geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-52
~~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 : 464763.74 Y: 411172.10

DATA DATE: 29.08.2016

Cota fata de: 0.00 Foraj	Grosimea stratului	Adancimea apei subterane	Stratificatia	Formatiunea geologica	DENUMIREA STRATULUI (conform Stas 1243-88 si SR EN ISO 14688/2-2005)	Numarul probelor	Adancimea	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila <0.002; Praf 0.063; Nisip fin 0.2; Nisip mediu 0.63; Nisip mare 2; Pietris mic 6.3; Pietris mediu 20; Pietris mare 63; Bolovanis 200; Coeficientul de neuniformitate U = d60/d10	Limitele Atterberg: Limita de curgere W_L; Limita de plasticitate W_P	Indicele de plasticitate I_P	Umiditatea w %	Indicele de consistenta I_C	Densitatea scheletului mineral ρ_s	Greutatea volumica $\frac{kN}{m^3}$ γ	Greutatea volumica in stare uscata $\frac{kN}{m^3}$ γ_d	Porozitatea n %	Indicele porilor e	Gradul de umiditate S_r	Contractilitatea: Umflarea libera U_L; Sucsiunea 15 bari w_{15}; Contractia volumica Tulb. / Netulb. C_v; Limita de contractie w_s; Presiunea de umflare Pu kPa	Compresibilitatea: Modulul de deformatie edometrica $M_{200-300}$ kPa; Tasare specifica la 200 kPa s_{200} %; Coef. compresibilitate volumica m_v / kPa; Coeficientul de compresibilitate $a_{v\ 200-300}$ 1/ kPa; Sensibilitatea la umezire $im_{w\ 30}$ %; Efort σ MPa; Tasare specifica ε %; Modulul de deformatie edometrica M kPa	Rezistenta la forfecare: Efort σ/τ 1 2 3; Unghiul de frecare int. Φ °; Coeziunea c kPa	Felul determinarii	Rezistenta la compresiune cu deformatie laterala libera p_c kPa	Coeficient de permeabilitate k m/s	Continutul in CaCO3 CaCO3 %	Penetrarea dinamica standard $\frac{N}{30\ cm}$
	m	m					m																										
Level vs: 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	Particle size distribution SR EN ISO 14688/2-2005: Clay; Silt; Fine sand; Medium sand; Coarse sand; Small gravel; Medium gravel; Coarse gravel; Cobbles; Non-uniformity coefficient	Atterberg's limits: Liquid limit; Plastic limit	Plasticity index	Water content	Consistency index	Skeletal mineral density	Unit weight	Unit dry weight	Porosity	Void ratio	Degree of saturation	Shrinkage-swelling: Unconfined swelling; Suction 15 bars; Volume shrinkage Dist. / Undist.; Shrinkage limit; Swelling pressure	Compressibility: Oedometer deformation modulus; Specific settlement at 200 kPa; Coefficient of volume change; Coefficient of compressibility; Susceptibility to wetting; Stress; Specific settlement; Oedometer deformation modulus	Shear strength: Effective stress σ/τ 1 2 3; Angle of int. friction; Cohesion	Type of test	Unconfined compressive strength	Permeability coefficient	CaCO3 content	Standard penetration test
0.15	0.15				Pamant vegetal.																											
0.80	0.65				Nisip cafeniu.																											
						1	1.2-1.6	2 3 5 6 7 15 39 23 >15			3.19																					
3.90	3.10	3.55			Pietris cu nisip cafeniu.																											
					Nisip argilos, galbui - cenusiu.	2	5.5-5.72	10 13 46 25 1 >15			18.3																					
6.00	2.10										17.7			20.4	17.4	36.17	0.57	0.85						16539.4	2.33		0.0001						

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