geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Santului~~ Forajului
~~Pit~~ Borehole Profile Nr. S4-FD-1010

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 : 463240.90 Y: 416654.43

DATA / DATE: 02.09.2016

Cota fata de: 0.00 Foraj

Nr.	Adancimea stratului / Stratification depth (m)	Grosimea stratului / Stratum thickness (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)
	0.00				
1	0.30	0.30			Pamant vegetal.
	0.56				
	3.30	3.00			Nisip cafeniu cu pietris si rar bolovanis.
	4.70	1.40			Pietris cu nisip canuslu.
2	5.70	1.00			Argila prafoasa nisipoasa, cenusie, plastic vartoasa.
	6.00	0.30			Pietris cu nisip canuslu.

Borcan / Stut / Carota — Jar / Tube / Core

Numarul probelor / Number and type of samples: 1, 2

Adancimea / Depth (m): 1.35-1.55; 5.0-5.2

Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005 / Particle size distribution SR EN ISO 14688/2-2005

	Argila / Clay	Praf / Silt	Nisip fin / Fine sand	Nisip mediu / Medium sand	Nisip mare / Coarse sand	Pietris mic / Small gravel	Pietris mediu / Medium gravel	Pietris mare / Coarse gravel	Bolovanis / Cobbles
	<0.002	0.063	0.2	0.63	2	6.3	20	63	200
1	4	5	15	20	19	31	6		
2	17	27	12	17	14	10	3		

Coeficientul de neuniformitate / Non-uniformity coefficient: $U_n = d_{60}/d_{10}$

Limitele Atterberg / Atterberg's limits

	Limita de curgere / Liquid limit w_L	Limita de plasticitate / Plastic limit w_p	Indicele de plasticitate / Plasticity index I_p
1			
2	26.8	11.9	14.9

	Umiditatea / Water content w %	Indicele de consistenta / Consistency index I_c	Densitatea scheletului mineral / Skeletal mineral density ρ_s
1	7.21		
2	14.0 14.5 14.9	0.86	

	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					
2	22.2 22.3	19.4 19.4	28.74 28.68	0.40 0.40	0.98 1.00

Contractilitatea / Shrinkage-swelling

	Umflarea libera / Unconfined swelling U_L	Sucsiunea 15 bari / Suction 15 bars w_{15}	Contractia volumica / Volume shrinkage C_v	Limita de contractie / Shrinkage limit w_s	Presiunea de umflare / Swelling pressure Pu kPa
			Tulb. / Netulb.		
1					
2					40

Compresibilitatea / Compressibility

	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 1/kPa	Coeficientul de compresibilitate / Coefficient of compressibility $a_{v\ 200-300}$ 1/kPa	Sensibilitatea la umezire / Susceptibility to wetting im_{200} %	Efort / Stress σ kPa	Tasare specifica / Specific settlement ε %	Modulul de deformatie edometrica / Oedometer deformation modulus M kPa
1								
2	9372.8 7407.4	3.74 3.25		0.00015 0.00018	0.21			

Rezistenta la forfecare / Shear strength

Efort / Effective stress σ/τ

	1	2	3	Unghiul de frecare int. / Angle of int. friction Φ °	Coeziunea / Cohesion c kPa

	Feld determinarii / Type of test	Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength p_c kPa	Coeficient de permeabilitate / Permeability coefficient k m/s	Continutul in CaCO3 / CaCO3 content %	Penetrarea dinamica standard / Standard penetration test N/30 cm

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