geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1017
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 : 462839.49 Y: 417227.03

DATA DATE: 01.09.2016

Cota fata de: 0.00 Foraj / Borehole (pit)

Level vs: 0.00

Borcan / Stut / Carota
Jar / Tube / Core

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)	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005 / Particle size distribution SR EN ISO 14688/2-2005: Argila / Clay <0.002; Praf / Silt 0.002-0.063; 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 $U=\frac{d60}{d10}$	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	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 S_r
0.10	0.10			Pamant vegetal														
1.15	1.05			Nisip cafeniu														
2.40	1.25	2.40		Pietris cu nisip galbui si rar bolovanis.	1	1.6-1.8	1 8 7 10 9 16 30 19	>15				2.89						
4.20	1.80			Nisip cenusiu														
6.00	1.80			Argila prafoasa nisipoasa, galbuie - cenusie, plastic vartoasa.	2	3.6-4.8	11 34 16 25 12 2	>15	23.5	13.1	15.4	13.6 12.1	0.96		20.3	18.1	33.45	0.50	0.65

Contractilitatea / Shrinkage-swelling: Umflarea libera / Unconfined swelling U_L; Sucsiunea 15 bari / Suction 15 bars w_{15}; Contractia volumica / Volume shrinkage C_v (Tub. / Netub. / Dist. / Undst.); Limita de contractie / Shrinkage limit w_s; Presiunea de umflare / Swelling pressure Pu kPa

Compresibilitatea / Compressibility: Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-100}$ 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 $a_{200-100}$ 1/kPa; Susceptibilitate 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

Umflarea libera / Unconfined swelling U_L	Sucsiunea 15 bari / Suction 15 bars w_{15}	Contractia volumica / Volume shrinkage C_v (Tub. / Netub.)	Limita de contractie / Shrinkage limit w_s	Presiunea de umflare / Swelling pressure Pu kPa	Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-100}$ 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 $a_{200-100}$ 1/kPa	Susceptibilitate 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
					14404.4	2.55		0.00010				

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 determinari / Type of test

Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength p_y kPa

Coeficient de permeabilitate / Permeability coefficient $k \frac{m}{s}$

Continutul in CaCO3 / CaCO3 content %

Penetranea dinamica standard / Standard penetration test $\frac{N}{30\ cm}$

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