geotesting®
STUDII GEOTEHNICE ȘI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1009
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 : 463291.51 Y: 416569.09

DATA DATE: 02.09.2016

Borcan / Stut / Carota

Jar / Tube / Core

Cota luata de: / Level vs:	Grosimea stratului / Stratum thickness	Adancimea apei subterane / Underground water depth	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	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 0.063	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 $U_n = \frac{d60}{d10}$	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 kN/m³ γ	Greutatea volumica in stare uscata / Unit dry weight kN/m³ γ_d	Porozitatea / Porosity n %	Indicele porilor / Void ratio e	Gradul de umiditate / Degree of saturation Sr
0.00 Foraj	m	m					m																		
0.00 Bore-hole (pit)	Stratum thickness	Underground water depth	Stratification	Geological formation	STRATUM DESCRIPTION (according to Stas 1243-88 and SR EN ISO 14688/2-2005)	Number and type of samples	Depth	Clay	Silt	Fine sand	Medium sand	Coarse sand	Small gravel	Medium gravel	Coarse gravel	Cobbles	Non-uniformity coefficient	Liquid limit	Plastic limit	Plasticity index	Water content	Consistency index	Skeletal mineral density	Unit weight	Unit dry weight	Porosity	Void ratio	Degree of saturation
0.30	0.30	0.80			Pamant vegetal.																						
3.30	4.55				Nisip cafeniu cu pietris si rar bolovanis.	1	2.4-2.55	7	9	31	34	13	6				7.9				12.7							
5.00	1.70				Nisip cerusiu cu pietris.																						
6.00	1.00				Argila prafoasa nisipoasa cenusie, plastic vartoasa.	2	5.4-5.6	28	51	13	6	2						52.4	16.7	35.7	17.0 16.2	0.99		21.3	18.4	32.48	0.48	0.91

Contractilitatea / Shrinkage-swelling						Compresibilitatea / Compressibility								Rezistenta la forfecare / Shear strength						Felul determinarii / Type of test	Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength	Coeficient de permeabilitate / Permeability coefficient	Continutul in CaCO3 / CaCO3 content	Penetrarea dinamica standart / Standard penetration test
Umflarea libera / Unconfined swelling U_L	Succiunea 15 bari / Suction 15 bars w_{15}	Contractia volumica / Volume shrinkage C_v (Tub. / Netulb.)	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 $a_{v\ 200-100}$ 1/kPa	Sensibilitatea la umezire / Susceptibility to wetting $i_{m\ 200}$ %	Efort / Stress σ kPa	Tasare specifica / Specific settlement ε %	Modulul de deformatie edometrica / Oedometer deformation modulus M kPa	Efort σ/τ / Effective stress σ/τ: 1	2	3	Unghiul de frecare int. / Angle of int. friction Φ °	Coeziunea / Cohesion c kPa		p_c kPa	k m/s	CaCO3 %	$\frac{N}{30\ cm}$
					12732.6	2.97		0.00012															

Intocmit: ing. V. Marin

Verificat: ing. A. Diaconu