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BUSINESS CENTER – HCE™
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Subsurface Strata Definition based on Drillhole Data Version 2.20

The data shown herein is that to be used in performing training on the BC-HCE v2.20 Takeoff module in connection with the series of project files stating with the one named *Takeoff Training Example 1 - starting point.vce*. The following screen snaps provide the information needed in order to define the subsurface strata and for the entry of the drill hole data needed to locate each stratum over the site. Figure 1 shows the *Define Strata* dialog, with the necessary strata and related materials defined as depth surfaces.

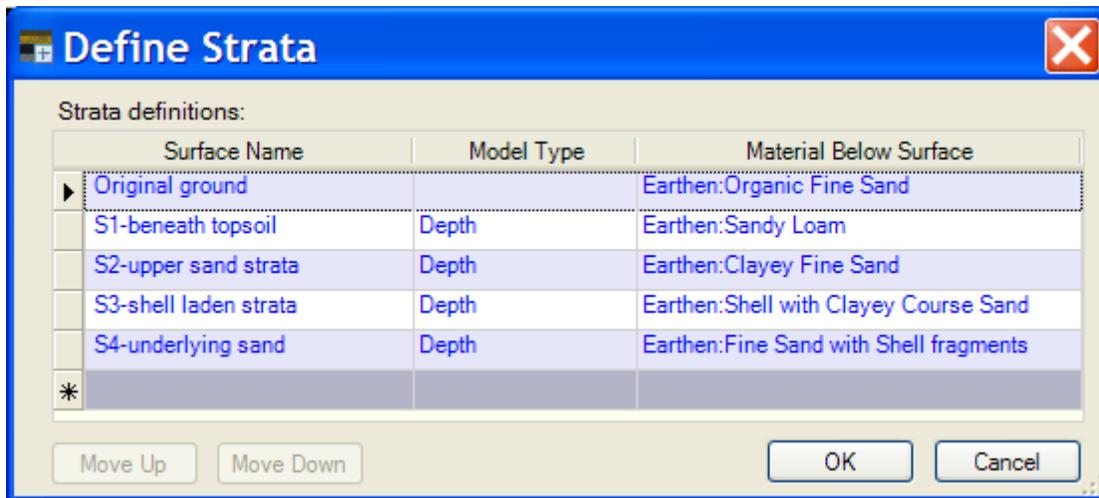


Figure 1 – In Situ Subsurface Strata Definitions

The screen snaps that follow contain the drill hole data needed to produce the same strata as everyone else in the class, thereby consistently defining those surfaces so that report results will be comparable. The *Properties* dialog and the *Drillhole Stratum Settings* for each of nine drill holes are shown. You should enter the data exactly as shown here.

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Drillhole 1

Properties

Drillhole
Drillhole 1

Drillhole (1)

Appearance

Name: Drillhole 1
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 794143.820
Easting: 8507875.401
Elevation: 454.982

Drillhole Stratum Settings

Drillhole name: Drillhole 1

Entry Method

Elevation
 Depth
 Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		454.982		
	Earthen:Organic Fine Sand			0.550
S1-beneath topsoil		454.432	0.550	
	Earthen:Sandy Loam			1.250
S2-upper sand strata		453.182	1.800	
	Earthen:Clayey Fine Sand			2.240
S3-shell laden strata		450.942	4.040	
	Earthen:Shell with Clayey Course Sand			1.640
S4-underlying sand		449.302	5.680	
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Drillhole 2

Properties

Drillhole
Drillhole 2

Drillhole (1)

Appearance

Name: Drillhole 2
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793455.406
Easting: 8508264.890
Elevation: 451.898

Drillhole Stratum Settings

Drillhole name: Drillhole 2

Entry Method

Elevation
 Depth
 Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		451.898		
	Earthen:Organic Fine Sand			0.750
S1-beneath topsoil		451.148	0.750	
	Earthen:Sandy Loam			1.550
S2-upper sand strata		449.598	2.300	
	Earthen:Clayey Fine Sand			0.950
S3-shell laden strata		448.648	3.250	
	Earthen:Shell with Clayey Course Sand			3.650
S4-underlying sand		444.998	6.900	
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Drillhole 3

Drillhole Stratum Settings

Drillhole name: Drillhole 3

Entry Method

Elevation

Depth

Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		451.541		
S1-beneath topsoil	Earthen:Organic Fine Sand			0.600
S2-upper sand strata	Earthen:Sandy Loam	450.941	0.600	1.720
S3-shell laden strata	Earthen:Clayey Fine Sand	449.221	2.320	3.120
S4-underlying sand	Earthen:Shell with Clayey Course Sand	446.101	5.440	1.580
	Earthen:Fine Sand with Shell fragments	444.521	7.020	

OK Cancel

Properties

Drillhole
Drillhole 3

Drillhole (1)

Appearance

Name: Drillhole 3

Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793617.785

Easting: 8507868.126

Elevation: 451.541

Drillhole 4

Drillhole Stratum Settings

Drillhole name: Drillhole 4

Entry Method

Elevation

Depth

Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		454.452		
S1-beneath topsoil	Earthen:Organic Fine Sand			0.700
S2-upper sand strata	Earthen:Sandy Loam	453.752	0.700	0.920
S3-shell laden strata	Earthen:Clayey Fine Sand	452.832	1.620	2.950
S4-underlying sand	Earthen:Shell with Clayey Course Sand	449.882	4.570	1.790
	Earthen:Fine Sand with Shell fragments	448.092	6.360	

OK Cancel

Properties

Drillhole
Drillhole 4

Drillhole (1)

Appearance

Name: Drillhole 4

Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 794069.067

Easting: 8508179.296

Elevation: 454.452

Drillhole 5

Properties

Drillhole
Drillhole 5

Drillhole (1)

Appearance

Name: Drillhole 5
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793737.809
Easting: 8508253.917
Elevation: 453.642

Drillhole Stratum Settings

Drillhole name: Drillhole 5

Entry Method

Elevation
 Depth
 Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		453.642		
	Earthen:Organic Fine Sand			0.700
S1-beneath topsoil		452.942	0.700	
	Earthen:Sandy Loam			2.650
S2-upper sand strata		450.292	3.350	
	Earthen:Clayey Fine Sand			2.890
S3-shell laden strata		447.402	6.240	
	Earthen:Shell with Clayey Course Sand			2.250
S4-underlying sand		445.152	8.490	
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Drillhole 6

Properties

Drillhole
Drillhole 6

Drillhole (1)

Appearance

Name: Drillhole 6
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793760.099
Easting: 8508025.871
Elevation: 452.519

Drillhole Stratum Settings

Drillhole name: Drillhole 6

Entry Method

Elevation
 Depth
 Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		452.519		
	Earthen:Organic Fine Sand			0.400
S1-beneath topsoil		452.119	0.400	
	Earthen:Sandy Loam			2.050
S2-upper sand strata		450.069	2.450	
	Earthen:Clayey Fine Sand			3.560
S3-shell laden strata		446.509	6.010	
	Earthen:Shell with Clayey Course Sand			1.740
S4-underlying sand		444.769	7.750	
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Drillhole 7

Drillhole Stratum Settings

Drillhole name: Drillhole 7

Entry Method:

- Elevation
- Depth
- Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		452.954		
S1-beneath topsoil	Earthen:Organic Fine Sand	452.404	0.550	0.550
S2-upper sand strata	Earthen:Sandy Loam	450.804	2.150	1.600
S3-shell laden strata	Earthen:Clayey Fine Sand	448.054	4.900	2.750
S4-underlying sand	Earthen:Shell with Clayey Course Sand	446.764	6.190	1.290
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Properties

Drillhole 7

Drillhole (1)

Appearance

Name: Drillhole 7
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793922.988
Easting: 8508147.610
Elevation: 452.954

Drillhole 8

Drillhole Stratum Settings

Drillhole name: Drillhole 8

Entry Method:

- Elevation
- Depth
- Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		451.692		
S1-beneath topsoil	Earthen:Organic Fine Sand	450.992	0.700	0.700
S2-upper sand strata	Earthen:Sandy Loam	450.312	1.380	0.680
S3-shell laden strata	Earthen:Clayey Fine Sand	447.262	4.430	3.050
S4-underlying sand	Earthen:Shell with Clayey Course Sand	445.992	5.700	1.270
	Earthen:Fine Sand with Shell fragments			

OK Cancel

Properties

Drillhole 8

Drillhole (1)

Appearance

Name: Drillhole 8
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793569.775
Easting: 8508091.027
Elevation: 451.692

Drillhole 9

Properties

Drillhole
Drillhole 9

Drillhole (1)

Appearance

Name: Drillhole 9
Color: By Layer

Layer

Layer: Soil Borings

Coordinate

Northing: 793396.598
Easting: 8507960.716
Elevation: 451.915

Drillhole Stratum Settings

Drillhole name: Drillhole 9

Entry Method

Elevation
 Depth
 Thickness

Surface Name	Material	Elevation	Depth	Thickness (ft)
Original ground		451.915		
S1-beneath topsoil	Earthen:Organic Fine Sand	451.365	0.550	0.550
S2-upper sand strata	Earthen:Sandy Loam	449.885	2.030	1.480
S3-shell laden strata	Earthen:Clayey Fine Sand	447.235	4.680	2.650
S4-underlying sand	Earthen:Shell with Clayey Course Sand	445.855	6.060	1.380
	Earthen:Fine Sand with Shell fragments			