

Borehole Log Visualization Software VisLog

VisLog is a creative computer program by which the 3-dimensional model of the site including in-situ test results can be visualized. Drawing soil profiles by just drag & drop of the boreholes! Several different features for soil group definition and their shading styles are provided in VisLog.

- Providing 3D view of your site
- Easy zoom, rotate and pan
- Each layer of data supports transparency
- Importing glnt files
- Export to image and DXF files
- Automatic generation of soil profiles
- Plotting field test results besides boreholes
- Rendering contour maps for each parameter across the site (groundwater level, coordinates, etc.)

Pile Bearing Capacity Analysis Software PDpile

PDpile is the newest Novo Tech software product for estimation of bearing capacity and settlement of piles based on the methodology proposed by H. Poulos and E. Davis which covers both driven and bored piles. There is no limitation for number of soil layers and both drained and undrained conditions are incorporated.

- Providing skin and end bearing in clay and sand
- Applying critical depth (Z_c) for arching effect in sands
- Models for variable pile diameter, tapered piles and belled piles
- Automatic calculation of bearing capacity factor (N_q) and $K_s \tan(\Phi)$ based on pile type and soil properties
- Calculation of pile settlement
- All calculation details for each step are provided as tabular data
- All tables and charts can be exported as Excel and image files

About Novo Tech Software

Novo Tech Software is an engineering software company based in Vancouver, Canada. Novo Tech produces software tools for geotechnical engineering firms backed by 15 years of experiences in developing software tools for engineers.

To learn more and download the free trial version, visit:
www.NovotechSoftware.com



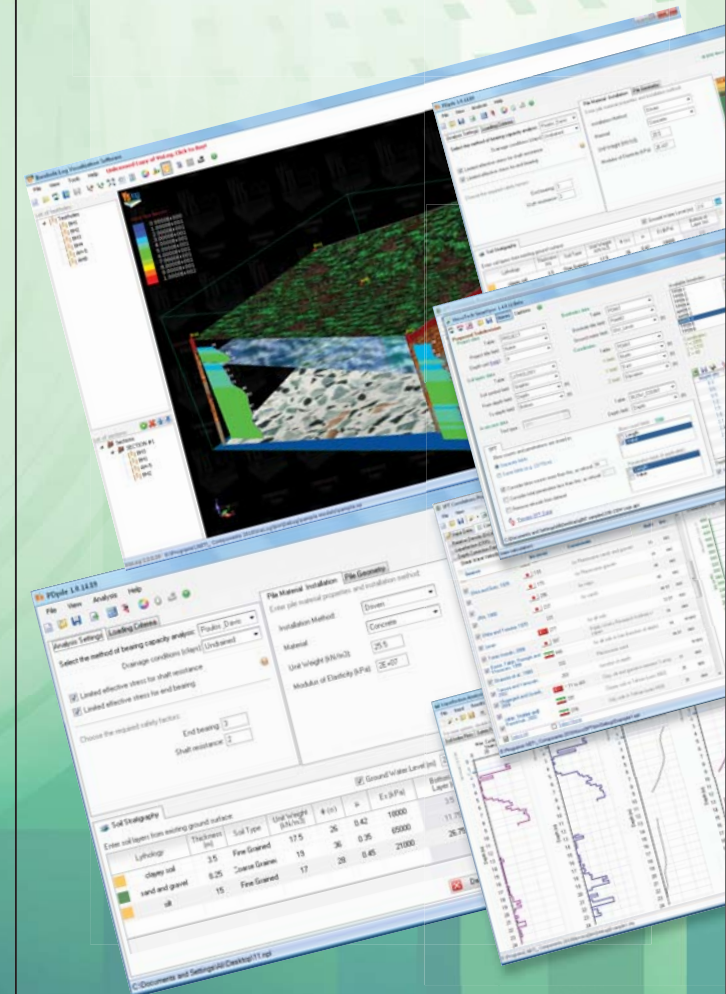
4188 Hoskins Road
North Vancouver, BC
Canada V7K-2P5

Phone: 604-603-5650

www.NovoTechSoftware.com



NOVO TECH SOFTWARE



SPT Correlations Software

NovoSPT

NovoSPT is the ONLY software program that has a database of more than 250 formulas for correlation of soil properties based on SPT blow counts. Each correlation has the full reference information. NovoSPT correlates the following soil properties based on SPT:

- All SPT correction factors
- Modulus of elasticity (E_s)
- Friction angle (Φ)
- Relative density (D_r)
- Undrained shear strength (S_u)
- CPT tip resistance (q_c)
- Modulus of subgrade reaction (K_s)
- Overconsolidation ratio (OCR)
- Shear wave velocity (V_s)
- Shear modulus (G_{max})
- Cyclic resistance ratio (CRR)
- Bearing capacity of piles and footings
- Settlement of footings
- Becker density test blow count
- Compressibility factor (m_v)
- Normalized dilation angle (v_d)
- Pressuremeter Menard modulus (E_{PMT})
- Saturated unit weight (γ)
- Wildcat cone resistance (q_d)
- Initial modulus of stiffness (G_0)
- Import from gINT, Text file, ...
- Supports both Metric and Imperial units
- Import from gINT files

All results can be printed or exported to Excel and image files.

User can plot and compare the variation of a parameter in depth based on different correlation methods.

Cone Penetration Test Interpretation Software

NovoCPT

NovoCPT is a very intuitive CPT interpenetration software tool that imports CPT files and performs interpretations and correlations to soil parameters. Correlated parameters include:

- Shear strength (S_u)
- Equivalent SPT blow counts (N_{60})
- Hydraulic conductivity (K)
- Clay sensitivity (S_c)
- Young's modulus (E_s)
- Relative density (D_r)
- Friction angle (Φ) and Unit weight (γ)
- Soil behaviour type index (I_c)
- Fines content
- Other parameters such as q_t , Q_t , Q_{tn} , F_r , R_p , B_q , n , C_c , K_O , OCR, e , V_s , G_{max} ...

Other tools:

- Soil liquefaction analysis (based on Robertson 2009 method)
- Piles bearing capacity analysis (LCPC method)
- Footings bearing capacity (3 methods) and settlement analysis (Elastic, Consolidation)
- Soil behaviour type charts (Robertson 1990, Jefferies & Been 2006)
- Plot templates, overlying feature for comparing two or more parameters on the same graph
- Advanced selective report
- Supports both Metric and Imperial units for input files

All results can be printed or exported to Excel and image files.

Soil Liquefaction Software

NovoLiq

Analysis of soil liquefaction during earthquake has been always challenging. By using NovoLiq, user is able to assess the liquefaction potential and estimate the post-liquefaction lateral displacement and vertical settlement, based on different methods. Input data can be Standard Penetration Test (SPT), Becker Density Test (BDT) and Shear Wave Velocity Test (V_s).

- 10 methods for liquefaction assessment
- Unlimited soil layers
- Analysis of probability of soil liquefaction
- Fines content correction
- Several options for correlation of "Magnitude Scaling Factor (MSF)", "Depth Reduction Factor (Rd)", "Relative Density (D_r)", "Overburden Stress Factor (KS)", etc.
- Importing gINT files
- Lateral spreading of site is estimated according to: Zhang, Robertson and Brachman 2004, Youd et al. 2002, Barlett and Youd 1992, Youd and Perkins 1987, Hamada et al. 1986
- Post-liquefaction residual strength (S_r)
- Several plots and tabular data for each step of calculation
- Supports both Metric and Imperial units

All results can be printed or exported to Excel and image files.

