



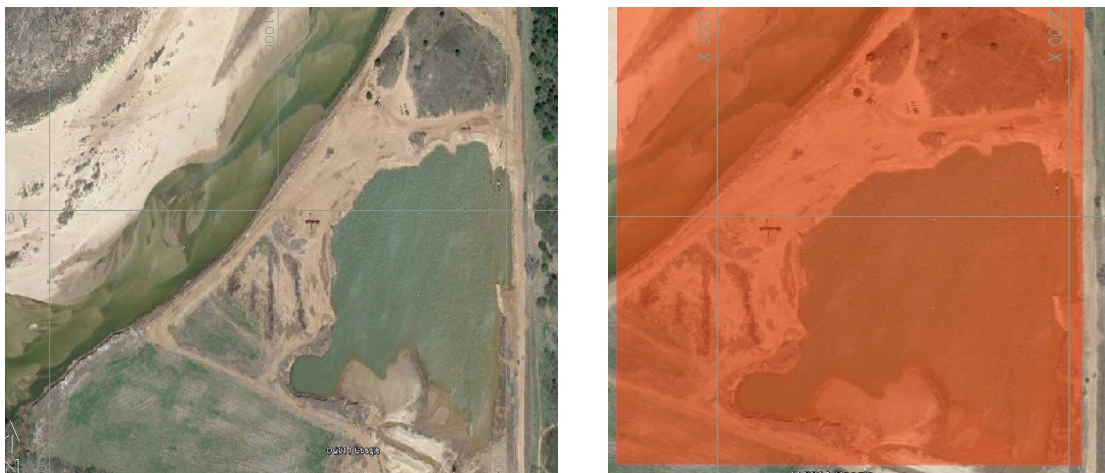
Clipping a Matrix File Workaround

By Roy Goyette

Although you can not directly clip a matrix file in HYPACK®, you can use a work-around to get the same results.

1. **Create a matrix file that covers the entire area that you want to dredge.**

FIGURE 1. Project Area (left) and Matrix (right)



2. **Create the border file of the area to which you want to clip the matrix.** Remember to make your last click in the BORDER EDITOR a right-click in the area you want to keep either inside or outside the polygon. In this example, I want to keep the inside.

FIGURE 2. Border File Surrounding the Project Area

Although HYPACK® doesn't allow you to clip a matrix file, you *can* clip an XYZ file. You can convert a matrix file to an XYZ file in the TIN MODEL program.

3. **Load the matrix into TIN MODEL.**

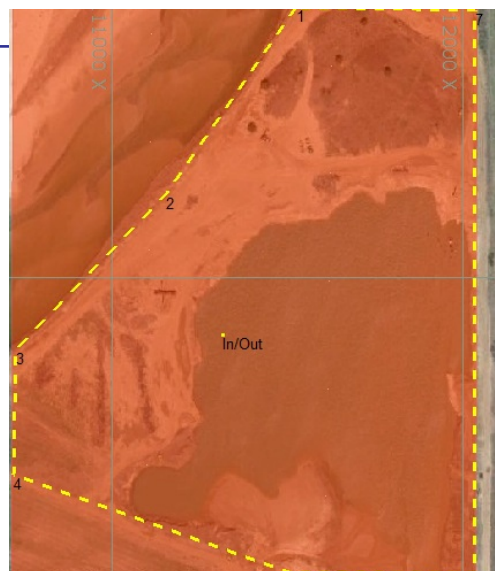
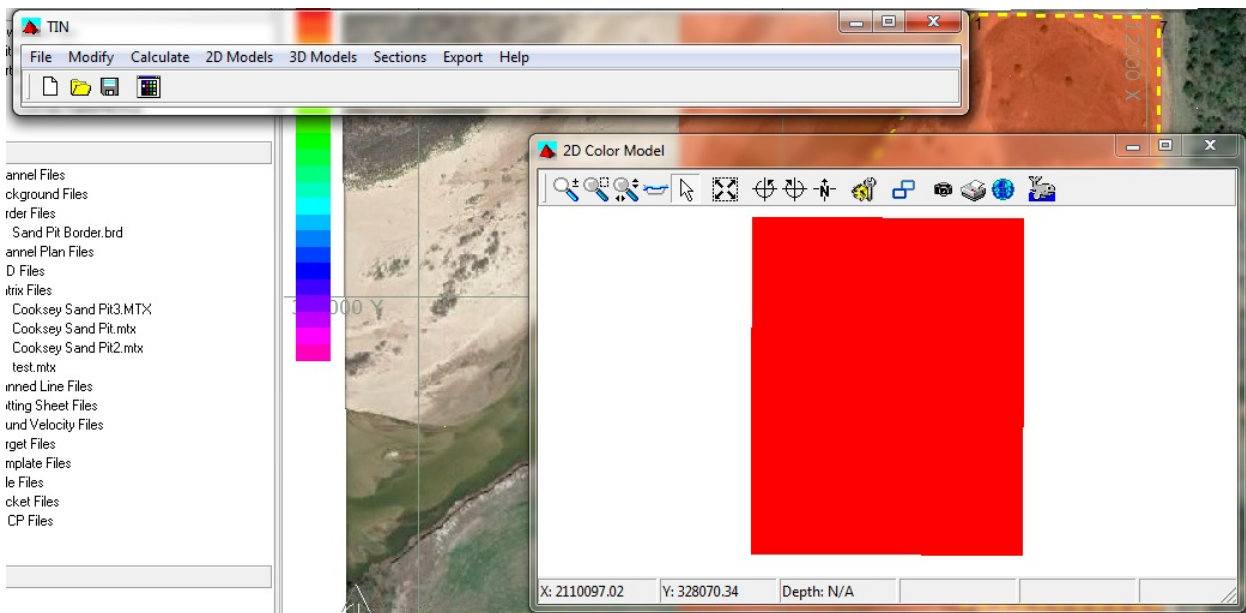
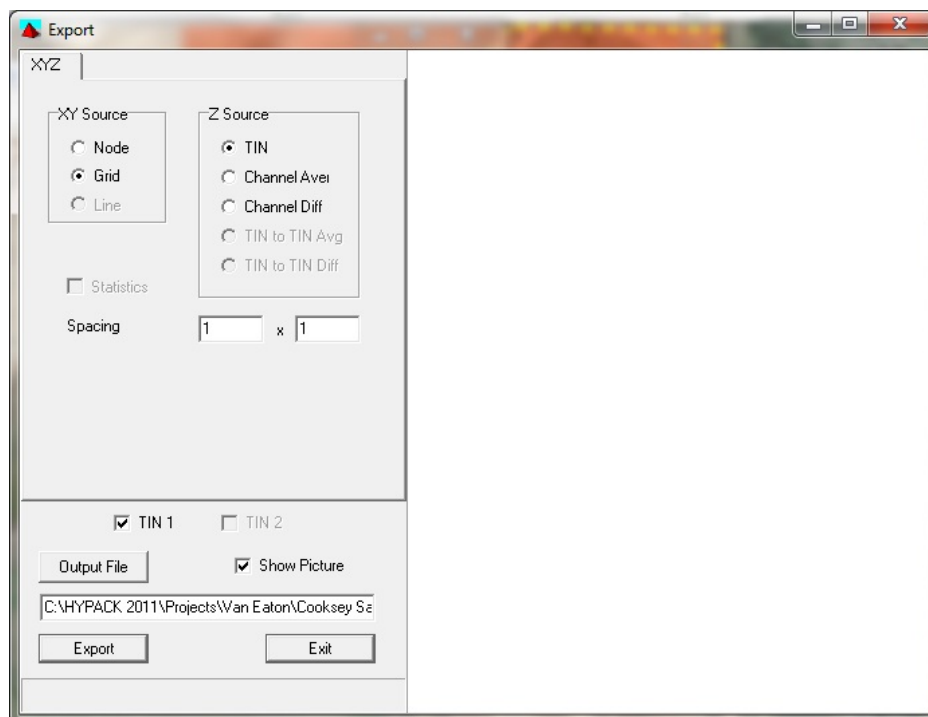


FIGURE 3. The Original Matrix in TIN MODEL



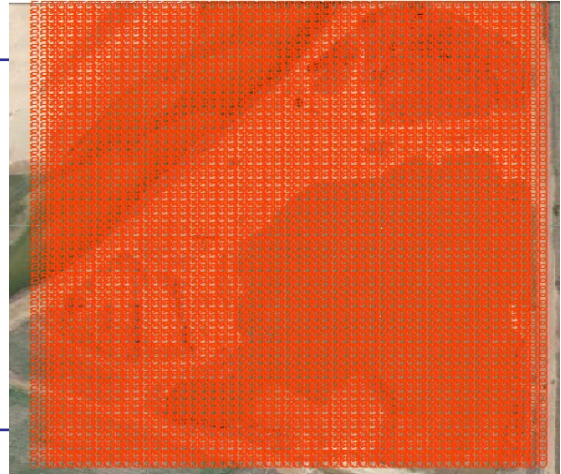
4. **Select EXPORT-XYZ and enter your export parameters.** In this example:
- XY Source = Grid
 - Z-Source=TIN
 - Grid Spacing = 1 X 1.

FIGURE 4. Exporting the Data to an XYZ File



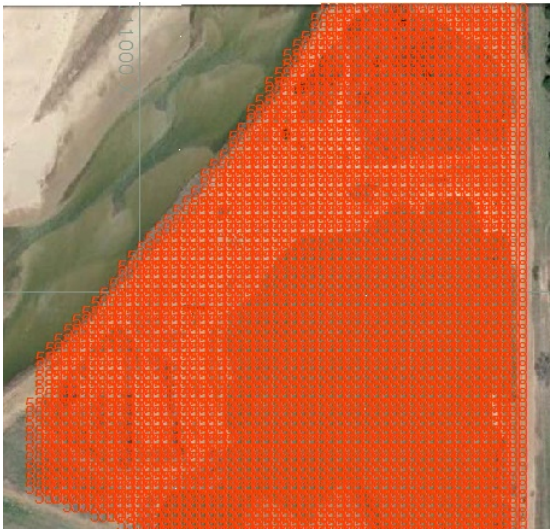
5. **Enter an output file name.** Click [Output File] and type a name for the output.
6. **Click [Export].** You now have a gridded XYZ file that you can clip.

FIGURE 5. *Gridded XYZ Data Exported from TIN MODEL*



7. **Clip the XYZ to the border file.**
 - a. Right -click on your XYZ file in the HYPACK® Projects list
 - b. Select 'Clip to Border File' and choose the border file you created earlier.
8. **Save your results** to an XYZ with a new name.

FIGURE 6. *Clipped XYZ Data*



9. **Bring the clipped XYZ back into the TIN MODEL program** and this time, export the clipped XYZ as a matrix file.

FIGURE 7. *The Final Clipped Matrix*

