geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-05
~~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 : 464751.68 Y: 412432.92

DATA / DATE: 20.08.2016

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	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	Contracilitatea: Umflarea libera	Sucsiunea 15 bari	Contractia volumica: Tulb. / Netulb.	Limita de contractie	Presiunea de umflare	Compresibilitatea: Modulul de deformatie edometrica	Tasare specifica la 200 kPa	Coef. compresibilitate volumica	Coeficientul de compresibilitate	Sensibilitatea la umezire	Rezistenta la forfecare: Efort	Tasare specifica	Modulul de deformatie edometrica	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	0.002 0.063	0.063 0.2	0.2 0.63	0.63 2	2 6.3	6.3 20	20 63	63 200	$U=\frac{d60}{d10}$	W_L	W_p	I_p	w %	I_c	ρ_s	$\frac{kN}{m^3}\ \gamma$	$\frac{kN}{m^3}\ \gamma_d$	n %	e	Sr	U_L	w_{15}	C_v	w_s	Pu kPa	$M_{200-300}$ kPa	ε_{200} %	m_v $\frac{1}{\beta_E \cdot kPa}$	$a_{v\ 200-300}$ $1/kPa$	Im_{300} %	σ kPa	ε %	M kPa	1	2	3	Φ °	c kPa		P_c kPa	k $\frac{m}{zi}$	CaCO3 %	N $\frac{}{30\,cm}$
Level vs: 0.00 Bore-hole (pit)	Stratum thickness	Underground water depth	Stratification	Geodezical formation	STRATUM DESCRIPTION (eccording to Stas 1243-88 anc 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: Odometer deformation modulus	Specific settlement at 200 kPa	Coefficient of volume change	Coefficient of compressibility	Susceptibility to wetting	Shear strength: Stress	Specific settlement	Odometer deformation modulus	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.																																													
0.60 0.50					Nisip cafeniu cu rar pietris mic.																																													
2.70 2.10		2.00			Bolovanis cu pietris si nisip cenusiu - galbui, indesat.																																													
						1	2.0-428	71	29									98.8	27.9	71.1	24.7	>1		20.8	16.6	38.91	0.64	1.00																										2.00
																					24.9			21.0	16.9	37.74	0.61	1.00	398.3				140	15540.9	3.10		0.00011	-0.04																39/R
					Argila ... argila prafoasa, cenusie - galbule, plastic vartoasa ... tare, cu intercalatii de nisip fin cenusiu.																																	4651.2	1.55		0.00034															
						2	8.0-83	38	59	3								50.6	14.1	36.5	20.2	0.83																																
10.00 7.30																					19.6			20.3	16.9	37.74	0.61	0.88					24	8937.8	4.60		0.00018	0.68																6.00
																					19.8			20.5	17.1	37.15	0.59	0.91						6451.6	4.85		0.00024																R

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