geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Santului~~ Forajului Nr. S4-FD-1020
Borehole ~~Pit~~ Profile

REZULTATELE ANALIZELOR DE LABORATOR
LABORATORY TEST RESULTS

LUCRAREA / DESIGN: Studiu geotehnic pentru revizuirea Studiului de fezabilitate Autostrada Sibiu-Pitesti - Sectiunea 4 (Valeni-Curtea de Arges)

AMPLASAMENT / LOCATION: Autostrada Sibiu-Pitesti
X : 462744.59 Y: 417509.79

DATA / DATE: 01.09.2016

Cota fata de / Level vs: 0.00 Foraj / Borehole (pit)

Borcan / Jar; Stut / Tube; Carota / Core

Foraj / Borehole (pit) (m)	Grosimea stratului / Stratum thickness (m)	Adancimea apei subterane / Underground water depth (m)	Stratificatia / Stratification	Formatiunea geologica / Geological formation	Denumirea stratului (conform Stas 1243-88 si SR EN ISO 14688/2-2005) / Stratum description (according to Stas 1243-88 and SR EN ISO 14688/2-2005)	Numarul probelor / Number and type of samples	Adancimea / Depth (m)
0.10	0.10				Pamant vegetal.		
1.70	1.60				Nisip fin cafeniu - galbui.		
4.35	2.65	2.67			Pietris cu nisip cenusiu si rar bolovanis.	1	2.0-2.2
6.00	1.65				Argila prafoasa cafenie, tare.	2	5.5-5.7

Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005 / Particle size distribution SR EN ISO 14688/2-2005; Limitele Atterberg / Atterberg's limits

Proba / Sample	Argila / Clay <0.002	Praf / Silt 0.063	Nisip fin / Fine sand 0.2	Nisip mediu / Medium sand 0.63	Nisip mare / Coarse sand 2	Pietris mic / Small gravel 6.3	Pietris mediu / Medium gravel 20	Pietris mare / Coarse gravel 63	Bolovanis / Cobbles 200	Coeficientul de neuniformitate / Non-uniformity coefficient Un=d60/d10	Limita de curgere / Liquid limit W_L	Limita de plasticitate / Plastic limit W_P	Indicele de plasticitate / Plasticity index I_P	Umiditatea / Water content w %	Indicele de consistenta / Consistency index I_C	Densitatea scheletului mineral / Skeletal mineral density ρ_s	Greutatea volumica / Unit weight γ kN/m³	Greutatea volumica in stare uscata / Unit dry weight γ_d kN/m³	Porozitatea / Porosity n %	Indicele porilor / Void ratio e	Gradul de umiditate / Degree of saturation Sr
1		7	7	8	6	7	21	44		>15				2.61							
2	27	71	2								57.4	19.1	38.5	16.1 18.8 17.2	>1		20.9 21.0	17.6 17.9	35.20 34.24	0.54 0.52	0.94 0.90

Contractilitatea / Shrinkage-swelling; Compresibilitatea / Compressibility

Proba / Sample	Umflarea libera / Unconfined swelling U_L	Suctiunea 15 bari / Suction 15 bars w_{15}	Contractia volumica (Tulb./Netulb.) / Volume shrinkage (Dist./Undist.) C_v	Limita de contractie / Shrinkage limit w_s	Presiunea de umflare / Swelling pressure Pu kPa	Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-300}$ kPa	Tasare specifica la 200 kPa / Specific settlement at 200 kPa ε_{200} %	Coef. compresibilitate volumica / Coefficient of volume change m_v	Coeficientul de compresibilitate / Coefficient of compressibility $a_{v\,200-300}$ 1/kPa	Sensibilitatea la umezire / Susceptibility to wetting im_{300} %	Efort / Stress σ kPa	Tasare specifica / Specific settlement ε %	Modulul de deformatie edometrica / Oedometer deformation modulus M kPa
2					85	13388.3 8333.3	3.73 2.10		0.00012 0.00018	-1.18			

Rezistenta la forfecare / Shear strength

Proba / Sample	Efort / Effective stress σ/τ 1	2	3	Unghiul de frecare int. / Angle of int. friction Φ °	Coeziunea / Cohesion c kPa	Felul determinarii / Type of test	Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength p_c kPa	Coeficient de permeabilitate / Permeability coefficient k	Continutul in CaCO3 / CaCO3 content %	Penetrarea dinamica standard / Standard penetration test N/30 cm

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