geotesting®
STUDII GEOTEHNICE SI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-37
~~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 : 464470.17 Y: 414252.60

DATA / DATE: 02.08.2016

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	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	Coeficientul de neuniformitate / Non-uniformity coefficient	Limitele Atterberg / Atterberg's limits: Limita de curgere / Liquid limit	Limita de plasticitate / Plastic limit	Indicele de plasticitate / Plasticity index	Umiditatea / Water content	Indicele de consistenta / Consistency index	Densitatea scheletului mineral / Skeletal mineral density	Greutatea volumica / Unit weight	Greutatea volumica in stare uscata / Unit dry weight	Porozitatea / Porosity	Indicele porilor / Void ratio	Gradul de umiditate / Degree of saturation
Foraj / Borehole (plt)	m	m					m	<0.002	0.063	0.2	0.63	2	6.3	20	63	200	$U=\frac{d60}{d10}$	w_L	I_P	w %	I_C	ρ_s	kN/m³ γ	kN/m³ γ_d	n %	e	Sr
0.00																												
0.30	0.30				Pamant vegetal.																							
1.90	1.60	1.85			Pietris cu nisip galbui - cafeniu.	1	1.5-1.7		7	6	10	8	13	33	23	>15					1.99								
						2*	2.6-3.0	25	72	3									48.8	15.2	33.6	17.9	0.92		20.8	17.9	34.07	0.52	0.85
6.00	4.10				Argila prafoasa ... argila, cenusie, plastic vartoasa ... tare.	3*	4.0-4.2	48	52										89.1	29.8	59.3	16.2 18.8 18.1	>1		20.3	17.2	36.93	0.59	0.84

Contractilitatea / Shrinkage-swelling: Umflarea libera / Unconfined swelling	Sucțiunea 15 bari / Suction 15 bars	Tulb. / Netulb. / Contracția volumica / Volume shrinkage	Limita de contracție / Shrinkage limit	Presiunea de umflare / Swelling pressure	Compresibilitatea / Compressibility: Modulul de deformație edometrica / Oedometer deformation modulus	Tasare specifica la 200 kPa / Specific settlement at 200 kPa	Coef. compresibilitate volumica / Coefficient of volume change	Coeficientul de compresibilitate / Coefficient of compressibility	Sensibilitatea la umezire / Susceptibility to wetting	Efort / Stress	Tasare specifica / Specific settlement	Modulul de deformație edometrica / Oedometer deformation modulus	Rezistenta la forfecare / Shear strength: Efort / Effective stress σ/τ	Unghiul de frecare int. / Angle of int. friction	Coeziunea / Cohesion	Felul determinarii / Type of test	Rezistenta la compresiune cu deformație laterala libera / Unconfined compressive strength	Coeficient de permeabilitate / Permeability coefficient	Continutul in CaCO3 / CaCO3 content	Penetrarea dinamica standard / Standard penetration test
U_L	w_{15}	C_v	w_s	Pu kPa	$M_{200-400}$ kPa	ε_{200} %	m_v / $a_{v\,200-300}$ 1/kPa		im_{300} %	σ kPa	ε %	M kPa	1	2	3	Φ °	c kPa		p_c kPa	k m/s	CaCO3 %	$\frac{N}{30\,cm}$
																						2.00
																						28/35/R
							0.00011					14130.4	2.42									
							0.00011					14285.7	2.10									

Nota:
(*) - Esantion comparabil PNT (proba netulburata) - rezultat informativ

Intocmit: ing. V. Marin

Verificat: ing. A. Diaconu