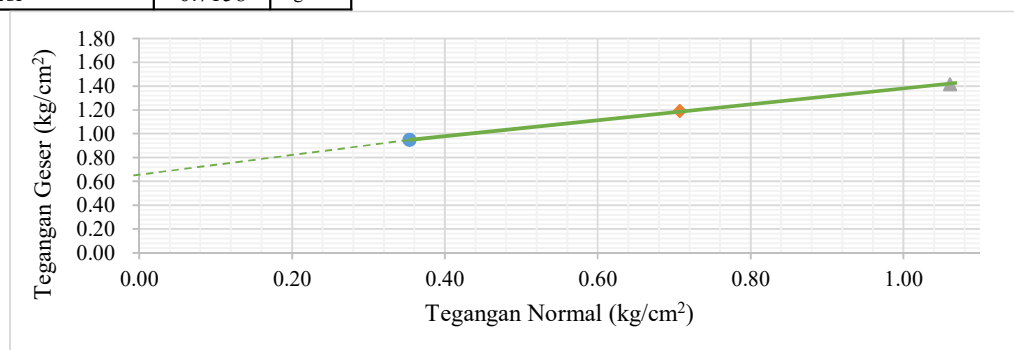
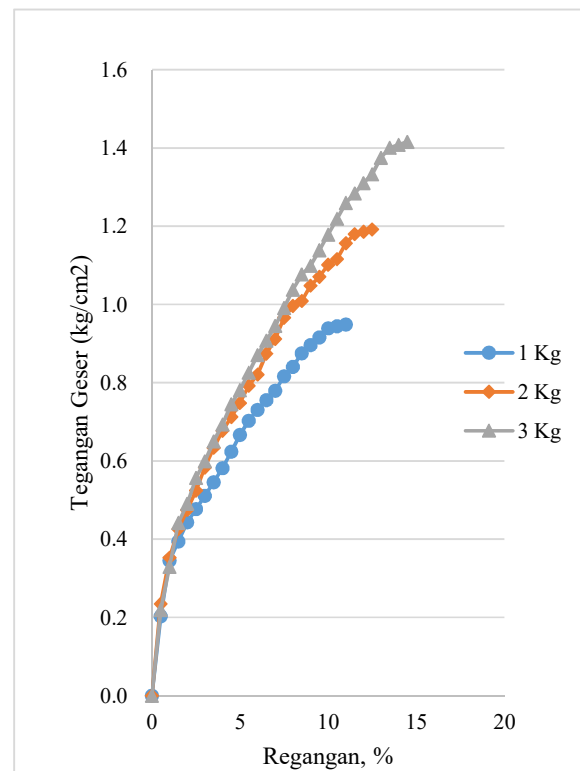
Kadar air

Berat Cawan, gr	12.87	6.64	7.63
Berat Cawan + Tanah Basah, gr	25.56	20.52	19.41
Berat Cawan + Tanah Kering, gr	20.21	14.68	14.49
Kadar Air, %	72.8883	72.6368	71.7201
Kadar Air Rata-rata, %	72.415		

Berat tanah + ring, gr	98.13	98.05	98.15
Berat volume (gr/cm ³)	0.86156	0.86014	0.86191
Berat volume kering (gr/cm ³)	0.49833	0.49824	0.50193

Tegangan Normal σ_n (kg/cm ²)	0.35368	0.70736	1.06103
Tegangan geser maks τ (kg/cm ²)	0.94915	1.19228	1.41582

Sudut geser ϕ	33.4142	°
Kohesi	0.7158	kg/cm ²



Mengetahui,
 Kepala lab. Mekanika Tanah
 Universitas Islam Indonesia

(Ir. Akhmad Marzuko, M.T.)

Yogyakarta, 13 Agustus 2018
 Peneliti,

(Aldesra Azria Lisananda)