

Export gINT Geotechnical Data to GEOPAK

Lesson Overview

This lesson will prepare you to export geotechnical data from gINT to GEOPAK

Lesson Objectives

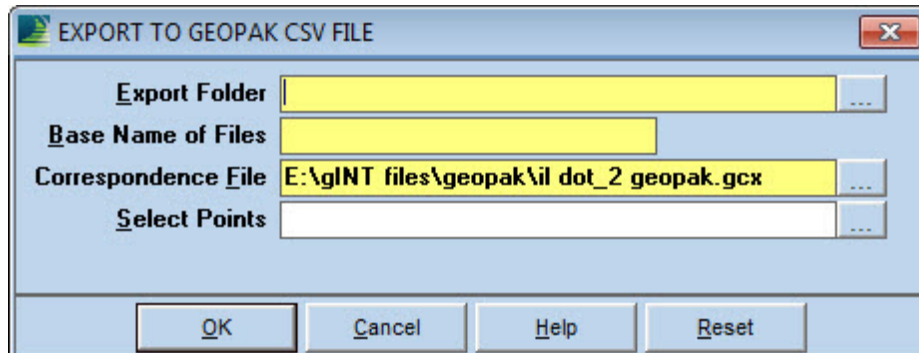
After completing this module, you will be able to:

- Export geotechnical data from gINT to .csv format to be imported in to GEOPAK

Export to GEOPAK File

In gINT under File > Import/Export there are two GEOPAK export options: Export to .gtd file or export to .csv files. This lesson will focus on .csv format export.

Upon selecting export to .csv files the following dialogue box will appear.



The first three items (folder, base name of files and correspondence file) are in yellow and therefore are required for the export to occur.

Folder is the path to the folder the files are to be saved

Base Name of the Files is the basic name of the files. There are three files that are exported: a .brh, .mtl and .spt (borehole, material and SPT, respectively). They each have the same base name. It is the extension that differentiates the file.

A correspondence file is how information is mapped from the structure in gINT to the comma delimited structure required to be imported by GEOPAK.

Selecting the points you want exported lets you define which points to export if you do not want to export all of them.

You will need to construct a Correspondence File that is specific to your gINT database structure. You will use the Data Design>Correspondence Files application to do so. In that application you will need to specify a source and target file. The source will be your gINT database structure. You can select a gINT project file for this purpose but we recommend using your Data Template file.

Your target file will be a .CSV file created in an ASCII text editor.

When you want to export data from gINT to a GEOPAK file using the **Export to GEOPAK CSV Format** command you will need to create a correspondence file. The details of the file you need to create are as follows:

```
**BRH
borehole_name,description,chain_name,station,offset,depth,water_elev_0,water_elev_24,water_elev_type,rok_elev,rok_elev_type,elevation,location_point_x,location_point_y
**MTL
borehole_name,material_name,type_of_elev,description,doc_or_se,include_rock_data,record_percentage,required_percentage
**SPT
borehole_name,type_of_elev,doc_or_se,total_count,count_1,count_2,count_3
```

① The information below each ****XXX** item should be all on one line.

GEOPAK currently supports the following data groups:

****BRH** (borehole)

****MTL** (material)

****SPT** (standard penetration test)

On export, each data group is sent to a different file. You can name the data groups anything you wish. The first three characters of the group name is used as the file extension.

Therefore, if you specified the file name “my data” in the dialog, three files called “my data.brh”, “my data.mtl”, and “my data.spt” would be generated to the specified folder.

These three extensions are the current default extensions recognized by GEOPAK.

The next line under the ****** lines are the names of the data fields that are supported. The BRH and MTL field name lines wrap in this document but will be all on one line when pasted to a text file.

gINT has no internal knowledge of the GEOPAK groups and data fields. gINT obtains that information from this target file specification. If GEOPAK adds new groups or data fields, you can update this file appropriately.

Vertical position data in this data structure can be depth below ground surface (called “depth of cover” or “DOC” in the GEOPAK documentation) or elevation (called “strata” or “se” in the GEOPAK documentation).

The following fields specify which values you are providing:

Group	Field	Description
BRH	water_elev_type	<ul style="list-style-type: none"> Specified the data type in the water_elev_0 and water_elev_24 fields. 0 = DOC, 1 = SE
BRH	rok_elev_type	<ul style="list-style-type: none"> Specifies the data type in the rok_elev field. 0 = DOC, 1 = SE
MTL	type_of_elev	<ul style="list-style-type: none"> Specifies the data type in the doc_or_se field. DOC or SE (not 0 or 1). Note that the doc_or_se field contains the depth or elevation of each material BOTTOM level (not the top)
SPT	type_of_elev	<ul style="list-style-type: none"> Specifies the data type in the doc_or_se field. DOC or SE (not 0 or 1). The doc_or_se field contains the depth or elevation of the test

Two other fields require some explanation:

Group	Field	Description
BRH	rok_elev	<ul style="list-style-type: none"> This field is referred to as "Refusal" in the geotechnical dialogs within GEOPAK
MTL	include_rock_data	<ul style="list-style-type: none"> 1 = Yes, 0 = No. This field is referred to as "Core Data" in the geotechnical dialogs within GEOPAK

Summary and Review

Summary

You are now able to:

- Export geotechnical data from gINT to .csv format to be imported in to GEOPAK

