



Updated: 05/2021

Creation of User-defined Template

Program:	Stratigraphy – Logs
File:	Demo_manual_44.gsg

Every country or company has its requirements for the form of the field test report. The stratigraphy program allows you to define any data and protocols within the template set. The goal of this engineering manual is to show how you can create these templates and edit them

Assignment

Modify the "EN-Standard" template set for borehole so that:

- The layers will include text data "My Drillability"
- The notes were not entered for the individual layer but only for the entire borehole
- Contained new types of samples "Aggressivity" and "Rock strength Schmidt"

Use the data from the previous Engineering Manual – Demo_manual_42.gsg. Name the newly created template set EM 44 and save it in the Templates Administrator for future use.

Next, modify the output protocol so that it will match the new data. The output log of the "EN-Standard" template set for borehole has the following form:

Annex Annex nan: Mr. Yo erited: Mr. Sm ing: th to 220.00 m 24.00 m 24.00 m saCl 6 G	0,00	ord gind al en dia. 195 mm 156 mm 0 - 4,90	Fill: Gequipment: Overall death: Ground water table. Ground water table. Ground water table. Ground water table. Ground table. Depth from 0.00 m Layer Fill: fine grained S bricks party the s botehole diameter Fill: coarse GR AV	Hitte 202 TF 24.00 m Casing: Depth to 20.00 s description AND with some of concrete and concrete and concrete and so is larger than , black colour of	Borehole Coordinate X: Coordinate X: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate Z: Coordinate X: Coordinate X: Coordin	position: 0,00 0,00 m ing dia. 191 m m
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a constraints of the second se	0,0 4,9	156 mm 0 - 4,90	Fill: fine grained S mixed with cobles bricks partly the si bothole diameter / Fill: coarse GRAV	s description AND with some : of concrete and ize is larger than , black colour of	tilt, dense, pieces of the the soil	Notes
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Gr	4,9		snale) and tresh a	ingular cobles up	to 15 cm,	
		u - 6,40	Sand with trace of	fines: medium o	rained with	
C	- 04	0 - 8 60	some fine soil, der	nse, rust-brown		Easy
aa	0,4	0 - 0,00	Gravely clay: hard	d, gravel particles	up to 10	drilling
grCl	8,6	0 - 9,60	mm (weathered sh	hale), brown	al and a	
sasiCI	9,60	0 - 10,50	(quartz) up to 50 r	nm dia., brown	or gravel	
7 saCl	10.5	0 - 12.00	Sandy clay: with s	ome gravel, hard	, gravel -	
			sub angular shale mica included bro	up to 10 mm, sa wn colour	nd is fine,	
grCI	12,0	0 - 14,80	Shale, fully weath character with small	ered: residual soi all particles of sh	I, clay ale up to 5	
	8 14.8	0 - 15,80	Shale, weathered	in barehole care	small	
3	35 15,8	0 - 19,30	planes, gently incl strength, micas ar planes, brown/rus	ines, parts 10-50 td limonite on foli t	mm, weak	
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The required form of the protocol:





Solution:

First, open the Demo manual 42.gsg file, which contains the test data. In the Templates frame, check whether you have set the template set you want to edit - "EN - Standard" (If a different template set is selected, we can change it by clicking the "Select Template" button in the list of templates). Press the "Edit copy of current template set and add it into the Administrator" button to enter the window for editing the template set.



We name the new template set "EM44". After editing, the template is saved into the "Templates administrator".

	dd copy of standard template set into the administrator
Nam	e: 叠 EM 44
No.	Name
1	Borehole
2	Well
3	CPT
4	DDT

In the table, we select template No. 1 (Borehole). In the "Edit template" window, we can see that the template contains the data of the selected test (left part of the window) and the protocols on how to print the data (right part of the window). Next, the mapping for import/export is in the right corner of the window (more information in EM47 – Export and Import of Field Tests in the Stratigraphy).

ame: Ab	Borehole	7A EN	Comment :	a	• A	nput data for field test	10		utput pro	tocols for field t	2515
				Input data	10 00 00 00 00		10. 1900 CC	1.1	1	ist of output protocols	
No. 1 2	Name Test name Overall depth	G Str G Nu	lype ng mber	Parameters Symbol: d _{ist} 8,69 m 8,89 h	Conditional input	Comment General / Fixed Read only - automatically determined from date of field test / General / Fixed	Add according to sample Add (to the end)	No. Na 1 Borehole - Field test 2 Borehole - Soil profil		Protocol type Field tests Soil Profiles	Add
4	Coordinate X Coordinate X	S Nu S Nu	mber mber	8,59 m 8,59 m 8,59 m 8,59 m		General / Fixed					Ph Copy
6	Vertical offset of the origin	© Na	mber	8.09 ft Symbol: dy, 8.09 m 8.09 ft		General / Fixed		Na.	List of n Name	napping for export and import Comment	+ Add
7	GWTbored	Stri	ng	Symbol: GWT _b Unit description: m, ft		Read only - list of GWT bored from GWT table / Borehole+ Well+ SPT- PMT		2	FINE AGS4 Ed. 4.0. FINE - EN Standar		
8	GWT steedy	Stri	ng	Symbol: GWT, Unit description: m, ft		Read only - list of GWT steady from GWT table / Borehole+ Well+SP1-PMT					
9	Layers Thickness Death	C Tab	ale Imber Indus	With layer thickness Number of elements 6		Berchole+Well+SPT+PMT / Fixed		Map	ping for in	nport/export	
	Soil name Soil pattern	S Str. Pat	ing Item and oblor					of fie	eld tests		Copy All
	Layer description Data - Basic	Gro	ng oup				Transaction of the second				Peste
	Stratigraphy Classification according to EN ISO 14688-1	Stri Stri	ng				B AI	Columns for	Cross-Sections (nu	mber of columns 4):	🛄 input colu
	Classification according to EN ISO 14688-2	Stri	ng				r 🖹 Peste	Graphical re	presentation (num	iber of items 1) : 🔳 Input gra	phical representat

Capability : model or



Note: Within the one template, we can define the data for all types of tests that the Stratigraphy program supports (Borehole, Well, CPT, DPT, SPT, DMT a PMT) and the form of all output protocols of the entered data.

Firstly, we will focus on data editing. In the left part of the window, all data contained in the template are displayed.

me: 40	Borehole	- 🗛 EN Comment: 🔒		• 7A					
			Input data			-	L L	st of output protocols	
No.	Name	Type	Parameters	Conditional input	Comment	a.n Add	No. Name	Protocol type	Add
1	Test name	S itring			General / Fixed	according to sample	1 Borehole - Field test	Field tests	
2	Overall depth	S Number	Symbol: d _{tot} 8,89 m 8,89 ft		Read only - automatically determined from data of field test / General / Fixed	 Add (to the end) 	2 Borehole - Soil profile	Soil Profiles	
3	Coordinate X	S Number	8,89 m 8,89 ft		General / Fixed				
4	Coordinate Y	S Number	8,89 m 8,89 ft		General / Fixed				
5	Coordinate Z	S Number	8,89 m 8,89 ft		General / Fixed				
6	Vertical offset of the origin	S Number	Symbol: d _a 8,89 m 8,89 ft		General / Fixed				
7	GWT bored	S String	Symbol: GWT _b Unit description: m. ft		Read only - list of GWT bored from GWT table / Borehole+Well+SPT+PMT				
8	GWT steady	S String	Symbol: GWT _t Unit description: m. ft		Read only - list of GWT steady from GWT table / Borehole+Well+SPT+PMT				
9	Layers Thickness Depth Solipattern Solipattern Layer description Data - Beits Stratignaphy Classification according to EN ISO 14688-1 Confliction according to EN ISO 14688-2 ROC retorn according to EN ISO 14688-2 Notes	Gi Table Vumber Vumber Etring Pattern and color Bring String String String String String String String String String String	With Jayer thickness Number of elements 6		Borehole+Well+SPT+PMT/Fixed				Сору
10	Samples Depth from Depth to Sample type undefinited	Sable Number Number Enumeration	With depth "from" and optional "to" Number of elements 4		Borehole+SPT+PMT / Fixed		List of m	apping for export and import	
	disturbed technological rockstrength leachate sample of water other Sample index	Enumeration element					No. Name 1 FINE AGS4 Ed. 4.0. 2 FINE - EN Standar	Comment	Add
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	GWT description	S String				Copy		and a subscription	test -
12	Data - Protocol Annex no.	Group	Number of elements 8			- All	Columns for Cross-Sections (num	nber of columns 4) :	IIII Input column

Note: The individual data have auxiliary markings for clarity, that helps the user to orientate.

- 1. House $(\widehat{\mathbf{m}})$ indicates that the data type was created and named by the user
- 2. Globe (S) indicates that the data type was selected from the "Global Library". The global library contains predefined data types that the user can insert into his template.
- 3. Globe with a house (1) indicates that the data type was selected from the global library and subsequently modified by the user.



We enter a new layer property – "My Drillability". On the "Borehole" tab, select the item – no.9 "Layers" and click on the "Edit" button (You can also double click it with a mouse)

ame: AN	Borehole	A EN Comment	2	- 7A						
			Input data						List of output protocols	
No.	Name	Type	Parameters	Conditional input	Comment	Add	No.	Name	Protoc	ol type 💠 Add
		- Harrison	8,89 ft		denotes reco	 according to sample 	e 1	Borehole - Field test	Field te	AS
5	Coordinate Z	S Number	8,89 m 8,89 ft		General / Fixed	Add (to the end)	2	Borehole - Soil profile	Soil Pro	hles
6	Vertical offset of the origin	S Number	Symbol: d _h 8,89 m 8,89 ft		General / Fixed	E Insert (before 9)				
7	GWT bored	String	Symbol: GWT _b Unit description: m, ft		Read only - list of GWT bored from GWT table / Borehole+ Well+SPT+PMT	7 Edit (number 9)				Copy All
8	GWT steady	String	Symbol: GWTs Unit description: m_ft		Read only - list of GWT steady from GWT table / Borehole+Well+SPT+PMT	Remove (number 9)				
	Layers	Layers (A Table <u>Thickness</u> (A Number			Borehole+Well+SPT+PMT / Fixed			List of	mapping for export and in	nport
	Depth	Number				Move upwards (number 9)	No	o. Name	Comment	🔶 Add
	Soil pattern	String Pattern and color				- Mous downwards	1	FINE AGS4 Ed. 4.0.		
						(number 9)	2	FINE - EN Standar		
	Data – Basic Stratigraphy Classification according to EN ISO 14688-1 Classification according to EN ISO 14688-2 ROD Notes	Group String String String String String String String String String								Сору
10	Samples	S Table	With depth "from" and optional "to"		Borehole+SPT+PMT / Fixed					All All
	Depth from Depth to	S Number	Number of elements 4			Com.				Paste
	Sample type undisturbed	S Enumeration Enumeration elem	ent			(number 9)	Colum	ins for Cross-Sections (n	umber of columns 4) :	Input co
	disturbed	S Enumeration elem	ent			Paste	Graph	ical representation (nur	mber of items 1) : 🔳 In	put graphical represent

The "Edit data type" dialog window will open. It contains the soil layer data.

	Edit data type										×
— F	arameters of data type										
Тур	e : Table 🔹 Name : 🕥 Layers	•	▼ 🛪 EN Comm	ient : 🥎	Borehole+Well+SPT+PMT / Fixed	• X	A EN Parameters	: 🚷 ch	nanged g	lobal	•
Tab	le type : With layer thickness 👻										
No	. Name		Туре	Column	Parameters		Comment		Add		
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2	Depth	\$	Number	~	Symbol: d 8,89 m 8,89 ft Allow input of string	Read only - a	utomatically determin	ed fro			
3	Soil name	6	String	~		Borehole+W	ell+SPT+PMT / Fixed				
4	Soil pattern	9	Pattern and color	~	Pattern and color	Borehole+W	ell+SPT+PMT / Fixed				
5	Layer description	9	String	~	Multiline string	Borehole+W	ell+SPT+PMT / Fixed				
6	Data - Basic Stratigraphy Classification according to EN ISO 14688-1 Classification according to EN ISO 14688-2 RQD		Group String String String String		Number of elements 5						
	Notes	9	String					E			
								2	Paste		
_(onditional input								unc		
Ma	ster enumerations (unspecified) No enumerations defined for u	using	j as master.								
	Changed Global data type					OK + 🕆	OK + 🖖	🗸 ОК	;	🕻 Can	cel



Click the "Add" button to add a new item.

New table column	×
Input method : create new user data type 🔻	
	🗸 OK 🛛 🗙 Cancel

After confirming with the OK button, describe the created data type.

Rew table column	_		\times
- Parameters of data type-			
Type: String 🔻 Name: 🏦 My Drillability 💌 🛪 EN Comment: 🏦 🔍 🔻 🛪			
Symbol: MD			
Metric : Unit description :			
English : Unit description :			
Multiline string			
Conditional input			
Master enumeration: (unspecified) v No enumerations defined for using as master.			
😭 User data type	dd	🗙 Can	icel

Confirm by clicking the "Add" button, and the data type will be added to the layer data.

/p	: Table 👻 Name : 🕥 Layers		r ≭A EN Comm	nent : 🥎	Borehole+Well+SPT+PMT / Fixed	👻 🛪 EN 🛛 Parameters : 🚷	changed global	
ıbl	e type : With layer thickness 👻							
lo	Name		Туре	Column	Parameters	Comment	👍 Add	
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2	Depth	0	Number	1	Symbol: d 8,89 m 8,89 ft Allow input of string	Read only - automatically determined fr	······································	
	Soil name	\$	String	~		Borehole+Well+SPT+PMT / Fixed	Remove	
	Soil pattern	0	Pattern and color	~	Pattern and color	Borehole+Well+SPT+PMT / Fixed	(number /)	
	Layer description	6	String	~	Multiline string	Borehole+Well+SPT+PMT / Fixed		
;	Data - Basic Stratigraphy Classification according to EN ISO 14688-1 Classification according to EN ISO 14688-2 RQD Notes	10000 00000	Group String String String String String		Number of elements 5		Move upwards (number 7)	
ľ	My Drillability	Â	String	1	Symbol: MD		Parte	
C	onditional input] [



We will stop entering and take a look at how the newly created data is entered. We will go to the borehole editing and borehole layer editing. The new data type "My Drillability" is displayed in the main part of the window.

Edit table row					X
Thickness: t	= <mark>1,50</mark> [m]			Data - Basic	
O Depth : fro	m 4,90 [m] to 6,	40 [m]		Stratigraphy :	Recent
Soil name :	Fill		-	Classification according to EN ISO 14688-1 :	Gr
Soil pattern :	Pattern category :	Color :	Pattern :	Classification according to EN ISO 14688-2 :	
	GEPRODO -	•	$\times \times \times \times \times \times$	RQD :	-
	Search :	Background :	-	Notes :	Easy drilling
	Subcategory :	enter color 🔹	1 Made-up ground		~
l avez deseñation :	Superficial deposits (1 - 83)	•			
Layer description :	coarse GRAVEL with some silt (clayey shale)	and fresh angular cobles up to 15 cm,	, dark grey colour 🛛 🗠		
			~	4	
My Drillability :					
				OK + 🟫	OK + 🔸 🖌 OK 🗙 Cancel

The input is little bit unclear, so we have decided to modify the data. We want "My Drillability" item as part of the "Data – basic" tab on the right side of the dialog window. Therefore, we will go back to template editing and layer data editing. Firstly, we will delete our data type "My Drillability" that we had entered.

ne: Ta	ble 👻 Name: 🔕 Lavers		🛪 FN Comm	ent: 🕥	Borehole+Well+SPT+PMT / Fixed	👻 🕱 FN 🛛 Parameters : 👹	changed global
ble type	: With laver thickness						the group of the second
0.	Name		Туре	Column	Parameters	Comment	Add
Thic	(ness	9 P	Number	1	Symbol: t 8,89 m	General / Fixed	(to the end)
Dept	h	S I	Number	~	8,89 ft Symbol: d 8,89 m 8,89 ft Allow input of string	Read only - automatically determined fro	Edit (number 7)
Soil	name					Borehole+Well+SPT+PMT / Fixed	Remove
Soil	pattern	estion			~	Borehole+Well+SPT+PMT / Fixed	(number /)
Laye	r description	Do you really want to delete selected table item?		ected table item?	Borehole+Well+SPT+PMT / Fixed		
Data St C C Ri N	- Basic ratigraphy assification according to EN ISO 14688-1 assification according to EN ISO 14688-2 2D otes		<u>Yes</u> string String	1 🛇	lo nts 5		Move upware (number 7) Copy
My [librillability	di S	String	1	Symbol: MD		Paste
Condit ster en	onal input umeration : (unspecified) v No enumerations defined for us	ising a	is master.				



Then select the "Data-Basic" table and add our data type to it. Because we have already defined it, it is not necessary to enter it again, but we will select it from the already existing "user data types"

E Diff To	emplate										- ¤ ×
Name: 4	Borehole	· .	TA EN Comment:	a loput data	• A				List of out	aut protocols	
No.	1	Name	Бре	Parameters	Conditional input	Comment	Add	No.	Name	Protocol typ	e 💠 Add
9	Layers Thickne Depth Soil ner	isi me	 Table Number Number Number String 	With layer thickness Number of elements 7		Dorehole+ Well-SPT-PMT / Fixed	 Acid Bo the and) 	2 Borehole -	Soil profile	Sol Profiles	
	Soil pat Leyer d	tem Incription	Pattern and color String				E (before %)				
	Data - I Strat	Basic Sgraphy Charling an anticipation EXTECT Laters 1	🗃 Lort table, nem						= = ×		RD, Copy
	Class	S Idia data type	- Parameters of data type	e Second			(h)			-	1
	Net	Parameters of data type	Type: Group	 Name: 40 Data - Basic 	* AL EN	Comment: 🚭	* 34		-	eport and import	
10	Samples	Type: Table - Name: 6	Nn.	Name	3	gje Parameters	Com	ment	Add (to the early	mment	🖶 Add
	Depth J	Tell among Web launathistering	Stratigraphy Clarification accord	ing to FN (50 14589-1	S Sting		Soli/Pork Test / User	Phot / User	(in the end)		No.
	Sample	time type : with the metores	3 Classification accord	ing to EN ISO 14588-2	6 Sting		Sei/Rock Test / User			-	
	und No.		4 600		6 String	Unit description: [35], [55]	Soil/Rock Test / User		-		
	disti tech	1 Thickness	3 Notes		6 Sting	Multiline string	General / User				
	lenc sam	2 Depth	T.	iew arcup item				×			S Copy
	Semple			nput method : select existing user data	hpe: string +						Pag Paste
- in the	Ducith	3 Soil name		53- Unizbilla	and a second sec					nm 4) :	input columns
	GWT ty	4 Soil pettern		Surger and the						IT Incident	
	UN	5 Layer description		stuppe we						1. Em mporte	aprilica representations
Capability	: madel cres	Stratigraphy Classification according to EN 1							Copy	🔹 🔺 СК	X Careel
		Classification according to FN 2 ROD Notes					the Add	X Cancel	Peste	Ē	E. Add Pictu Project :
			- Conditional input Master enumeration : [ur	specified) - No enemer	ations defined for using as master.					-	lotal : [b]: List of Pict
		Conditional input Master enumeration ((unspecified)	😤 User data type				OK - 🌪		CK X Cancel	÷	List of And
		Changed Global data type	177			СК + 🔮 — ОК - 🚸	✓ DK X Cancel		1900 Ale	1	8

Tip: All data types can be copied/pasted using the buttons in the left bottom part of the table.

B	Copy (number 9)
ē	Paste

We can always see how the data are arranged in the table:

mei 🚳	Borehole *	🛪 EN Comment: 🖬		* 74								
			Input data							List of output proto	icols	
No.	Name	δre	Parameters unit description inc. it	Conditional input	Comment		kil Add according to sample	No.	Nar Facebola Fieldbert	ne .	Protocol type	🕂 Add
9	Layers Thickness Depth	 Si Table Number Number 	With layer thickness Number of elements 6		Borcholo+ Well+SPT+ PMT / Fixed	Ĩ	+ Add (to the end)	2	Borehole - Saž profile	s	oil Profiles	
	Soil name Soil patiern Layer description	 String Pattern and color String 					(≝ İmet (before 9)					
	Data - Bavic Stratigraphy Classification according to EN-SO 14688-1	🔗 Group 🚯 String 🚯 String					7 Fdk (number 8)					PA All
	Classification according to EN ISO 14688-2 RQD Notes	6 String 6 String 6 String					(number 9)		List	of mapping for export	and import	
10	Samples Dects trans	S Table	With depth "from" and optional "to" Number of elements 4		Borehole+SPT-PMT / Fixed		Move upwards (number 9)	N	o. Name.	Comma	ıt	4 Add
	Depth to Sample type undisturbed discurbed technological reak strength	Number Deventation Drumeration element Drumeration element Drumeration element Drumeration element				ļ	Nove downwards (number 9)		FINE - EN Stands	r		
	semple of water other	 Enumeration element Enumeration element Enumeration element 										B Copy Al
-	Sample index	String										😤 Paste
16-	Depth	Vinber	Number of elements 3		Borehole+Wall+SP1+PM17 Fixed		(number 9)	Colum	ns for Cross-Sections	(number of columns 4)	it.	🔳 Input colum
	GWI bored	G Enumeration element					PR Paste	Graph	ical representation ()	number of items 1) :	input gra	phical representation



In the "Field Test" frame, we will check whether the assignment corresponds with our idea. Now the "My Drillability" data is entered in the "Data – Basic" tab.

Edit table row					×
Thickness: 1	t = <mark>4,90</mark> [m]			Data - Basic	
O Depth : fro	0,00 [m] to 4	l,90 [m]		Stratigraphy :	Recent
Soil name :	Fill		•	Classification according to EN ISO 14688-1 :	saCl
Soil pattern :	Pattern category :	Color :	Pattern :	Classification according to EN ISO 14688-2 :	
	GEPRODO -	· · · · · · · · · · · · · · · · · · ·		RQD :	-
	Search :	Background :	-	Notes :	Easy drilling
	Subcategory :	enter color 🔹	1 Made-up ground		~ · · ·
	Superficial deposits (1 - 83)	▼	T made up ground	My Drillability : MD -	
Layer description :	fine grained SAND with some silt, dense, m	ixed with cobles of concrete and piece colour of the soil	es of bricks partly the size \land	ing officiality i	
	is larger than the porchoic diameter, place		~		
					OK + 🦊 🖌 OK 🗶 Cancel

In the next step, we will add new "Samples". We will return to entering the template and gradually select what we want to edit:

- Samples editing
- Editing sample types

In the upper right corner of the window, next to the "Parameters" item, click on the menu button and enable editing of the selected parameters – change the type to "fixed changed". The "Add" button will appear, with which we will enter the new samples

Editter	uplate set									- 🗆 🗙		
lame : 🚘	EM 44	- 🛪 EN	Comment: 🚘	• 7A								
1 Boreh	Name	e	model creation, borehole	Capability			Comment			+ Add (to the end)		Frames
a B Ed	it template		model restion harehole well									- 0 >
4 5 Name	: Ab Borehole	- 2	EN Comment : 🔒		74							
6				Input data						List of outp	ut protocols	
No 7	o. Na GWT bored	ame	Type F String Symbol: GWT _b	arameters Co	nditional input	Com Read only - list of G	ment WT bored from GWT	Add according to sample	No. 1 Rorebo	Name Ja - Field test	Protocol type Field tests	💠 Add
	GWT stands	Edit data type							- 0	× profile	Soil Profiles	
	OTT ALBOY	- Parameters of data typ	Edit table column							- 0	×	
.9	Layers Thickness	Type: Table +	Parameters of data type									
	Depth Soil name	Table type : With depth	Type : Enumeration * Name :	Sample type	• 7A E	N Comment : 5	Borehole+SPT+PMT / F	Fixed • 3	A EN Param	neters : 🚷 changed global		Copy
	Soil pattern Layer description	No. 1. Depth from	No.	Name		Туре	Parameters		Comment	📥 Add		
	Data - Basic Stratigraphy	· soportion	1 undisturbed 2 dicturbed		S Enun	neration element				(to the end)	andimoort	
	Classification accordin Classification accordin	g 2 Depth to	3 technological		S Enun	neration element					nt	Add
	Notes		4 rock strength 5 leachate		S Enun	neration element						
10	My Drillability Samples	3 Sample type	6 sample of water		S Enun	neration element	0					
	Depth from Depth to	disturbed technological	7 other		S Enun	neration element						
	Sample type undisturbed	rock strength leachate										Concerns.
	disturbed technological	sample of water other										他 All
	rock strength leachate	4 Sample index										😤 Paste
	sample of water other										1:	Input colum
	Sample index		•							B Copy	🔣 Input gra	phical representatio
Capabi	lity : model creation, borehole	Marter enumeration : //								😤 Paste	🗸 ОК	X Cancel
-		master enumeration : (t	- Conditional input								-	Them
		Global data type	Master enumeration : (unspecified)	 No enumerations define 	ed for using as master.							90
												Add
												Project :
												Total :
												(00) 1000 0
			Changed Global data type					OK + 🔶	OK+ &	V OK X Can	cel	(m) List o
											and the second sec	A

GE05

First, we add the "Aggressivity" sample. This data type exists in the "Global data library". Select the option "Select global data type" and find the item aggressivity in the menu.

New enumeration element	×
Input method - select global data type - select global data type - select existing user data type create new user data type	Show data types for all countries
	🕂 Add 🗙 Cancel

nput method :	select global data type	• Туре :	Enumeration element	Show data types for all count	rie
-					•
-					
-					
-					
-					
1:100					
1:50		i i			
Adriatic		1			4
iggressivity					٦
Balt after adjus	tment				
za		!			
5					
C+D					
:10-C40					
ambrian					
arboniferous					
onductivity					
retaceous					
evonian					
_					
D		i			
h – reduction	potential	i			
L		i			
ocene		i			
1 2					
1-2					
2					
2 4					
3-4 A					
		-			
5		!			
- ull chemical a	nalysis				
βL	, ,				
6LF					
6LH					
ilM					
IWT		GWT -	any		
GWT bored					
WT steady		i			
neavy metals		i			
Holocene	des sectors a				
niorinated hyd	arocarbons	SDT / F	ived		
nput		SPI/F	ived		
ion of chlorine		5-17-5	ix eu		
lurassic					
K		!			
L					
laver on surface	e				



After pressing the "Add" button, we see that the new type of sample "Aggressivity" has been assigned to the list. The second enumeration item is not in the predefined global library, so we enter a new data type

	lit table column									
— Par	ameters of data type -									
Type :	Enumeration "	Name : 🥎	Sample type	•	🛪 EN Comment :	Borehole+SPT+PMT / Fixed	 ▼ X_A 	EN Parameters	s : 🚷 chang	ed global
No.			Name		Туре	Parameters	C	omment	A a	dd
1 1	undisturbed			0	Enumeration element				" (t	o the end)
2 0	listurbed			6	Enumeration element					
3 t	echnological			6	Enumeration element					
4 1	ock strength			0	Enumeration element					
5 1	eachate			0	Enumeration element					
6 :	ample of water			9	Enumeration element					
7 0	other			5	Enumeration element					
			New enumeration elem	ent new user data type	T		×			
- Co	nditional input		New enumeration elem	ent new user data type	•		×		圈 C A 鬯 P.	opy II aste
— Co Maste	nditional input	pecified)	New enumeration elem	ent new user data type	T		×		層 C A	opy II
— Co Maste	nditional input r enumeration : (uns	pecified)	New enumeration elem	ent new user data type	•	√ 0K	X X Cancel		電 A 译 P	opy II
— Co Maste	nditional input r enumeration : (uns	pecified)	New enumeration elem	ent new user data type	•	■ OK	X X Cancel		醫 C A A	opy II
— Co Maste	nditional input r enumeration : (uns	pecified)	New enumeration elem	ent new user data type	•	✓ OK	X X Cancel		图 C A	opy II aste
— Co Maste	nditional input r enumeration : (uns	pecified)	New enumeration elem	ent new user data type	•	OK .	X X Cancel		图 A 图 P	opy II

New enumeration element			×
- Parameters of data type			
Type: Enumeration element v Name: 🔮 Rock strength - Schmidt v 🛪 EN Comment: 🄮			
Enumeration element has no other parameters.			
🔗 User data type	🕆 Add	🗙 Ca	ancel



Let's look at the result of the assignment.

🗃 Edit table column						- 🗆 X
- Parameters of data	type					
Type : Enumeration	 Name : S Sample type 	• X	A EN Comment :	Borehole+SPT+PMT / Fixed	💌 🛪 EN 🛛 Parameters : 🕻	t changed global 👻
No.	Name		Туре	Parameters	Comment	Add
1 undisturbed		S E	numeration element			(to the end)
2 disturbed		S E	numeration element			Insert
3 technological		S E	numeration element	\boxtimes		:± (before 8)
4 rock strength		S E	numeration element			- Edit
5 leachate		🕤 E	numeration element			(number 8)
6 sample of water		S E	numeration element	\Box		
7 other		S E	numeration element			· Kemove
8 aggressivity		🕤 E	numeration element	A		(number o)
9 Rock strength - S	chmidt	🔒 E	numeration element	RS		
						Move downwards (number 8) Copy (number 8) (number 8) Paste
- Conditional input -						
Master enumeration :	(unspecified) No enumerations d	lefined for using as mast	ter.			
👫 Changed Global	data type				OK + 🛧 OK + 🖖 🖌	OK X Cancel



When editing the borehole, we check that the new samples can be entered and drawn.

Test	parameters							Soil profile
est na	me: B	H1						
oordi	nate : x =	0,	00 [m]	y =	0,00	[m]		1,5- Fill
leigth	: in	put	•	z =	0,00	[m]		3,0-
epth o	of 1. point :			d ₁ =	0,00	[m]		4,5-
) verall	depth :		c	l _{tot} =	24.00	[m]		6.0- FW
Fiel	' Id test genera	ates soil prof	ile		- 1			Sand with trace 3
Lavers	Samples	Table GWT	Data - Protoco	Data -	Test Attachn	nents		fines H
No.~	Depth from	Depth to		ample typ	e	Sample index	🕂 Add	9,0 - Gravelly _ 4 10.5 - 5-
1	4,0	0 6,00	disturbed			2086		E Sandy 6-4
2	8,0	0	aggressivity			2100	(number c)	te 12,0
3	11,0	0	undisturbed			2087	Kemove (number 2)	13,5-weathered
4	23,0	0	rock strength			2095	(ranner a)	1. Jac page
					New t	able row	×	15,0- Shale, 8
					Dept C [Sam] Sam]	h : d = 8,00 Pepth to Dele type : Rock strength – Schmidt Dele index : 2100	[m] •	16,5- Shále, moderately 18,0- weátheréd 19,5- 10 21,0- Shale, slightly weátheréd
						rt Ac	dd 🗙 Cancel	22,5-

The last required data change is to **move the Notes from "Layers" data to "Borehole" data**. This modification is simple – from the section no. 9 "Layers", "Basic data" we will **copy** and remove the data type "Notes".

21					
e: Group 💌 Name: Ab Data - Basic	-	🛪 EN Comm	ent: 🛍	▼ 🛪	
. Name		Туре	Parameters	Comment	Add
Stratigraphy	0	String		Borehole+Well+SPT+PMT / User	(to the end)
Classification according to EN ISO 14688-1	9	String		Soil/Rock Test / User	Insert
Classification according to EN ISO 14688-2	0	String		Soil/Rock Test / User	:± (before 5)
RQD	0	String	Unit description: [%], [%]	Soil/Rock Test / User	- Edit
Notes	3	String	Multiline string	General / User	(number 5)
My Drillability	<u></u>	String	Symbol: MD		
	2	Do you really want	to delete selected group item?		Move upwar (number 5)
				1	Copy (number 5) 習 Paste
Conditional input					



🖶 Print log 🛛 🔒 Import

Edit ten	wiii pas	ste the uata type	NOLES 10 SEC		– Data prote	COI (USING LI	le raste button	•
Name: Ab	Borehole	TA Etit data type	1	11-11-11			- 0 ×	
No.	sample or water	Name Parameters of da	ta type	- T D			Protocol type inid tests	🔶 Add
	aggressivity Rock strength - : Sample index	Schmidt	Name	C Dring	Type Paramete	rs Commi	ent Add oil Profiles	
11	Table GWT Depth GWT type	O 1 2 Location O 2 Documented		String String		General / User General / User		
	GWT bored GWT steady GWT description	S E 4 Evaluated S E 5 Processed S 5 6 Date start		String String	and time Date	General / User General / User General / User		All Copy
12	Data - Protocol Annex no. Location	G S S Foreman		O Date O String	and time Date	General / User General / User	and import	
	Documented Evaluated Processed	Paste data types				×	nt	Add
	Date start Date end Foreman	Notes	s String	Type Paste Replace Will P	Note pepasted as a new data type.			
15	Drilling equipment Drilling Depth from						B Copy	Copy
	Depth to Drilling dia. Casing						Paste	Paste
	Depth from Depth to Casing dia.					F Paste	i: III Input gray	Input columns phical representations
Capability :	model creation, boreh	ole				Close	V OK X Cancel	X Cancel
Bedit ten	Borehole	• R EN Comment:		• 74				- 0 ×
No		Name Inc	Input data	Conditional input	Comment	n o Add	List of output protocols	an and
1401	other aggressivity	Coursealor element Enumeration element Enumeration element			Contribut	Add	Borehole - Field test Field tests Borehole - Soil profile Soil Profiles	
11	Sample index Table GWT	Streng St	With depth	-	Borehole+Well+SPT+PMT / Fixed	(to the end) :王 Insert (before 12)		
	GWT type GWT bored GWT steady	© number © Enumeration © Enumeration element	reasonables of elements 3			·▼ Edit (number 12)		Copy All
12	GWT description	String	Number of elements 9			Remove (number 12)	the of months for most addressed	
	Location Documented Evaluated	String				III> Move upwards (number 12)	No. Name Comment 1 FINE AGS4 Ed. 4.0.	Add
	Processed Date start Date end	영 String 중 Date and time 국 Date and time				Move downwards (number 12)	2 FINE - EN Standar	
13	Foreman Notes Data - Test	 String String Group 	Number of elements 3					
	Drilling equipment Drilling Depth from Depth to	String Table Number						All Copy
	Drilling dia. Casing Depth from	S Number Table Number				B Copy (number 12) Colu	Imns for Cross-Sections (number of columns 4) :	Input column
Canability	Depth to	S Number				▼ Paste Gra	phical representation (number of items 1): III Input g	raphical representation
Λnc	te for t	the whole borehol	e will then he	a added in th	e "Data – Pri	otocol" tab		
			e will then be					1 🗸
8	calt field tes	t properties (borenole)						· ~
— Te	st paramete	ers					Soil profile	
Test	name :	BH1						
Coo	rdinate : x =	0,00 [m]	y = 0,0	00 [m]			1,5- FW	
Heig	th :	input 👻	z = 0,0	00 [m]			3,0-	
Dept	h of 1. poin	t:	d ₁ = 0,0	 00 [m]			4,5-	
Over	all depth :		h = 24 (0 [m]			5.0- EW	
	Field test ge	nerates soil profile					Sand with trace	3
Lav	ers Sample	es Table GWT Data - Protoci	Data - Test Attac	hments			7,5 of fines	-•A
Loy	ers sumpr			- mineries			9,0- Gravelly	4
Ani	nex no. :	A.10					10,5	5-
Loc	ation :	Prague 12					E	-5.3
Do	cumented :	Mr. Smith					Shale, fully	7
Eva	luated :	Eng. Checker					13,5-Weathered	
Pro	cessed :	Mr. Smith					15,0-Shale,	8
Dat	e start :	22.11.2017					16,5- Shale,	9
Dat	e end :	23 11 2017					moderately 18.0- weathered	
4		Ma Varia						
For	eman :	IVIR. Young					19,5-	10
Not	tes :	Sunny, 17C No complication during drilli	na				21,0-Shale, slightly	
		unit					22,5-	
							240	
							24,0	

We will paste the data type "Notes" to section no. 12 – "Data protocol" (using the "Paste" button)

X Cancel

🗸 OK



We enter the data "My Drillability" for the individual layers. The fastest way to complete the data is to open the first layer in the borehole, enter the drill value, and use the OK arrow button to move to the next layer.

Edit table row					×
Thickness: 1	t = 1,50 [m]			Data - Basic	
O Depth : fro	om 4,90 [m] to 6	,40 [m]		Stratigraphy :	Recent
Soil name :	Fill		▼	Classification according to EN ISO 14688-1 :	Gr
Soil pattern :	Pattern category :	Color:	Pattern :	Classification according to EN ISO 14688-2 :	
	GEPRODO 👻	•		RQD :	-
	Search :	Background :	-	My Drillability : MD =	1
	Subcategory :	enter color 🔹			
	Superficial deposits (1 - 83) -	•	1 Made-up ground		
Layer description :	coarse GRAVEL with some silt (clayey shale	and fresh angular cobles up to 15 cm	, dark grey colour 🔥		
			~		
				OK + 🛧	OK + 🦊 🖌 OK 🗙 Cancel

By doing this, we have the template data, and the data for the borehole entered. Now we need to adjust the output protocols to match the newly defined data. We go to the Output protocols section, and edit the "Borehole – field test" output protocol.

ne: Ab	Borehole	* 7A	EN Comment :	a	▼ 7A						
				Input data						List of output protocols	
No.	Name		Type	Parameters	Conditional input	Comment	Ls Add	No.	Name	Protocol	Add
1	Test name	0	String			General / Fixed	according to sample	1 8	prehole - Field test	Field tests	Fdit
2	Overall depth	0	Number	Symbol: d _{tot} 8,89 m 8,89 ft		Read only - automatically determined from data of field test / General / Fixed	Add (to the end)	2 8	orehole - Soil profile	Soil Profile	s (number 1)
3	Coordinate X	0	Number	8,89 m 8,89 ft		General / Fixed					(number 1)
4	Coordinate Y	0	Number	8,89 m 8,89 ft		General / Fixed					Copy (number 1)
5	Coordinate Z	0	Number	8,89 m 8,89 ft		General / Fixed					
б	Vertical offset of the origin	0	Number	Symbol: d _b 8,89 m 8,89 ft		General / Fixed		No	List of	mapping for export and imp	ort de Add
7	GWT bored	0	String	Symbol: GWT _b Unit description: m, ft		Read only - list of GWT bored from GWT table / Borehole+Well+SPT+PMT		1 2	FINE AGS4 Ed. 4.0. FINE - EN Standar		
8	GWT steady	0	String	Symbol: GWT _a Unit description: m, ft		Read only - list of GWT steady from GWT table / Borehole+Well+SPT+PMT					
9	Layers Thickness Depth Sultance	000	Table Number Number	With layer thickness Number of elements 6		Borehole+Well+SPT+PMT / Fixed					m Conv
	Soil pattern	õ	Pattern and color								B All
	Layer description	0	String								P& Paste
	Stratigraphy Classification according to EN ISO 14688-1	00	String String				B All	Columns	for Cross-Sections (n	umber of columns 4) :	Input colu
	Classification according to EN ISO 14688-2	0	String			-	Paste	Graphic	I representation (nur	mber of items 1) : 🔳 Inpu	graphical representat

A new window for editing the output log will open. The window contains three tabs.

	Parameters		Scale		Tables		Pag	per format			Margins			Font and text		Pre	view
e: Ab Borehole - Field at : Table - Colur col type : Field tests er table Columns Bot	itest nn - Table 👻	▼ 34 EN	 ✓ one page ✓ two pages ✓ 1 : 50 ✓ 1 : 100 	Frame Thicknes Innerlines Thicknes Height Ro	ss : 0,40 [mm ss : 0,20 [mm w : 5,0 [mm	n] Color:	Paper size : Layout :	A4 • portrait •	Top :	15,0 [mm 15,0 [mm	Bottom :	15,0 [m 15,0 [m	m] Defa	sult (Arial)	BH1	eld test :	Print p
			A:1,0	B:1,0	C:1,0	D:10	E:1,0	F:1,0	G	: 1,0	H:1,0	1:	1,0	J::1,0		*	Table repe on first p Column :
[1:2,0		Boring a. s. Kamínkou 2	4,Praha,156	Soil Boring			Log of Boring						BH1			Row :
1	2 : 1,0		ject: /	Apartment bu	uilding "Moo	nlighting" - Geo	logical su	irvey									💠 Add
1	3 : 1,0		ject ID: A	AA_0014 - 20)19	Annex no.: A.1	G	Drilling equi	pment:	H	lütte 202 T	F					GeoClint
1	4:1,0	Loc	ation: F	Prague 12			5	Overall dep	th:	2	4,00 m	B	orehol	e position:			Eth Cop
[5:1,0	Date	e start: 2	22.11.2017	Foreman: I	Mr. Young		Ground wat	er table:	:		Coordi	nate X:	0,00			table
[6:1,0	Date	e end: 2	23.11.2017	Documented: I	Mr. Smith		GWT bored	15,80) m		Coordi	nate Y:	0,00			
1	7 : 1,0	Sca	ile: d	one page				GWT steady	: 12,50	m		Coordi	nate Z:	0,00 m			Zoom :
[8:1,0				Drilling:						Casing:						
	9:1,0		Depth fro	m	Depth to	Drilling	dia.	Depth	from		Depth to		Ca	asing dia.			() (the set of a
1	10 : 1,0			0,00 m	20,00	0 m	195 mm	-	0,00	m	20	0,00 m		191 mm			
	11:1,0		2	20,00 m	24,00	0 m	156 mm										



Switch to the Columns tab. On the screen, we see the form of the original protocol. The column "I" is empty, because we have already deleted the Notes data. Therefore, we delete the column



We will add a new column between the F and G columns, where we will display the "My Drillability" data.

	relativesers		scale			aures					raper torns	it is a second s			margins			Font and text		Pr	eview
Ab Ba	orehole - Field test	▼ 74 EN	🖌 one page	Frame	Thickness :	0,40	[mm] Colo	:		- Pape	rsize: A4	•	Top :	15,0 [[mm] Bottom	: 15,0	[mm]	Default (Arial)	-	Field test :	6
1	Table - Column - Table 💌		✓ two pages ✓ 1:50	Inner lines	Thickness :	0,20	[mm] Colo	:	-	Layor	ut : portrai	•	Left :	15,0 [[mm] Right :	15,0	[mm]			BH1	Print pr
ol type :	Field tests 🔹		1:100	Height	Row :	5,0	[mm] For	4	3,5	[mm]											
table C	olumns Bottom table																				
- Internet	langest second second					and least		1 mar	l a a l	(a.15)		14.776		1							Header rej
						ł.	3	591	-	2				-							on each p
					1.68	the second	BH1 MO	and a second	A OD	ŝ	L	yers descr	iption								Column
						-14	in the second se	8 <u>8</u> ±	æ	ě.											Add
							luss.														¥ Rem
						1.05-															Row
						200-		540		0.05 - 4.90	Fill: Energrained SP of concrete and piec	 with some r with some r or bricks part 	FL dense, mixed by the size is larg	per than the							de Add
						4:00-					are are an area.	and variable of a			1	insert column	8	×			¥ 0
						5.00-	210	Q.	11	4.90 - 6.40	Fill cares GRAVE main robin unit	Carlfrourna oil More, slack or	(Staywy Ahdel) a ry colour	deed been		incert column	Retur	ere Fred G .			CaroClini
						7/0-		100	1.1	5.42 5.49	Sand with your of a shreet, runt brown	ies medium gr	and with some	frie sol.		Highly Column	as perv	een rang of s			Geocipi
						8.00- August	171 T + X210	-		100.000	Gravely clay hard state), brown	gand particles	apia 10 mm (w	attest		Number:		1			Btabl
						12.00- OD	an log	SHO	11	9,40 - 10,00	Sandy clay: hard, w intro dis. brown	th survey places	d gard (garls	0.aprile 55		1	ОК	X Cancel			
						11,02-	ricity	202		10,60 - 12,00	Sandy clay: with an up to filmm, sand	to gravel, hard. Ens. mics ind	gravel - sub ang alled, ly-necolo	plar shine bir	Ļ	Laurenter					
						12.00-	A 12	-	1 [12.00, 14.00	State, My weather	et residuel suf	stay sharacter -	with small							Zoom :
						16.00-	26.6				State westernt in	toraticio care a	etal plane, ge	why institute.							100%
						18.02-	7 11	0	0	14,80-15,80	parts 15-50 rem, an planes, lasseminati	e andros	ac and Smonler	an futution							
						17,02- 18,00-			- 25	15.80 - 14,30	Shahn, maateraaniy v 10-50 mm, genity in gray	eathered layer Gran, weak in:	el, dill sharp fra alle anly strong	grants wei, derk							
						200- 200- 200-			- 17-	18,30 - 26,00	State, slighty west included, wet (Selar	ernt maleais iol - arder will	strong, few layer er taffet), dæk ge	rsal, silongify ey							
						34.00	111														
																				>	

After creating the column, click on it and select what you want to display in the cell. Select the "Test dataname" option and select it from the list. The edited cell is shown in light blue.





Select the "My Drillability" and then in the window edit how we want the cell displayed. When editing, the borehole drawing is immediately redrawn.

	Test data - name					
	Name	Symbol	Unit			
	Thickness	t	m			
	Depth	d	m			
	Soil name					
	Soil pattern					
	Layer description					
	Stratigraphy					
	Classification according to EN ISO 14688-1					
	Classification according to EN ISO 14688-2					
	RQD		[%]			
	My Drillability	MD				
	Samples					
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After entering the column heading cell, enter the second cell – the contents of the column. The column type is "Text description" and we enter "My Drillability" as data source. The edited cell is again shown in light blue.

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GE05

The picture with the drawing can be viewed using the mouse wheel resp. the control buttons. You can zoom in and check that the entries are correct.

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Now switch to the "Bottom table" tab and add a new column



GEO5



The top cell of the column will contain the "Test data - name" and the item "Notes"

The bottom cell of the column will contain the "Test data – content" and the same item "Notes"



The bottom table is ready.





The new template is done – we can print the result for check.





The template set is now created. In the template administrator, we can set the template set as default. It will be set as default in each new task.

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