Lesson 2 - 3D Display of Integrated Publicly Available Data

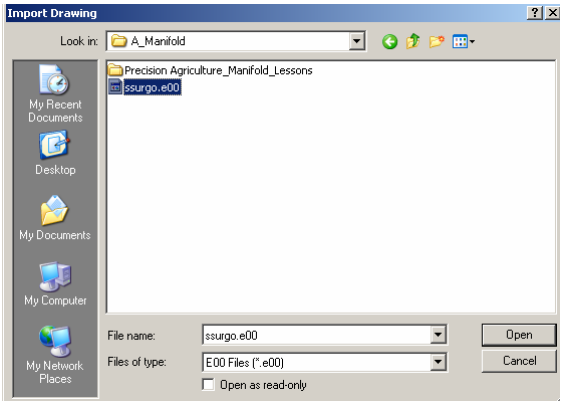
Exercise 2-4

Objective: Import and display of soil series boundary map (exercise 1-4).

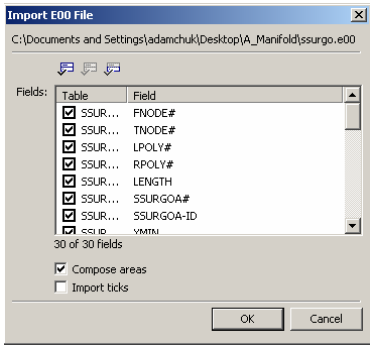
1. **File-Open *Project_2-3.map***.

2. Choose **File-Import-Drawing** and navigate to the desired drawing file.

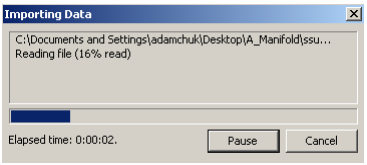
3. In the popup **Import Drawing** dialog box select ***E00 Files (*.e00)*** in the **Files of type** box and navigate to the ***ssurgo.e00*** file. Click **Open**. *This may take a few minutes.*



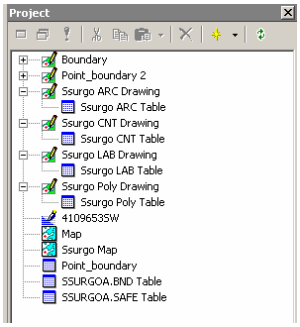
4. Click **OK** in the following popup **Import E00 File** dialog box. *This will import every data layer contained within the SSURGO file.*



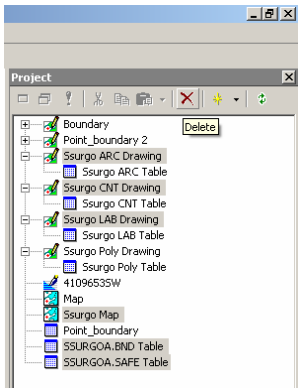
The Importing Data may take a few minutes.



*The **ssurgo.e00** is an archive with multiple data layers. Since no selection was done when importing the file, it is recommended to remove from the **Project** pane the new components that will not be used.*



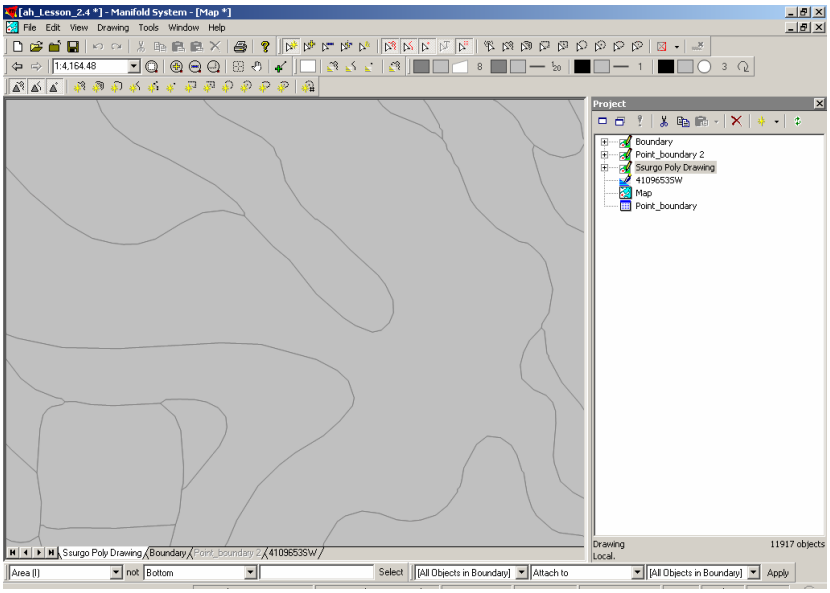
5. Press and hold the **Ctrl** key while selecting the ***Ssurgo ARC Drawing***, ***Ssurgo CNT Drawing***, ***Ssurgo LAB Drawing***, ***Ssurgo Map***, ***SSURGOA.BND Table***, and ***SSURGOA.SAFE Table*** components from the **Project** pane. Press **the Delete** icon in the **Project** pane.



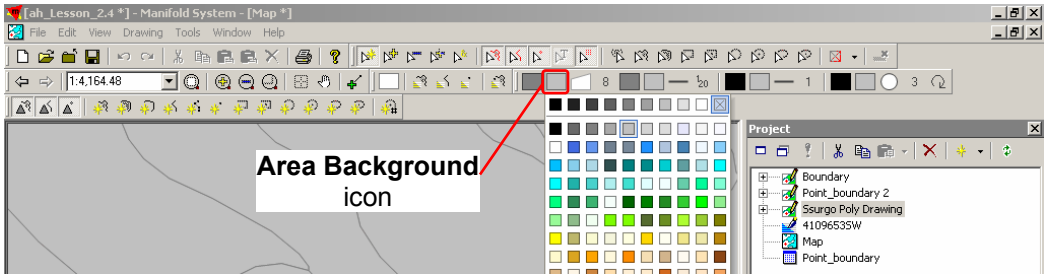
There is no need to assign projection to the drawing imported as e00 archive.

6. Double-click **the *Map*** component in the **Project** pane, **Maximize** and **Zoom To Fit** the new window.

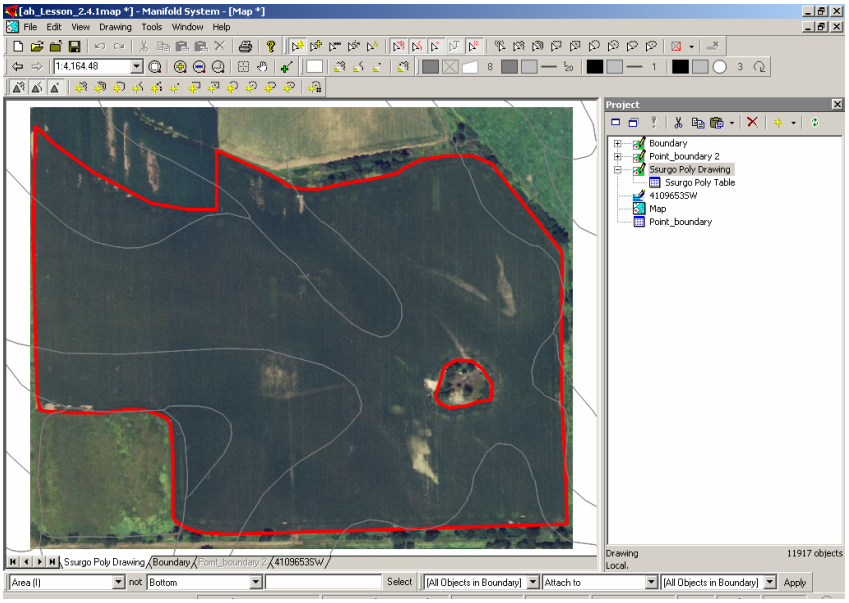
7. Click and Drag the ***Ssurgo Poly Drawing*** component from the Project pane to the map. *A new and activated tab will appear at the bottom of the viewing window. The boundaries of the soil series will appear on the map.*



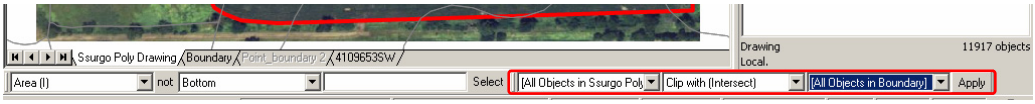
8. To remove **the** gray color, click the **Area Background** icon and select X.



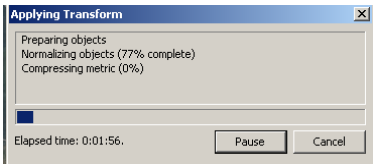
The soils map will show on top of the image with the field boundary.



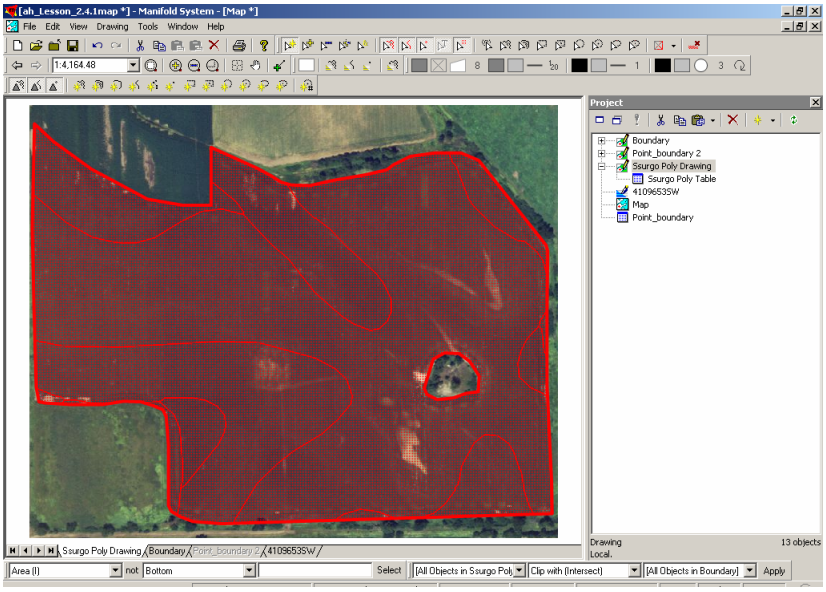
9. To removing **the** soil series data outside the field boundary, select ***[All Objects in Surrgo Poly Drawing]*** in the **Target box**, ***[Clip with (Intersect)]*** in the **Operation box** and ***[All Objects in boundary]*** in the **Parameter box** of the **Transform Toolbar**. Press **Apply**.



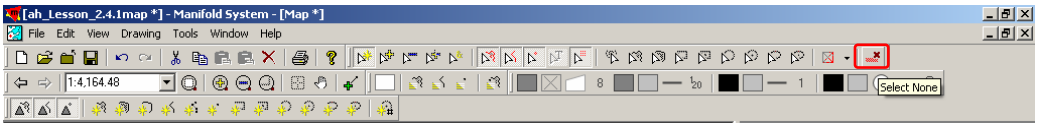
This transformation may take some time.



As a result, every soil series polygon intersecting the field boundary will be divided by the boundary. All polygons outside the field will be removed.

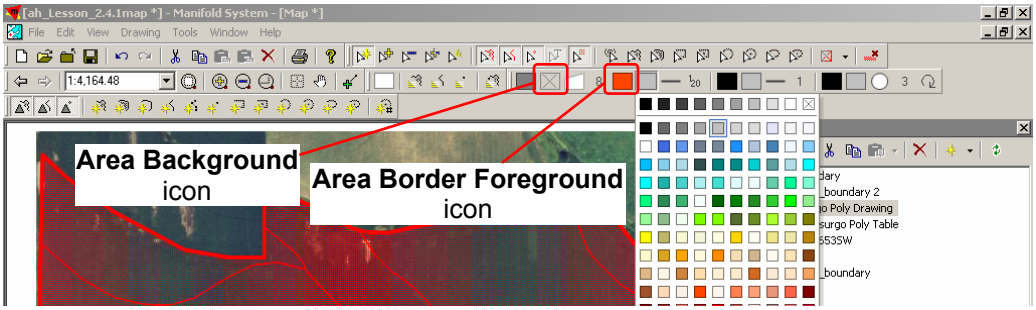


10. Click **the Select None** icon to remove the default polygon selection.

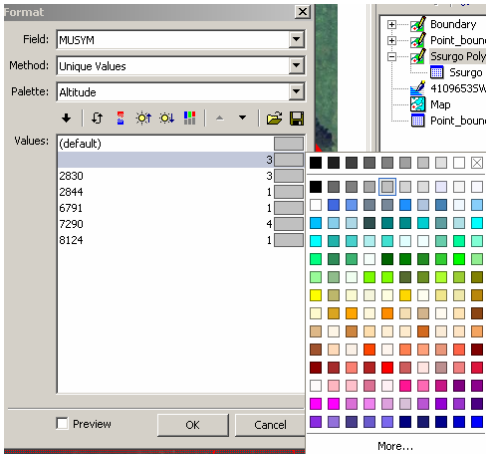


11. To change the color of the soil type lines based on the soil series, **c**lick the **Area Border Foreground** icon and change the color of the borders to red.

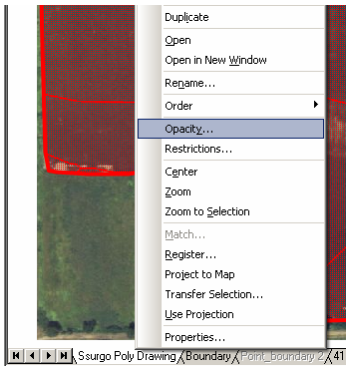
12. To change the color of each polygon according to soil series, click **the Area Background** icon and select **Theme**.



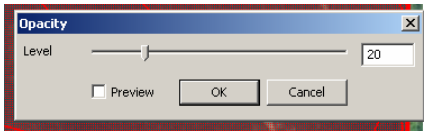
13. In the popup **Format** dialog box select ***MUSYM*** for the **Field** box. Then, for each soil series, double click the color box and assign a different color. Press **OK.**



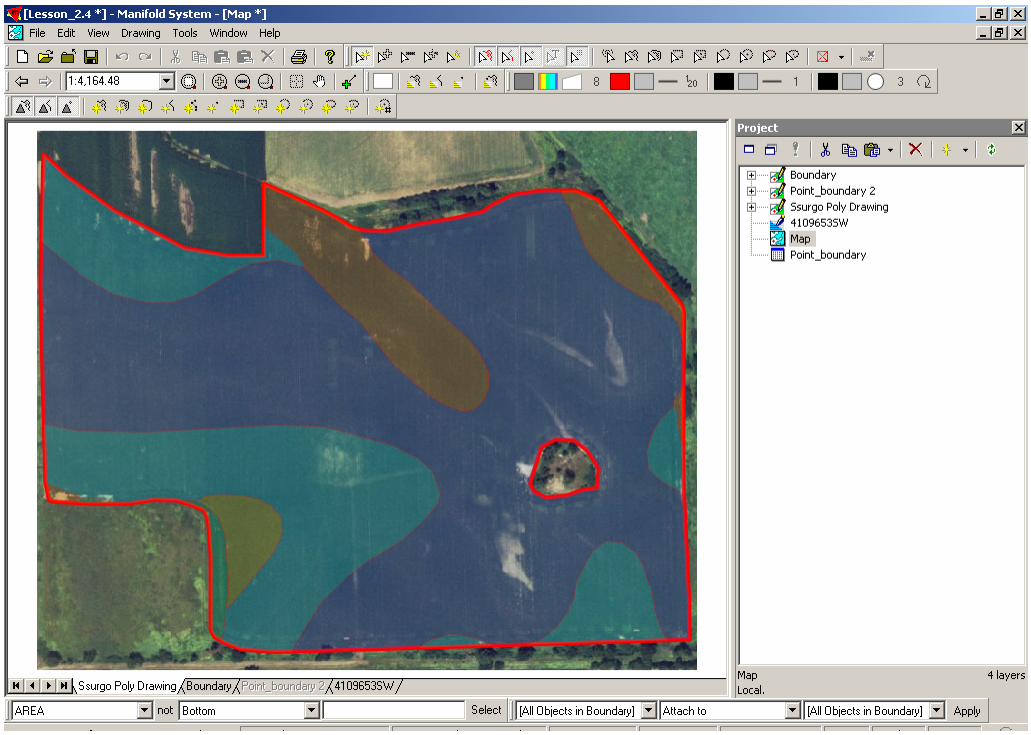
14. To reveal the image under each soil series colored polygon, right click the ***Surrgo Poly Drawing*** tab at the bottom of the viewing window and click **Opacity.**



15. In the popup **Opacity** dialog box, set the level of opacity to 20. Click **OK**.



Now, the image is visible again overlaid with the soil series polygons.



16. **File-Save As *Project_2-4.map***.