geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1000
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 : 463966.27 Y: 415027.21

DATA DATE: 09.09.2016

Cota fata de: 0.00 Foraj

Level vs: 0.00 Bore-hole (pit)

Borcan / Stut / Carota — Jar / Tube / Core

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
0.10				Pamant vegetal.		
0.65				Nisip fin cafeniu cu rar pietris.	1	1.4-1.6
3.35	3.10			Nisip cenusiu cu pietris si rar bolovanis.	2	4.5-4.7
1.90				Nisip prafos galbui.		

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

Argila / Clay	Prat / 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
<0.002	0.063	0.2	0.63	2	6.3	20	63	200	$U_n = d_{60}/d_{10}$
5	2	12	11	17	30	23			>15
19	43	32	4	2					>15

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 kN/m³ γ_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
6.11							
17.1							

Contractilitatea / Shrinkage-swelling

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

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_{ws} %	Efort / Stress σ kPa	Tasare specifica / Specific settlement ε %	Modulul de deformatie edometrica / Oedometer deformation modulus M kPa

Rezistenta la forfecare / Shear strength

Efort σ/τ / Effective stress σ/τ 1	2	3	Unghiul de frecare int. / Angle of int. friction Φ °	Coeziunea / Cohesion c kPa

Felul 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

Intocmit: ing. V. Marin

Verificat: ing. A. Diaconu