geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

# Profilul ~~Santului~~ Forajului Nr. S4-FD-40
# 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<br>X : 464742.29 Y: 413692.95 |
| DATA / DATE | 13.08.2016 |

Cota fata de: 0.00 Foraj / Level vs: 0.00 Bore-hole (pit)

Borcan / Jar ☐; Stut / Tube ☒; Carota / Core ■

| Grosimea stratului / Stratum thickness (m) | Adancimea apei subterane / Underground water depth (m) | Stratificatia / Stratification | 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 (m) | Argila / Clay <0.002 | Praf / Silt 0.063 | Nisip fin / Fine sand 0.2 | Nisip mediu / Medium sand 0.63 | Nisip mare / Coarse sand 2 | Pietris mic / Small gravel 6.3 | Pietris mediu / Medium gravel 20 | Pietris mare / Coarse gravel 63 | Bolovanis / Cobbles 200 | Coeficientul de neuniformitate / Non-uniformity coefficient Un=d60/d10 | 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 $\rho_s$ | Greutatea volumica / Unit weight γ kN/m³ | Greutatea volumica in stare uscata / Unit dry weight $\gamma_d$ kN/m³ | Porozitatea / Porosity n % | Indicele porilor / Void ratio e | Gradul de umiditate / Degree of saturation Sr | Umflarea libera / Unconfined swelling $U_L$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.15 (0.15) | | | Pamant vegetal | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 (4.15) | 2.50 | | Pietris cu nisip galbui si rar bolovanis, indesat. | 1 | 3.0-3.3 | | 2 | 4 | 16 | 22 | 23 | 29 | 4 | | >15 | | | | 8.35 | | | | | | | | |
| 1.85 (6.00) | | | Argila prafoasa nisipoasa.... argila prafoasa, galbuie - cenusie, plastic consistenta - plastic vartoasa. | 2* | 4.6-4.86 | 16 | 32 | 14 | 21 | 9 | 8 | | | | | 29.6 | 12.1 | 17.5 | 16.6 | 0.74 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 16.4 | | | 21.4 | 18.4 | 32.27 | 0.48 | 0.93 | 75 |
| | | | | 3 | 5.7-6.0 | 32 | 67 | 1 | | | | | | | | 50.3 | 16.5 | 33.8 | 19.5 | 0.91 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 19.5 | | | 20.1 | 16.8 | 38.09 | 0.62 | 0.86 | |

Contractilitatea / Shrinkage-swelling; Compresibilitatea / Compressibility; Rezistenta la forfecare / Shear strength

| Suctiunea 15 bari / Suction 15 bars $w_{15}$ | Contractia volumica (Tulb./Netulb.) / Volume shrinkage (Dist./Undist.) $C_v$ | Limita de contractie / Shrinkage limit $w_s$ | Presiunea de umflare / Swelling pressure Pu kPa | Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-300}$ kPa | Tasare specifica la 200 kPa / Specific settlement at 200 kPa $\varepsilon_{200}$ % | Coef. compresibilitate volumica / Coefficient of volume change $m_v$ | Coeficientul de compresibilitate / Coefficient of compressibility $a_v$ 1/kPa | Sensibilitatea la umezire / Susceptibility to wetting $im_{300}$ % | Efort / Stress σ kPa | Tasare specifica / Specific settlement ε % | Modulul de deformatie edometrica / Oedometer deformation modulus M kPa | Efort / 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 | Continutul in CaCO3 / CaCO3 content % | Penetrarea dinamica standard / Standard penetration test N/30 cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | 2.00 18/22/24 |

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

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