



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

**UJI GESEN LANGSUNG UU**

Proyek	:	Tugas Akhir
Lokasi Tanah	:	Tembilahan, Riau
Kode sampel	:	Tanah Gambut Asli (Sampel 2)
Dikerjakan	:	Aldesra Azria Lisananda
Tanggal	:	9 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)	43.07	

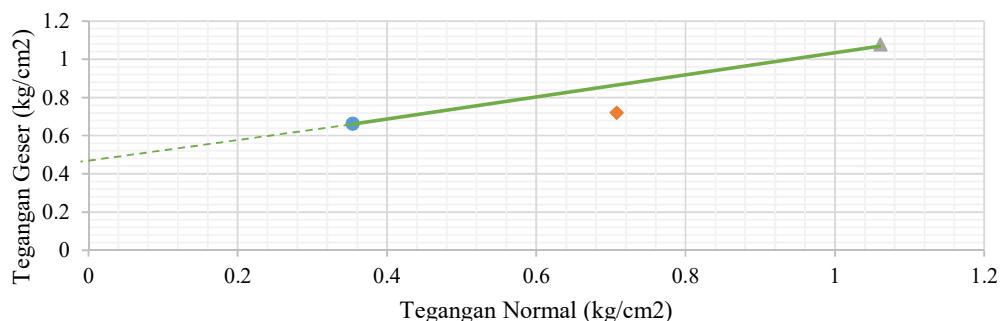
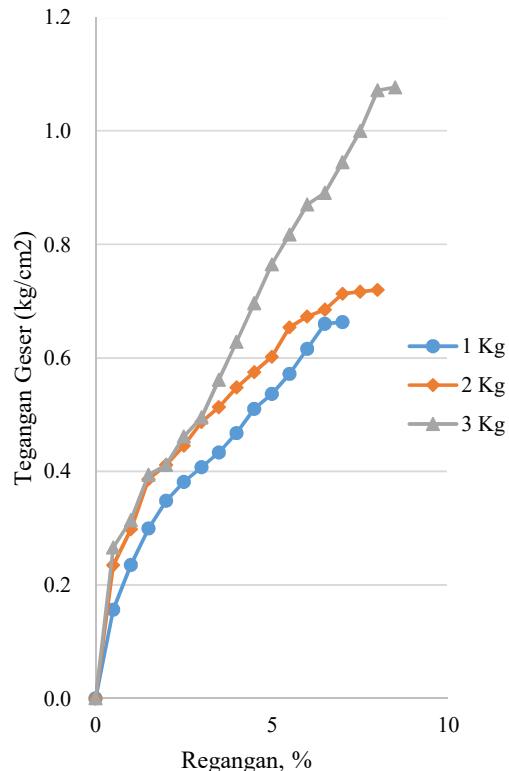
kalibrasi ring = 0.44 kg/div

Kadar air			
Berat Cawan, gr	5.69	5.62	6.64
Berat Cawan + Tanah Basah,gr	19.15	19.09	19
Berat Cawan + Tanah Kering, gr	8.15	8.07	8.88
Kadar Air, %	447.15	449.796	451.786
Kadar Air Rata-rata, %	449.579		

Berat tanah + ring, gr	105.93	105.22	105.43
Berat volume (gr/cm <sup>3</sup> )	1.1116	1.09905	1.10277
Berat volume kering(gr/cm <sup>3</sup> )	0.2032	0.1999	0.19985

Tegangan Normal $\sigma_n$ (kg/cm <sup>2</sup> )	0.3537	0.70736	1.06103
Tegangan geser maks $\tau$ (kg/cm <sup>2</sup> )	0.6631	0.71982	1.07667

Sudut geser $\phi$	30.3142	°
Kohesi	0.4563	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)