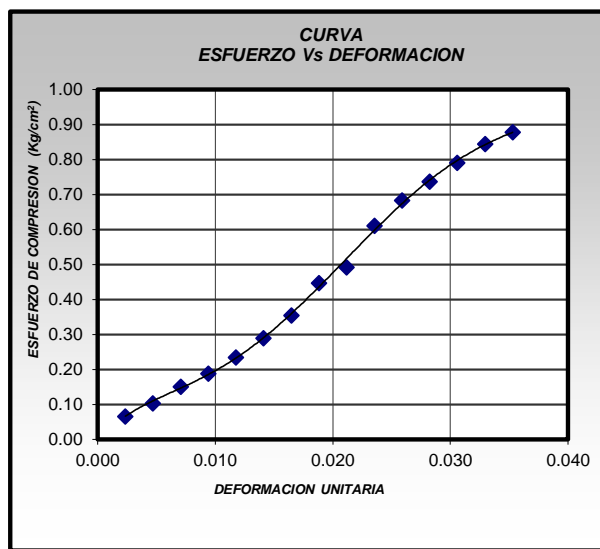


## ENSAYO DE COMPRESION INCONFINADA

<b>Obra:</b>	Escuela de Maderas	<b>Hoja 1 de 1</b>
<b>Proyecto:</b>	Estudio de Suelos	<b>Sondeo:</b> 5
<b>Localización:</b>	Pereira	<b>Profundidad:</b> 3,0-3,5 m
<b>Fecha:</b>	Marzo del 2018	<b>Descripción:</b> Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.007	0.714	0.20	0.020	0.002	0.998	10.777	0.066
0.011	1.122	0.40	0.040	0.005	0.995	10.803	0.104
0.016	1.632	0.60	0.060	0.007	0.993	10.829	0.151
0.02	2.040	0.80	0.080	0.009	0.991	10.854	0.188
0.025	2.550	1.00	0.100	0.012	0.988	10.880	0.234
0.031	3.162	1.20	0.120	0.014	0.986	10.906	0.290
0.038	3.876	1.40	0.140	0.016	0.984	10.932	0.355
0.048	4.896	1.60	0.160	0.019	0.981	10.958	0.447
0.053	5.406	1.80	0.180	0.021	0.979	10.985	0.492
0.066	6.732	2.00	0.200	0.024	0.976	11.011	0.611
0.074	7.548	2.20	0.220	0.026	0.974	11.038	0.684
0.08	8.160	2.40	0.240	0.028	0.972	11.065	0.737
0.086	8.772	2.60	0.260	0.031	0.969	11.091	0.791
0.092	9.384	2.80	0.280	0.033	0.967	11.118	0.844
0.096	9.792	3.00	0.300	0.035	0.965	11.145	0.879



### Geometria de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.5  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 91.39  
 Altura Final (cm)= 8.200

### Información de la muestra

Muestra húmeda + recip (gr)= 146.54  
 Muestra seca + recip (gr)= 99.59  
 Peso recipiente (gr)=  
 % Humedad= 47.14  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.60  
 Peso unit. seco (gr/cm<sup>3</sup>)= 1.09  
 Def. Unitaria máx (%)= 3.5  
 qu (Kg/cm<sup>2</sup>)= 0.88

V°B°LABORATORIO:

ING.STELLA SANCHEZ

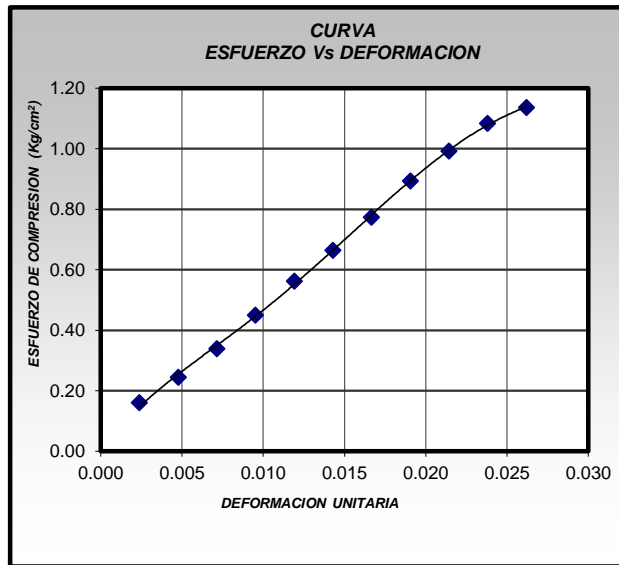
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 6  
**Profundidad:** 5,0-5,5 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.017	1.734	0.20	0.020	0.002	0.998	10.778	0.161
0.026	2.652	0.40	0.040	0.005	0.995	10.804	0.245
0.036	3.672	0.60	0.060	0.007	0.993	10.829	0.339
0.048	4.896	0.80	0.080	0.010	0.990	10.856	0.451
0.06	6.120	1.00	0.100	0.012	0.988	10.882	0.562
0.071	7.242	1.20	0.120	0.014	0.986	10.908	0.664
0.083	8.466	1.40	0.140	0.017	0.983	10.934	0.774
0.096	9.792	1.60	0.160	0.019	0.981	10.961	0.893
0.107	10.914	1.80	0.180	0.021	0.979	10.988	0.993
0.117	11.934	2.00	0.200	0.024	0.976	11.014	1.083
0.123	12.546	2.20	0.220	0.026	0.974	11.041	1.136



### Geometria de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.4  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 90.32  
 Altura Final (cm)= 8.180

### Información de la muestra

Muestra húmeda + recip (gr)= 139.12  
 Muestra seca + recip (gr)= 79.71  
 Peso recipiente (gr)=  
 % Humedad= 74.53  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.54  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.88

Def. Unitaria máx (%)= 2.6  
 qu (Kg/cm<sup>2</sup>)= 1.14

V°B°LABORATORIO:

ING.STELLA SANCHEZ

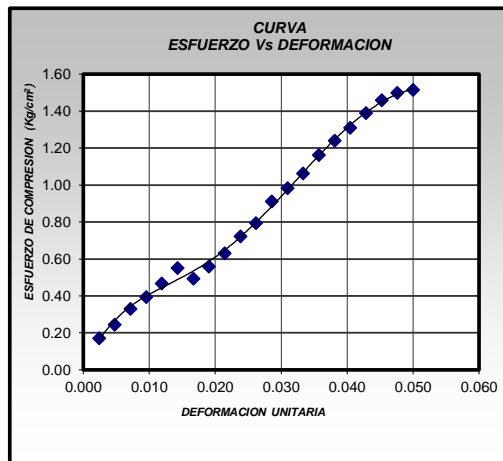
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 2  
**Profundidad:** 5,0-5,5 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.018	1.836	0.20	0.020	0.002	0.998	10.778	0.170
0.026	2.652	0.40	0.040	0.005	0.995	10.804	0.245
0.035	3.570	0.60	0.060	0.007	0.993	10.829	0.330
0.042	4.284	0.80	0.080	0.010	0.990	10.856	0.395
0.05	5.100	1.00	0.100	0.012	0.988	10.882	0.469
0.059	6.018	1.20	0.120	0.014	0.986	10.908	0.552
0.053	5.406	1.40	0.140	0.017	0.983	10.934	0.494
0.06	6.120	1.60	0.160	0.019	0.981	10.961	0.558
0.068	6.936	1.80	0.180	0.021	0.979	10.988	0.631
0.078	7.956	2.00	0.200	0.024	0.976	11.014	0.722
0.086	8.772	2.20	0.220	0.026	0.974	11.041	0.794
0.099	10.098	2.40	0.240	0.029	0.971	11.068	0.912
0.107	10.914	2.60	0.260	0.031	0.969	11.096	0.984
0.116	11.832	2.80	0.280	0.033	0.967	11.123	1.064
0.127	12.954	3.00	0.300	0.036	0.964	11.150	1.162
0.136	13.872	3.20	0.320	0.038	0.962	11.178	1.241
0.144	14.688	3.40	0.340	0.040	0.960	11.206	1.311
0.153	15.606	3.60	0.360	0.043	0.957	11.234	1.389
0.161	16.422	3.80	0.380	0.045	0.955	11.262	1.458
0.166	16.932	4.00	0.400	0.048	0.952	11.290	1.500
0.168	17.136	4.20	0.420	0.050	0.950	11.318	1.514



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Inic (cm)= 8.4  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 90.32  
 Altura Final (cm)= 7.980

### Información de la muestra

Muestra húmeda + recip (gr)= 155.72  
 Muestra seca + recip (gr)= 94.53  
 Peso recipiente (gr)=  
 % Humedad= 64.73  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.72  
 Peso unit. seco (gr/cm<sup>3</sup>)= 1.05

Def. Unitaria máx (%)= 5.0  
 qu (Kg/cm<sup>2</sup>)= 1.51

V°B°LABORATORIO:

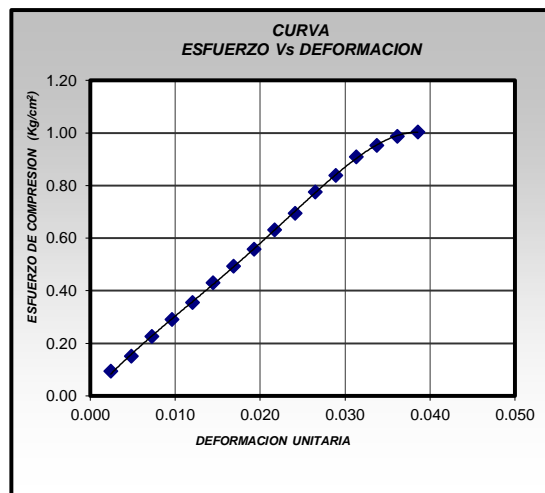
ING. STELLA SANCHEZ

## ENSAYO DE COMPRESION INCONFINADA

<b>Obra:</b>	Escuela de Maderas	<b>Hoja 1 de 1</b>
<b>Proyecto:</b>	Estudio de Suelos	<b>Sondeo:</b> 2
<b>Localización:</b>	Pereira	<b>Profundidad:</b> 2,0-2,5 m
<b>Fecha:</b>	Marzo del 2018	<b>Descripción:</b> Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.010	1.020	0.20	0.020	0.002	0.998	10.778	0.095
0.016	1.632	0.40	0.040	0.005	0.995	10.804	0.151
0.024	2.448	0.60	0.060	0.007	0.993	10.830	0.226
0.031	3.162	0.80	0.080	0.010	0.990	10.857	0.291
0.038	3.876	1.00	0.100	0.012	0.988	10.883	0.356
0.046	4.692	1.20	0.120	0.014	0.986	10.910	0.430
0.053	5.406	1.40	0.140	0.017	0.983	10.937	0.494
0.06	6.120	1.60	0.160	0.019	0.981	10.963	0.558
0.068	6.936	1.80	0.180	0.022	0.978	10.990	0.631
0.075	7.650	2.00	0.200	0.024	0.976	11.018	0.694
0.084	8.568	2.20	0.220	0.027	0.973	11.045	0.776
0.091	9.282	2.40	0.240	0.029	0.971	11.072	0.838
0.099	10.098	2.60	0.260	0.031	0.969	11.100	0.910
0.104	10.608	2.80	0.280	0.034	0.966	11.128	0.953
0.108	11.016	3.00	0.300	0.036	0.964	11.155	0.988
0.11	11.220	3.20	0.320	0.039	0.961	11.183	1.003



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.3  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 89.24  
 Altura Final (cm)= 7.980

### Información de la muestra

Muestra húmeda + recip (gr)= 142.84  
 Muestra seca + recip (gr)= 83.04  
 Peso recipiente (gr)=  
 % Humedad= 72.01  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.60  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.93

Def. Unitaria máx (%)= 3.9  
 qu (Kg/cm<sup>2</sup>)= 1.00

VºBºLABORATORIO: \_\_\_\_\_

ING.STELLA SANCHEZ

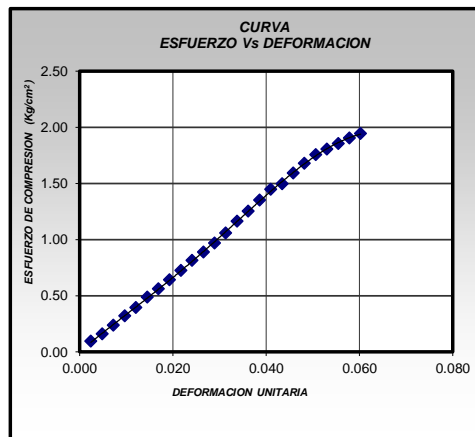
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 1  
**Profundidad:** 3,0-3,5 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.010	1.020	0.20	0.020	0.002	0.998	10.778	0.095
0.017	1.734	0.40	0.040	0.005	0.995	10.804	0.160
0.025	2.550	0.60	0.060	0.007	0.993	10.830	0.235
0.034	3.468	0.80	0.080	0.010	0.990	10.857	0.319
0.042	4.284	1.00	0.100	0.012	0.988	10.883	0.394
0.052	5.304	1.20	0.120	0.014	0.986	10.910	0.486
0.06	6.120	1.40	0.140	0.017	0.983	10.937	0.560
0.069	7.038	1.60	0.160	0.019	0.981	10.963	0.642
0.078	7.956	1.80	0.180	0.022	0.978	10.990	0.724
0.088	8.976	2.00	0.200	0.024	0.976	11.018	0.815
0.096	9.792	2.20	0.220	0.027	0.973	11.045	0.887
0.105	10.710	2.40	0.240	0.029	0.971	11.072	0.967
0.115	11.730	2.60	0.260	0.031	0.969	11.100	1.057
0.127	12.954	2.80	0.280	0.034	0.966	11.128	1.164
0.137	13.974	3.00	0.300	0.036	0.964	11.155	1.253
0.148	15.096	3.20	0.320	0.039	0.961	11.183	1.350
0.159	16.218	3.40	0.340	0.041	0.959	11.211	1.447
0.165	16.830	3.60	0.360	0.043	0.957	11.240	1.497
0.176	17.952	3.80	0.380	0.046	0.954	11.268	1.593
0.186	18.972	4.00	0.400	0.048	0.952	11.297	1.679
0.195	19.890	4.20	0.420	0.051	0.949	11.325	1.756
0.201	20.502	4.40	0.440	0.053	0.947	11.354	1.806
0.207	21.114	4.60	0.460	0.055	0.945	11.383	1.855
0.213	21.726	4.80	0.480	0.058	0.942	11.412	1.904
0.218	22.236	5.00	0.500	0.060	0.940	11.441	1.943



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.3  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 89.24  
 Altura Final (cm)= 7.800

### Información de la muestra

Muestra húmeda + recip (gr)= 161.04  
 Muestra seca + recip (gr)= 103.61  
 Peso recipiente (gr)=  
 % Humedad= 55.43  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.80  
 Peso unit. seco (gr/cm<sup>3</sup>)= 1.16

Def. Unitaria máx (%)= 6.0  
 qu (Kg/cm<sup>2</sup>)= 1.94

V°B°LABORATORIO:

ING. STELLA SANCHEZ

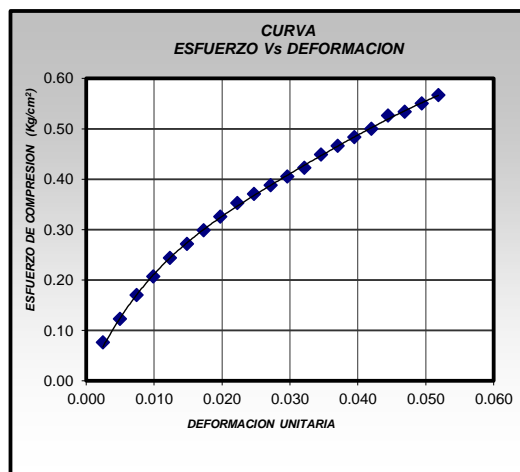
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 8  
**Profundidad:** 4,5-5,0 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.008	0.816	0.20	0.020	0.002	0.998	10.779	0.076
0.013	1.326	0.40	0.040	0.005	0.995	10.805	0.123
0.018	1.836	0.60	0.060	0.007	0.993	10.832	0.169
0.022	2.244	0.80	0.080	0.010	0.990	10.859	0.207
0.026	2.652	1.00	0.100	0.012	0.988	10.887	0.244
0.029	2.958	1.20	0.120	0.015	0.985	10.914	0.271
0.032	3.264	1.40	0.140	0.017	0.983	10.941	0.298
0.035	3.570	1.60	0.160	0.020	0.980	10.969	0.325
0.038	3.876	1.80	0.180	0.022	0.978	10.996	0.352
0.04	4.080	2.00	0.200	0.025	0.975	11.024	0.370
0.042	4.284	2.20	0.220	0.027	0.973	11.052	0.388
0.044	4.488	2.40	0.240	0.030	0.970	11.080	0.405
0.046	4.692	2.60	0.260	0.032	0.968	11.109	0.422
0.049	4.998	2.80	0.280	0.035	0.965	11.137	0.449
0.051	5.202	3.00	0.300	0.037	0.963	11.166	0.466
0.053	5.406	3.20	0.320	0.040	0.960	11.194	0.483
0.055	5.610	3.40	0.340	0.042	0.958	11.223	0.500
0.058	5.916	3.60	0.360	0.044	0.956	11.252	0.526
0.059	6.018	3.80	0.380	0.047	0.953	11.281	0.533
0.061	6.222	4.00	0.400	0.049	0.951	11.311	0.550
0.063	6.426	4.20	0.420	0.052	0.948	11.340	0.567



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.1  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 87.09  
 Altura Final (cm)= 7.680

### Información de la muestra

Muestra húmeda + recip (gr)= 121.73  
 Muestra seca + recip (gr)= 71.91  
 Peso recipiente (gr)=  
 % Humedad= 69.28  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.40  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.83  
 Def. Unitaria máx (%)= 5.2  
 qu (Kg/cm<sup>2</sup>)= 0.57

V°B°LABORATORIO:

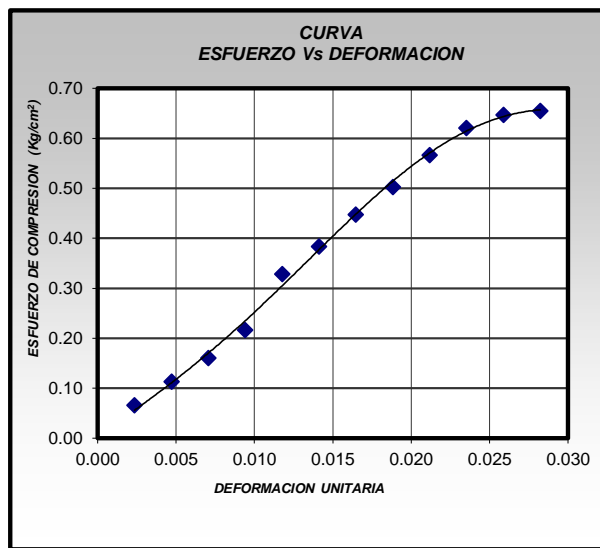
ING.STELLA SANCHEZ

## ENSAYO DE COMPRESION INCONFINADA

<b>Obra:</b>	Escuela de Maderas	<b>Hoja 1 de 1</b>
<b>Proyecto:</b>	Estudio de Suelos	<b>Sondeo:</b> 2
<b>Localización:</b>	Pereira	<b>Profundidad:</b> 4,5-5,0 m
<b>Fecha:</b>	Marzo del 2018	<b>Descripción:</b> Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.007	0.714	0.20	0.020	0.002	0.998	10.777	0.066
0.012	1.224	0.40	0.040	0.005	0.995	10.803	0.113
0.017	1.734	0.60	0.060	0.007	0.993	10.829	0.160
0.023	2.346	0.80	0.080	0.009	0.991	10.854	0.216
0.035	3.570	1.00	0.100	0.012	0.988	10.880	0.328
0.041	4.182	1.20	0.120	0.014	0.986	10.906	0.383
0.048	4.896	1.40	0.140	0.016	0.984	10.932	0.448
0.054	5.508	1.60	0.160	0.019	0.981	10.958	0.503
0.061	6.222	1.80	0.180	0.021	0.979	10.985	0.566
0.067	6.834	2.00	0.200	0.024	0.976	11.011	0.621
0.07	7.140	2.20	0.220	0.026	0.974	11.038	0.647
0.071	7.242	2.40	0.240	0.028	0.972	11.065	0.655



### Geometria de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.5  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 91.39  
 Altura Final (cm)= 8.260

### Información de la muestra

Muestra húmeda + recip (gr)= 132.46  
 Muestra seca + recip (gr)= 77.08  
 Peso recipiente (gr)=  
 % Humedad= 71.85  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.45  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.84

Def. Unitaria máx (%)= 2.8  
 qu (Kg/cm<sup>2</sup>)= 0.65

V°B°LABORATORIO:

ING. STELLA SANCHEZ

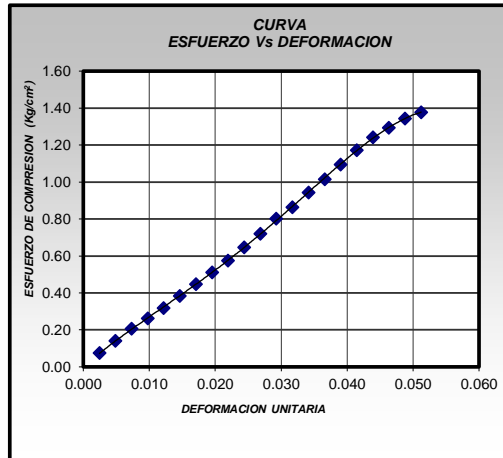
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 1  
**Profundidad:** 4,0-4,5 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.008	0.816	0.20	0.020	0.002	0.998	10.778	0.076
0.015	1.530	0.40	0.040	0.005	0.995	10.805	0.142
0.022	2.244	0.60	0.060	0.007	0.993	10.831	0.207
0.028	2.856	0.80	0.080	0.010	0.990	10.858	0.263
0.034	3.468	1.00	0.100	0.012	0.988	10.885	0.319
0.041	4.182	1.20	0.120	0.015	0.985	10.912	0.383
0.048	4.896	1.40	0.140	0.017	0.983	10.939	0.448
0.055	5.610	1.60	0.160	0.020	0.980	10.966	0.512
0.062	6.324	1.80	0.180	0.022	0.978	10.993	0.575
0.07	7.140	2.00	0.200	0.024	0.976	11.021	0.648
0.078	7.956	2.20	0.220	0.027	0.973	11.049	0.720
0.087	8.874	2.40	0.240	0.029	0.971	11.076	0.801
0.094	9.588	2.60	0.260	0.032	0.968	11.104	0.863
0.103	10.506	2.80	0.280	0.034	0.966	11.132	0.944
0.111	11.322	3.00	0.300	0.037	0.963	11.160	1.014
0.12	12.240	3.20	0.320	0.039	0.961	11.189	1.094
0.129	13.158	3.40	0.340	0.041	0.959	11.217	1.173
0.137	13.974	3.60	0.360	0.044	0.956	11.246	1.243
0.143	14.586	3.80	0.380	0.046	0.954	11.275	1.294
0.149	15.198	4.00	0.400	0.049	0.951	11.304	1.345
0.153	15.606	4.20	0.420	0.051	0.949	11.333	1.377



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.2  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 88.17  
 Altura Final (cm)= 7.780

### Información de la muestra

Muestra húmeda + recip (gr)= 144.02  
 Muestra seca + recip (gr)= 77.76  
 Peso recipiente (gr)=  
 % Humedad= 85.21  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.63  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.88

Def. Unitaria máx (%)= 5.1  
 qu (Kg/cm<sup>2</sup>)= 1.38

q

V°B°LABORATORIO:

*Stella Sanchez*

ING. STELLA SANCHEZ

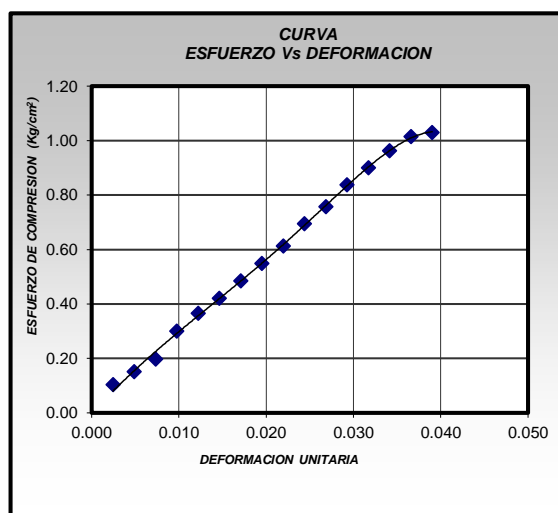


## ENSAYO DE COMPRESION INCONFINADA

<b>Obra:</b>	Escuela de Maderas	<b>Hoja 1 de 1</b>
<b>Proyecto:</b>	Estudio de Suelos	<b>Sondeo:</b> 1
<b>Localización:</b>	Pereira	<b>Profundidad:</b> 1,5-2,0 m
<b>Fecha:</b>	Marzo del 2018	<b>Descripción:</b> Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.011	1.122	0.20	0.020	0.002	0.998	10.778	0.104
0.016	1.632	0.40	0.040	0.005	0.995	10.805	0.151
0.021	2.142	0.60	0.060	0.007	0.993	10.831	0.198
0.032	3.264	0.80	0.080	0.010	0.990	10.858	0.301
0.039	3.978	1.00	0.100	0.012	0.988	10.885	0.365
0.045	4.590	1.20	0.120	0.015	0.985	10.912	0.421
0.052	5.304	1.40	0.140	0.017	0.983	10.939	0.485
0.059	6.018	1.60	0.160	0.020	0.980	10.966	0.549
0.066	6.732	1.80	0.180	0.022	0.978	10.993	0.612
0.075	7.650	2.00	0.200	0.024	0.976	11.021	0.694
0.082	8.364	2.20	0.220	0.027	0.973	11.049	0.757
0.091	9.282	2.40	0.240	0.029	0.971	11.076	0.838
0.098	9.996	2.60	0.260	0.032	0.968	11.104	0.900
0.105	10.710	2.80	0.280	0.034	0.966	11.132	0.962
0.111	11.322	3.00	0.300	0.037	0.963	11.160	1.014
0.113	11.526	3.20	0.320	0.039	0.961	11.189	1.030



### Geometria de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.2  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 88.17  
 Altura Final (cm)= 7.880

### Información de la muestra

Muestra húmeda + recip (gr)= 131.43  
 Muestra seca + recip (gr)= 75.69  
 Peso recipiente (gr)=  
 % Humedad= 73.64  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.49  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.86

Def. Unitaria máx (%)= 3.9  
 qu (Kg/cm<sup>2</sup>)= 1.03

q

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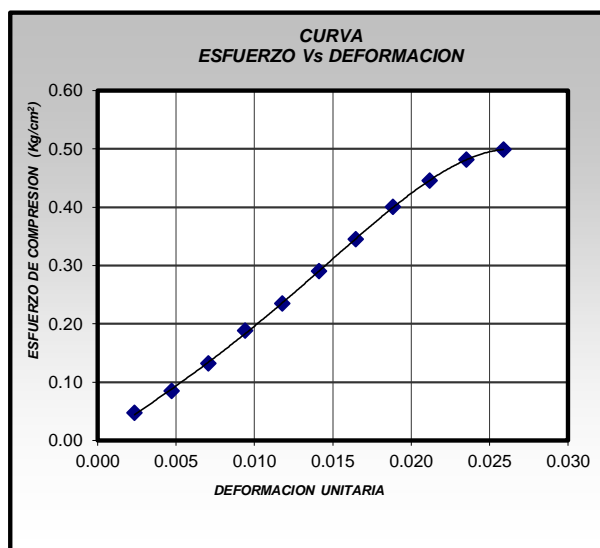
## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 5  
**Profundidad:** 1,5-2,0 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.005	0.510	0.20	0.020	0.002	0.998	10.777	0.047
0.009	0.918	0.40	0.040	0.005	0.995	10.803	0.085
0.014	1.428	0.60	0.060	0.007	0.993	10.829	0.132
0.02	2.040	0.80	0.080	0.009	0.991	10.854	0.188
0.025	2.550	1.00	0.100	0.012	0.988	10.880	0.234
0.031	3.162	1.20	0.120	0.014	0.986	10.906	0.290
0.037	3.774	1.40	0.140	0.016	0.984	10.932	0.345
0.043	4.386	1.60	0.160	0.019	0.981	10.958	0.400
0.048	4.896	1.80	0.180	0.021	0.979	10.985	0.446
0.052	5.304	2.00	0.200	0.024	0.976	11.011	0.482
0.054	5.508	2.20	0.220	0.026	0.974	11.038	0.499



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.5  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 91.39  
 Altura Final (cm)= 8.280

### Información de la muestra

Muestra húmeda + recip (gr)= 129.47  
 Muestra seca + recip (gr)= 74.84  
 Peso recipiente (gr)=  
 % Humedad= 73.00  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.42  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.82

**Def. Unitaria máx (%)= 2.6**  
**qu (Kg/cm<sup>2</sup>)= 0.50**

V°B°LABORATORIO:

ING. STELLA SANCHEZ

## ENSAYO DE COMPRESION INCONFINADA

**Obra:** Escuela de Maderas  
**Proyecto:** Estudio de Suelos  
**Localización:** Pereira  
**Fecha:** Marzo del 2018

**Hoja 1 de 1**  
**Sondeo:** 5  
**Profundidad:** 4,5-5,0 m  
**Descripción:** Limos Inorganicos

K anillo=

Lectura carga KN	Carga (Kg)	Lectura deform. mm	def. Total (cm)	Def. Unitaria	1- Def. Unit.	Area corregida (cm <sup>2</sup> )	Esfuerzo Compresión (kg/cm <sup>2</sup> )
0.008	0.816	0.20	0.020	0.002	0.998	10.778	0.076
0.014	1.428	0.40	0.040	0.005	0.995	10.804	0.132
0.021	2.142	0.60	0.060	0.007	0.993	10.829	0.198
0.028	2.856	0.80	0.080	0.010	0.990	10.856	0.263
0.035	3.570	1.00	0.100	0.012	0.988	10.882	0.328
0.041	4.182	1.20	0.120	0.014	0.986	10.908	0.383
0.049	4.998	1.40	0.140	0.017	0.983	10.934	0.457
0.057	5.814	1.60	0.160	0.019	0.981	10.961	0.530
0.065	6.630	1.80	0.180	0.021	0.979	10.988	0.603
0.074	7.548	2.00	0.200	0.024	0.976	11.014	0.685
0.082	8.364	2.20	0.220	0.026	0.974	11.041	0.758
0.088	8.976	2.40	0.240	0.029	0.971	11.068	0.811
0.097	9.894	2.60	0.260	0.031	0.969	11.096	0.892
0.104	10.608	2.80	0.280	0.033	0.967	11.123	0.954
0.111	11.322	3.00	0.300	0.036	0.964	11.150	1.015
0.116	11.832	3.20	0.320	0.038	0.962	11.178	1.059



### Geometría de la probeta

Diám. Inic (cm)= 3.7  
 Altura Ini (cm)= 8.4  
 Area Inic (cm<sup>2</sup>)= 10.75  
 Volumen (cm<sup>3</sup>)= 90.32  
 Altura Final (cm)= 8.080

### Información de la muestra

Muestra húmeda + recip (gr)= 144.73  
 Muestra seca + recip (gr)= 87.91  
 Peso recipiente (gr)=  
 % Humedad= 64.63  
 Peso unit. Húmedo(gr/cm<sup>3</sup>)= 1.60  
 Peso unit. seco (gr/cm<sup>3</sup>)= 0.97

Def. Unitaria máx (%)= 3.8  
 qu (Kg/cm<sup>2</sup>)= 1.06

V°B°LABORATORIO:

ING.STELLA SANCHEZ