

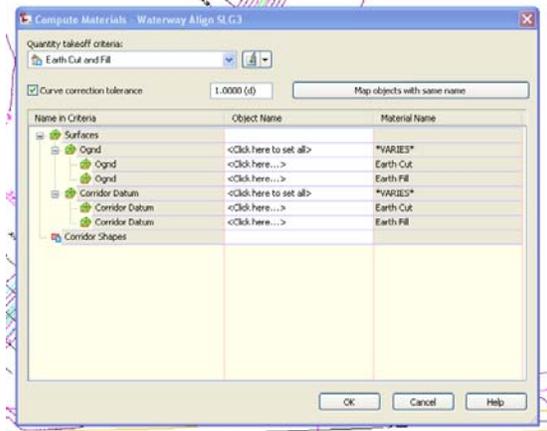
VOLUMES FROM SECTIONS

This quick reference guide covers the process of calculating cut and fill volumes from a set of sections along an alignment. This example assumes that a corridor and a surface from that corridor have been developed which represent a simple waterway and that sections have been developed along the corridor alignment.

The following quick reference guides contain additional information that may also be of use:

- Developing Finished Ground Profiles
- Simple Corridors
- Developing Sections

1. From the Sections drop-down menu, select *Compute Materials...*
2. The *Select a Sample Line Group* window will appear. Select the alignment and sample line group that you want to use to calculate quantities. Click on the *OK* button to proceed.
3. The *Compute Materials* window will appear.



The default quantity takeoff criteria style in the Minnesota drawing template is the Earth Cut and Fill criteria. This criteria calculates earth cut and fill volumes between an original ground surface and a corridor datum.

In the Object Name column, click on the cell with the label <Click here to set all> next to Ognd in the list of surfaces and select the original ground surface. Also click on the cell with the <Click here to set all> label next to Corridor Datum in the list of surfaces and select the surface that represents the waterway corridor surface.

Click on the *OK* button to process the sections and return to the drawing.

4. To obtain a volume report, select *Generate Volume Report...* from the *Sections* drop-down menu. The *Report Quantities* window will appear where you will select the alignment, sample line group and material list. A default style sheet for reporting earthwork quantities will be set up.
5. Once you click on the *OK* button in the *Report Quantities* window, the program will open a web page which will display your volume report. You may receive a message that asks you for permission to run scripts. Answer yes if this message window appears to continue to the report.

Volume Report

Project: C:\temp\Volumes from Sections_1_1_6281.sv\$

Alignment: Waterway Align
 Sample Line Group: Waterway Align SLO6
 Start Sta: 0+00.000
 End Sta: 6+92.831

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
0+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+25.000	11.29	5.23	5.23	0.00	0.00	5.23	5.23	0.00	5.23
0+50.000	18.06	13.59	13.59	0.00	0.00	18.81	18.81	0.00	18.81
0+75.000	25.11	19.99	19.99	0.00	0.00	38.80	38.80	0.00	38.80
1+00.000	31.86	26.37	26.37	0.00	0.00	65.17	65.17	0.00	65.17
1+25.000	37.73	32.22	32.22	0.00	0.00	97.39	97.39	0.00	97.39
1+50.000	43.92	37.80	37.80	0.00	0.00	135.19	135.19	0.00	135.19
1+59.199	3.30	8.04	8.04	0.00	0.00	143.24	143.24	0.00	143.24