geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-50
~~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 : 464754.09 Y: 411364.33

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)	Borcan / Stut / Carota — Numarul probelor	Adancimea	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila	Praf	Nisip fin	Nisip mediu	Nisip mare	Pietris mic	Pietris mediu	Pietris mare	Bolovanis	Coeficientul de neuniformitate	Limitele Atterberg: Limita de curgere	Limita de plasticitate	Indicele de plasticitate	Umiditatea	Indicele de consistenta	Densitatea scheletului mineral	Greutatea volumica	Greutatea volumica in stare uscata	Porozitatea	Indicele porilor	Gradul de umiditate	Contractilitatea: Umflarea libera	Stoichiometrie 15 bari	Contractia volumica: Tulb. / Neturb.	Limita de contractie	Pragul de umflare	Compresibilitatea: Modulul de deformatie edometrica	Tasare specifica la 200 kPa	Coef. compresibilitate volumica	Coeficientul de compresibilitate	Sensibilitatea la umezire	Efort	Tasare specifica	Modulul de deformatie edometrica	Rezistenta la forfecare: Efort σ/τ 1	2	3	Unghiul de frecare int.	Coeziunea	Felul determinarii	Rezistenta la compresiune cu deformatie laterala libera	Coeficient de permeabilitate	Continutul in CaCO3	Penetrarea dinamica standard
	m	m					m	<0.002	0.063	0.2	0.63	2	6.3	20	63	200	Ud=d60/d10	W_L	W_P	I_P	w %	I_C	ρ_s	kN/m³ γ	kN/m³ γ_d	n %	e	Sr	U_L	w_{15}	C_v	w_1	Pu kPa	$M_{200-600}$ kPa	ε_{200} %	m_v 1/kPa	$a_{200-300}$ 1/kPa	$I_{im\,300}$ %	c kPa	ϕ °	M kPa	1	2	3	Φ °	c kPa		p_c kPa	k m/s	CaCO3 %	N/30 cm
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)	Jar / Tube / Core — 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
0.10	0.10				Pamant vegetal.																																												
1.25	1.15				Nisip galbui, cu rari pietris.																																												
		2.10				1	1.5-1.8	3	7	6	19	15	21	28	1	>15				7.80																															
					Pietris cu nisip galbui - cafeniu si rar bolobanis.																																												
4.70	3.45																																														
					Argila cafenie - cenusie, plastic vartoasa.	2	5.0-5.28	41	58	1									71.4	21.5	49.9	23.4 20.4	0.96		20.1 20.3	16.7 16.5	38.64 39.51	0.63 0.65	0.88 0.98						210	10108.9 6060.6	3.54 1.45		0.00016 0.00026	3.08 $M_{200-300}$																	
5.65	0.95																				23.5																											
6.00	0.35				Nisip cenusiu.																																												

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