

## Quarry and landfill hints

Note that Landfill cell floor design is documented in the menu item *3D utilities, Draw cell floor*

### Edge of extraction to base or benching

Starting with a ground model representing the existing site and a 2D Polyline representing the edge of extraction.

#### Step 1

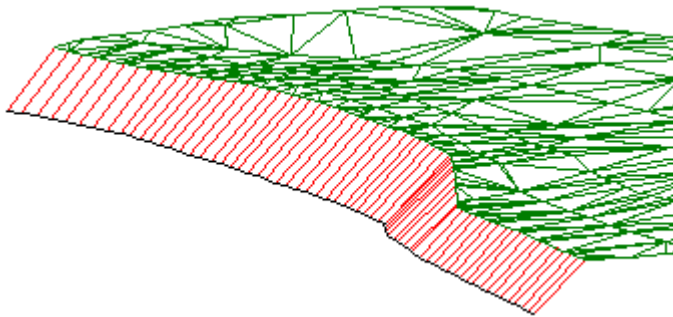
*Ground Modelling, Drape, Drape entities* to convert the 2D Polyline into a 3D Polyline.

#### Step 2

A base or benching surface needs to be defined as a ground model for the embankment program to “look down to”. Use menu item *Ground Modelling, Create model, Uniform surface*. If this is horizontal just pick any point, enter the level, Return and enter a model name. If the benching surface is not horizontal use menu item *3D utilities, Enquire and define Slope* before creating the uniform surface to fix two or three points that the uniform surface will be made from.

#### Step 3

*Ground Modelling, Embankments* to draw embankments from the edge of extraction 3D Polyline to the surface created in step 2 above. Typical settings are shown here :-



Offset interval	5.000		
Cut:	45.000 deg	100.000 %	1: 1.000
Fill:	45.000 deg	100.000 %	1: 1.000
<input checked="" type="radio"/> Up and Down <input type="radio"/> Up only <input type="radio"/> Down only			
Start Chainage	0.000		
End Chainage	END		
Max angle around vertices			
<input type="checkbox"/> Write Report File		<input checked="" type="checkbox"/> 3D Polylines	
<input type="checkbox"/> Offsets at vertices		<input type="checkbox"/> 3D Faces	

#### Step 4

By using *3D Polylines, Offset* to fix the other benching edge from the initial one defined in item 3 above. The process can now be repeated going down to further benching surfaces. Confirm that that the results look OK by creating a section from the model suitably located by a 2D Polyline and one from the design (the 3D Polylines representing tops and bottoms of the embankments and benching edges) etc. Draw the existing section and superimpose the design one :-



