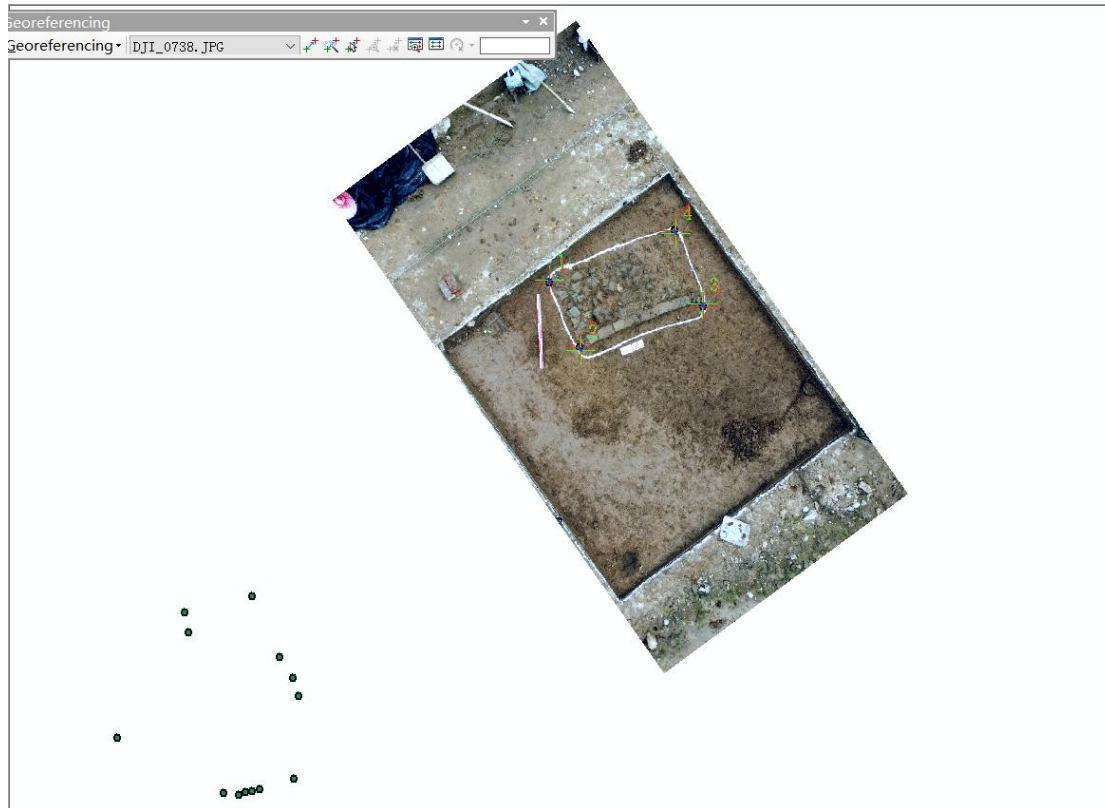
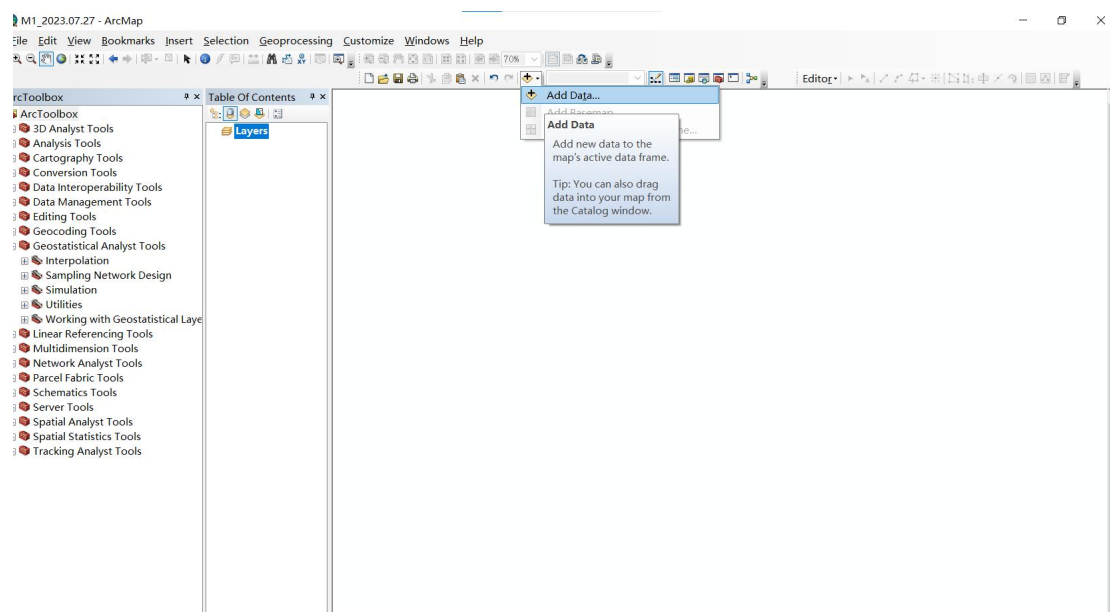


## How to rectify your map in GIS

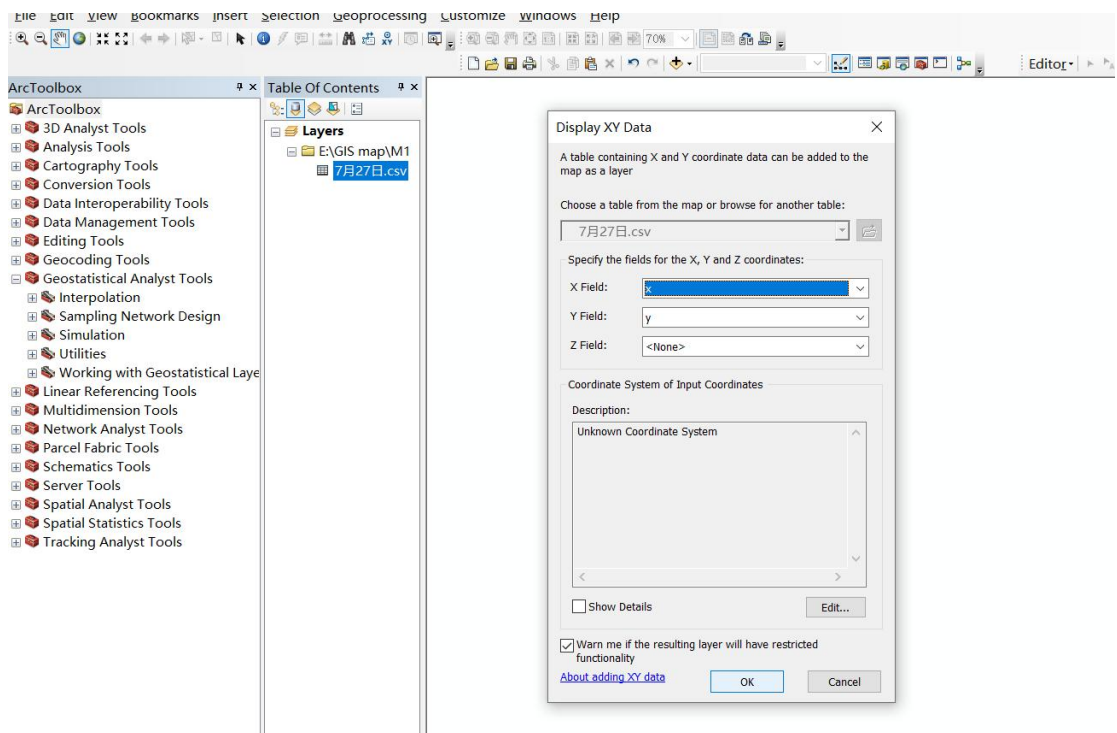
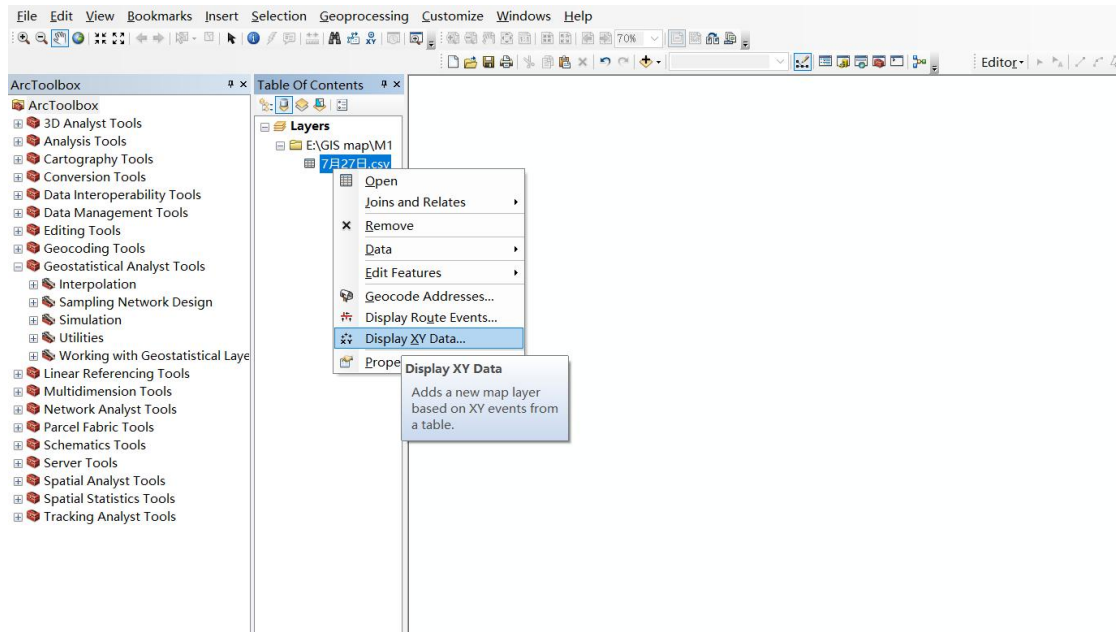
### Task: Rectify a JPEG photo with coordinates in GIS



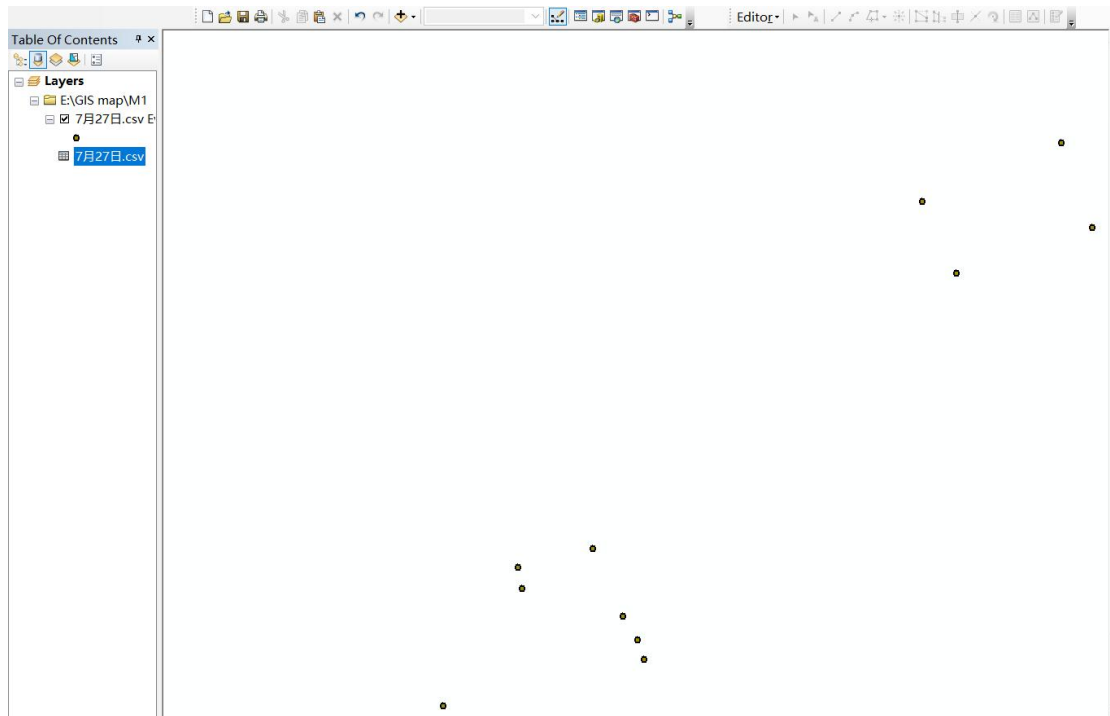
### Step 1: Input coordinates from the csv format document by clicking “Adding Data”



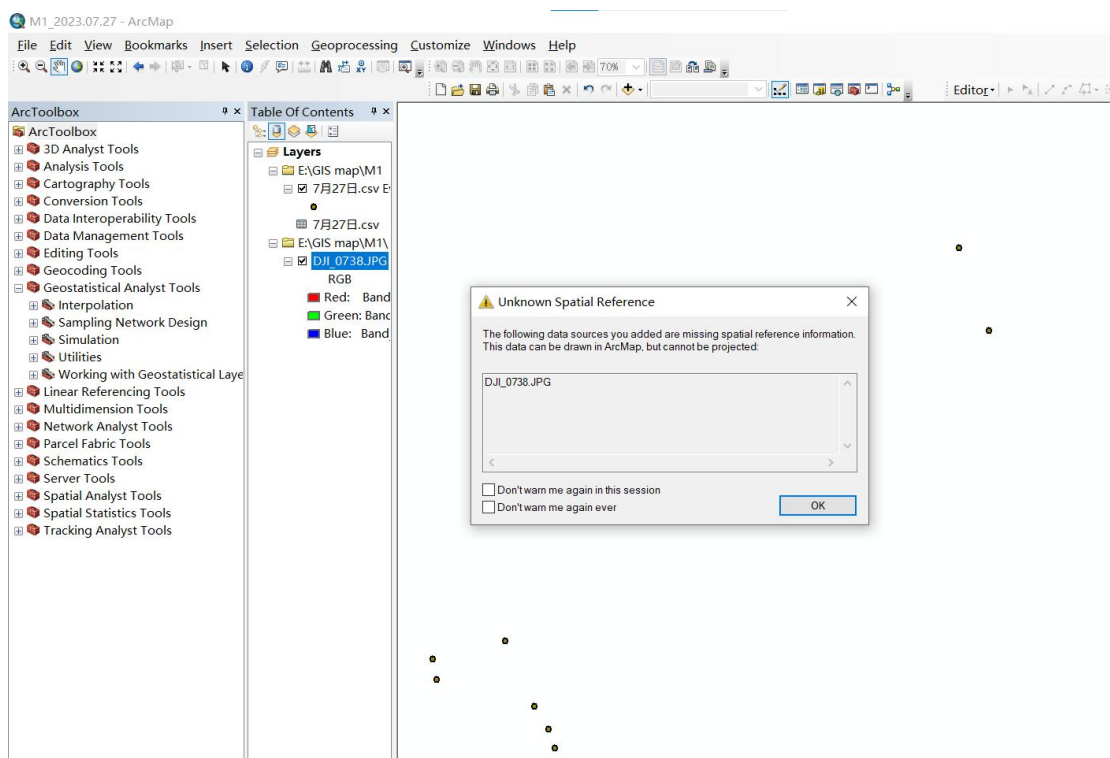
### Step 2: Display the coordinates (Right click the layer - select “Display XY Data” -”OK”)



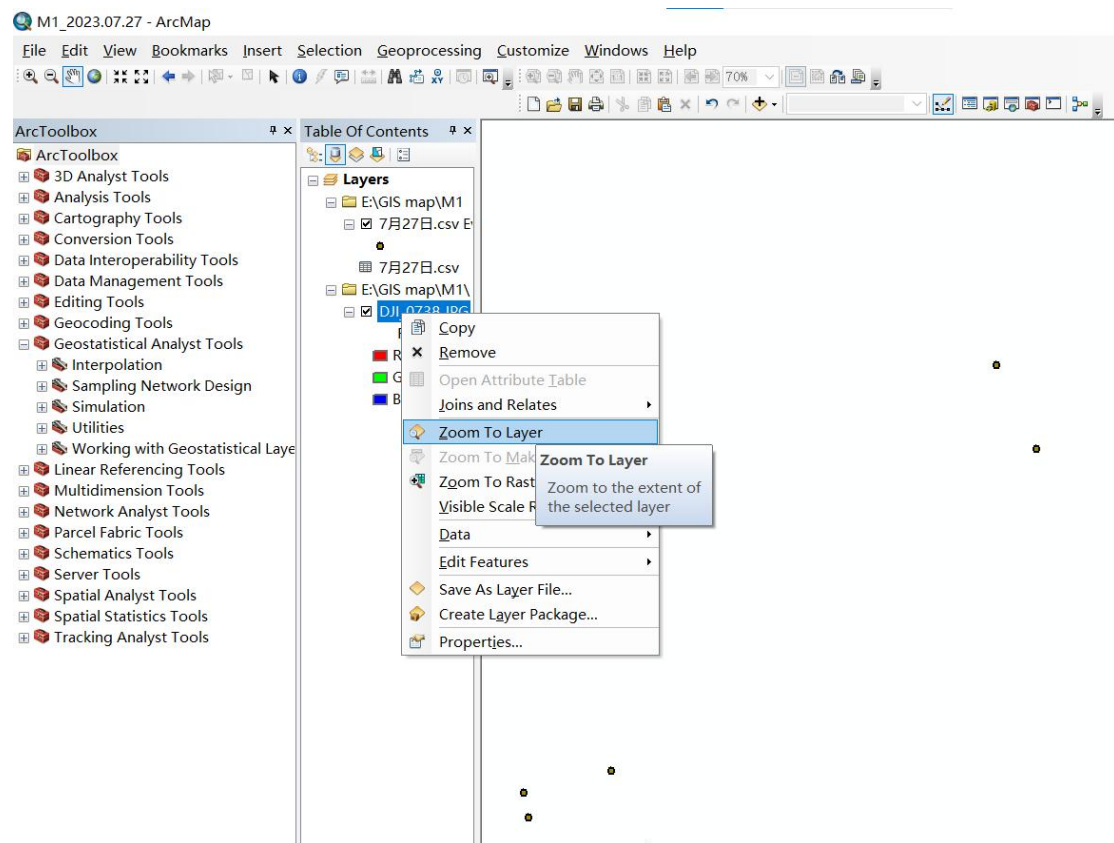
You will get a notice : “Table Does Not Have Object-ID Field”. Ignore it. Just click “Yes”. The coordinates will be shown on the window



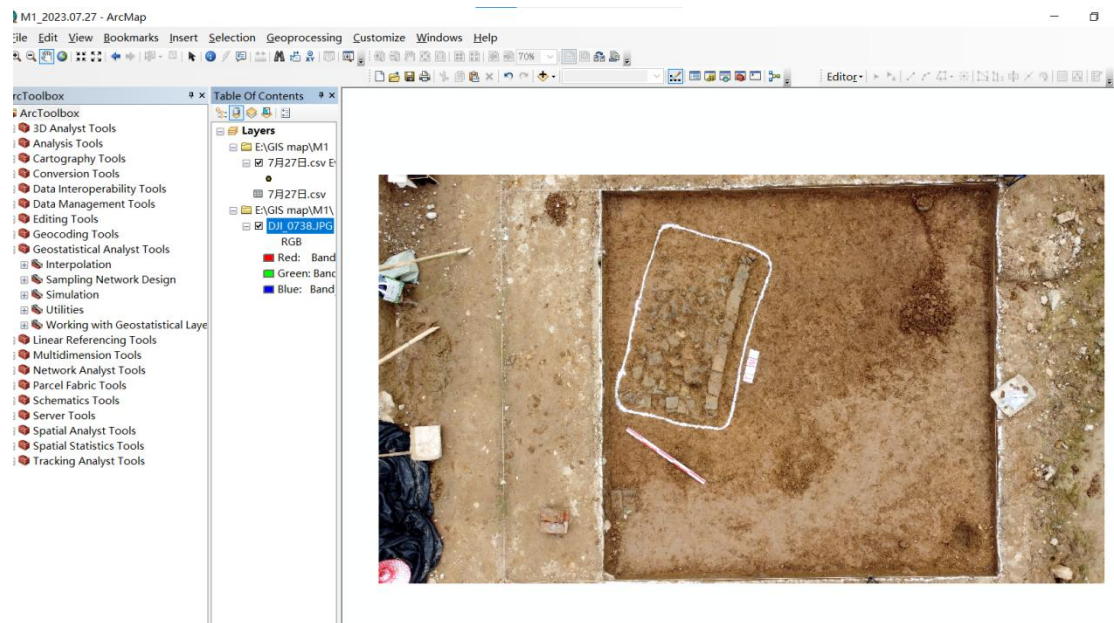
**Step 2: open your JPEG photo in GIS by dragging the photo into GIS's window directly**



**You may not see the photo because it does not have a coordination and is therefore temporarily placed in the origin. You can see it by right clicking the layer and then clicking "Zoom To Layer".**



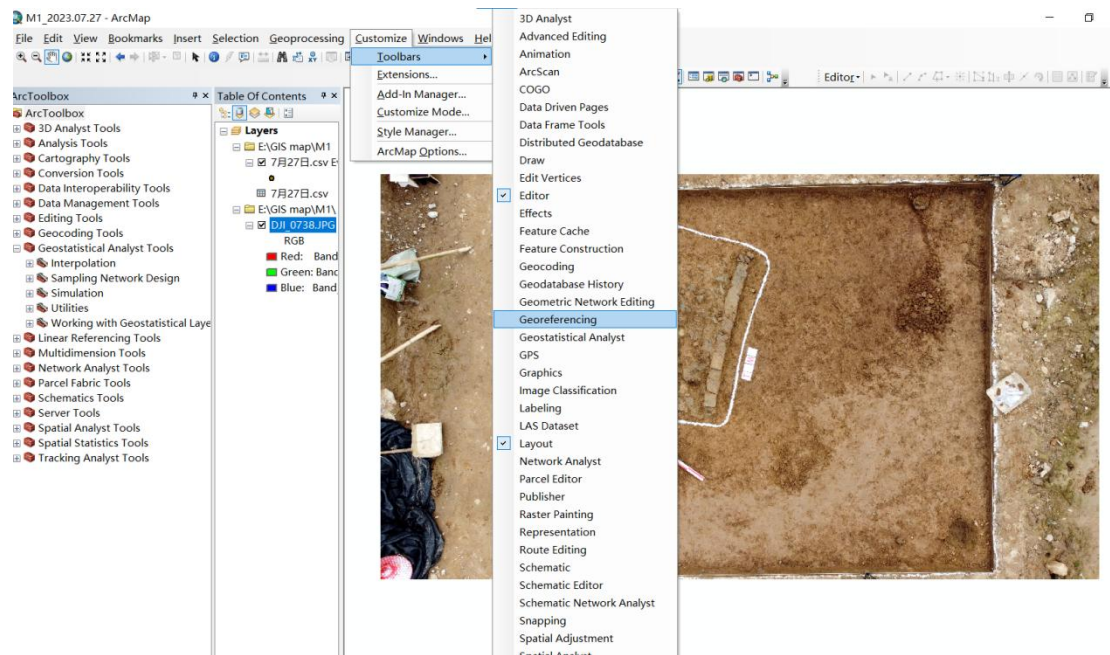
## Viola



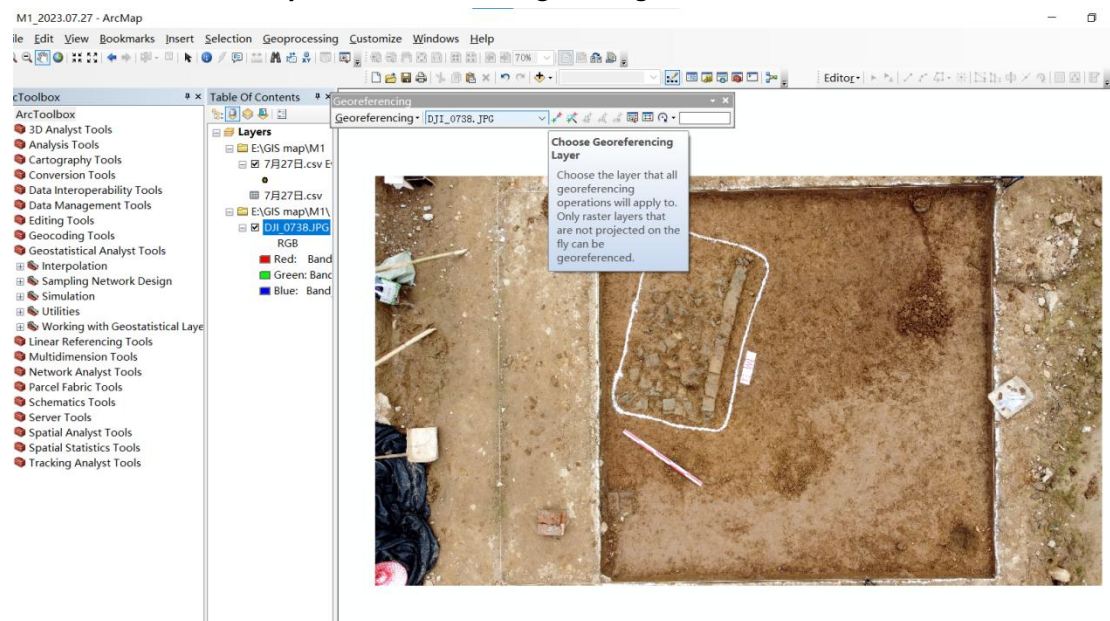
**Step 3: Open Georeferencing tool to rectify the photo**

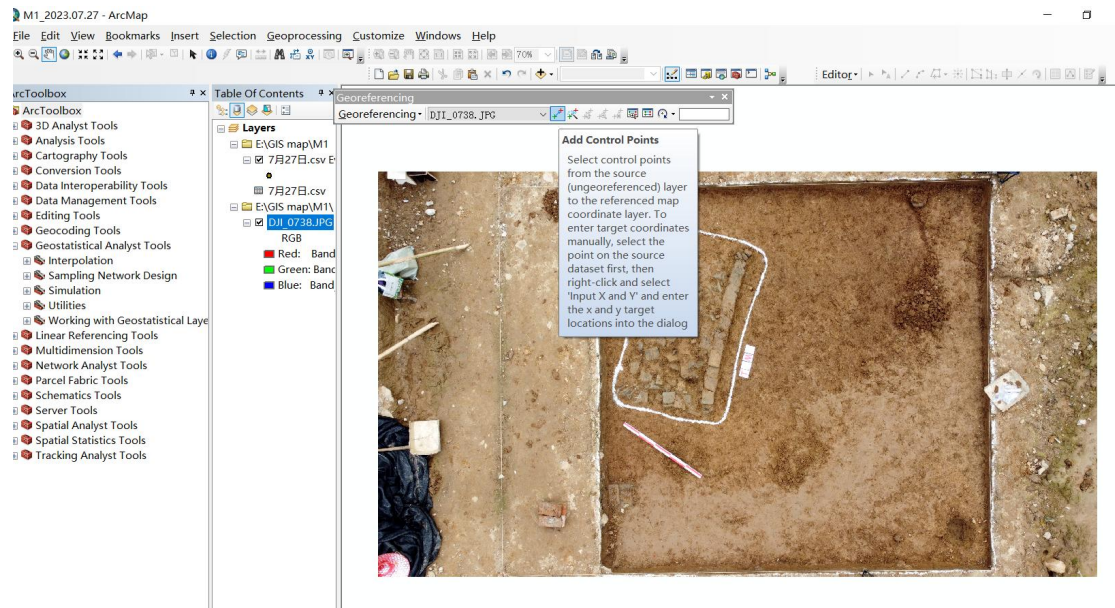
**(1) Adding Control Points**



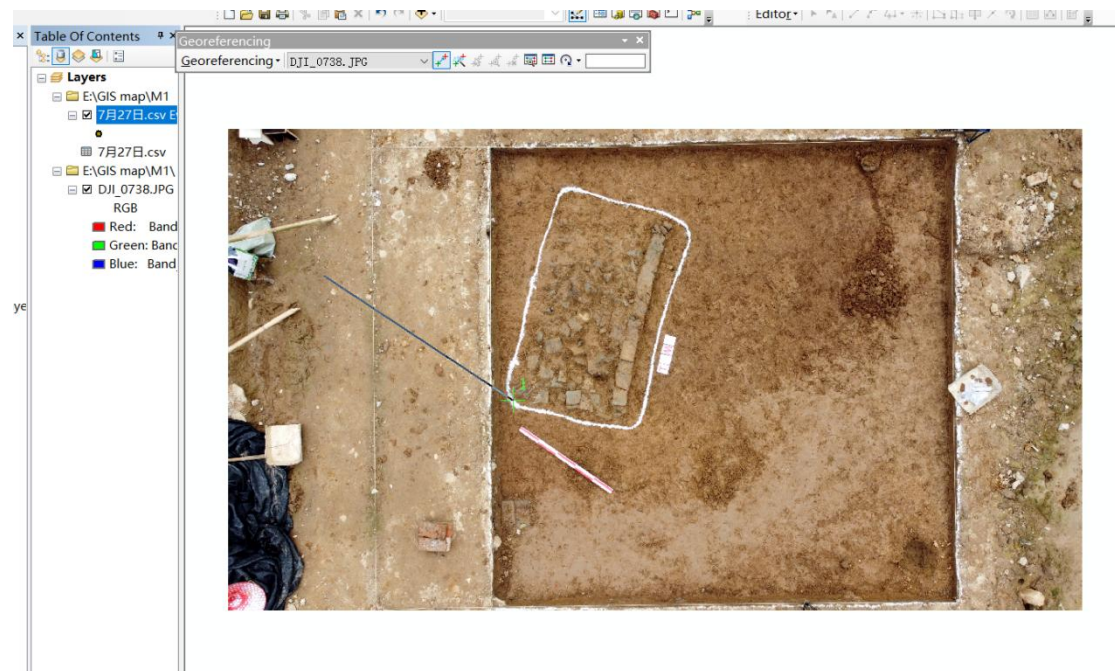


**You need to choose a layer first before clicking “Adding Control Points”**

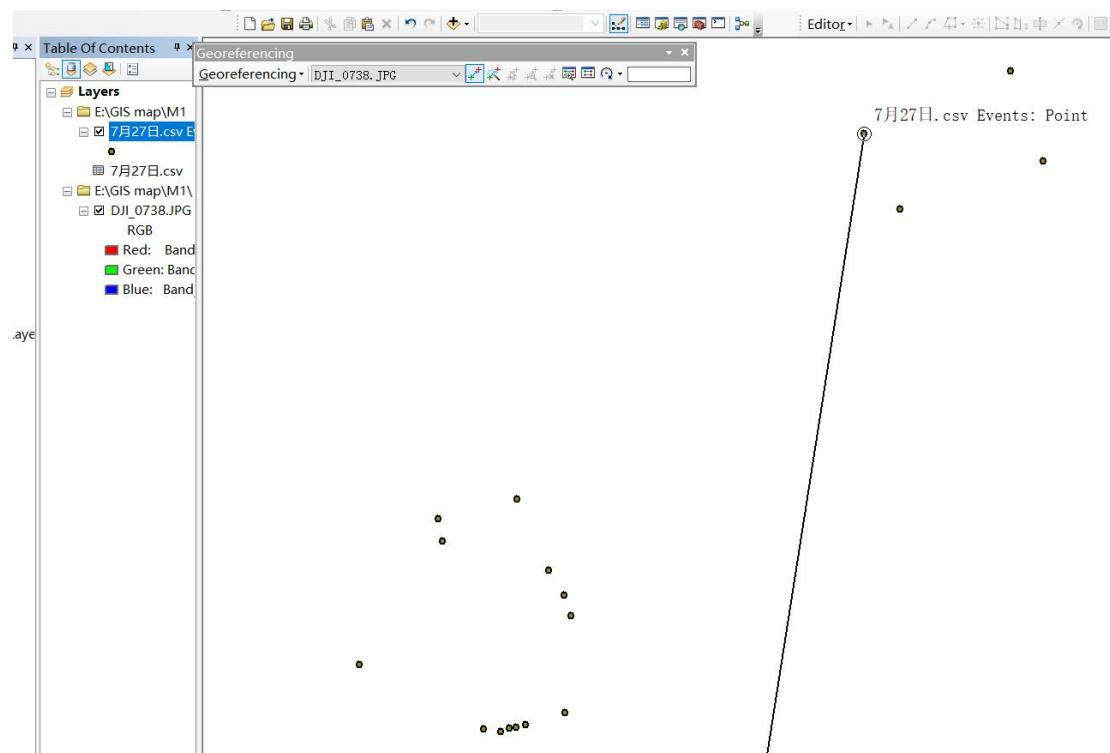
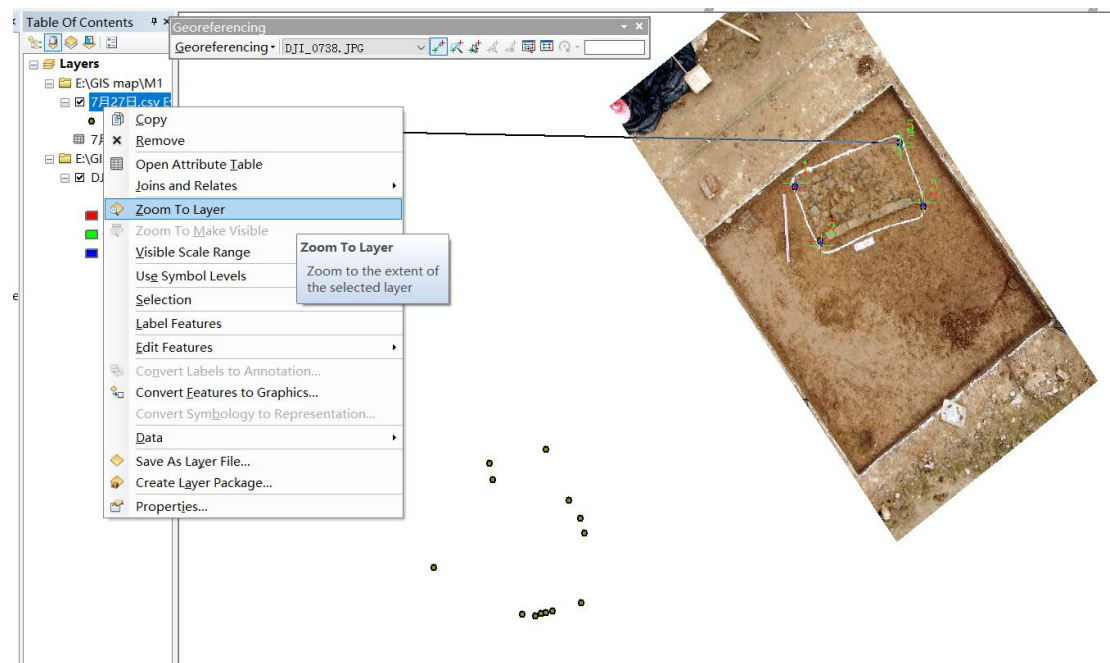




**Control points are points that connect the coordinates layer and the photo layer. You need to link one point in coordinate layer and another in the photo layer. At least 3-4 pairs are needed to rectify a photo.**

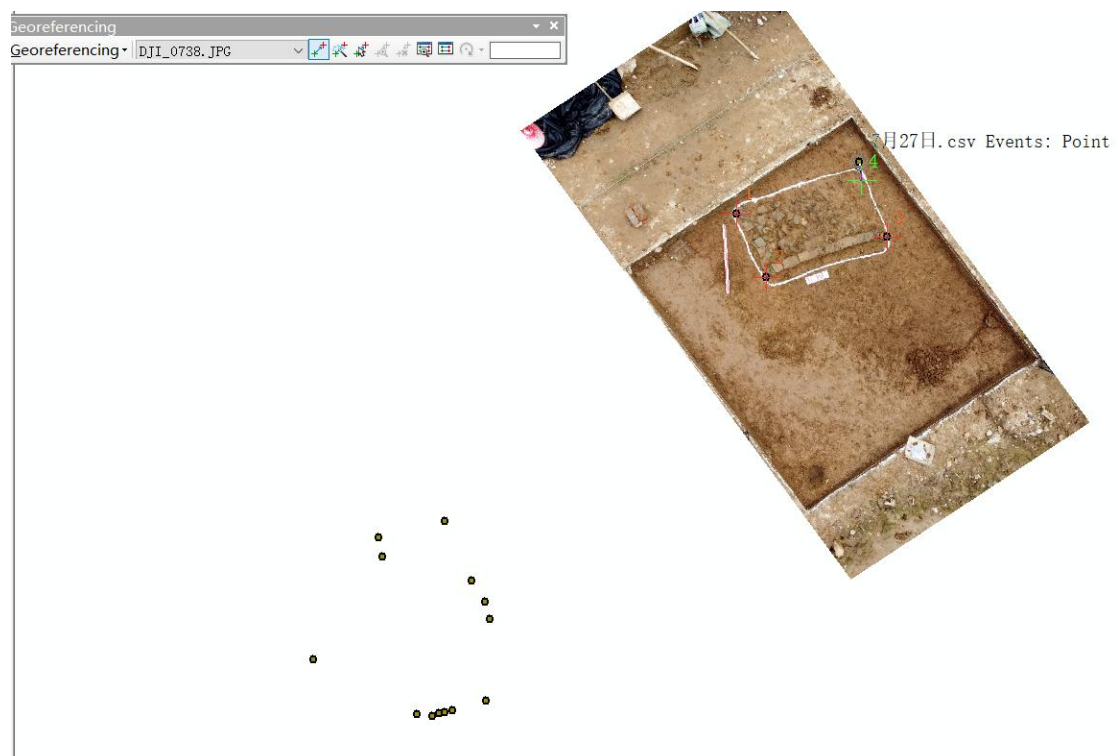
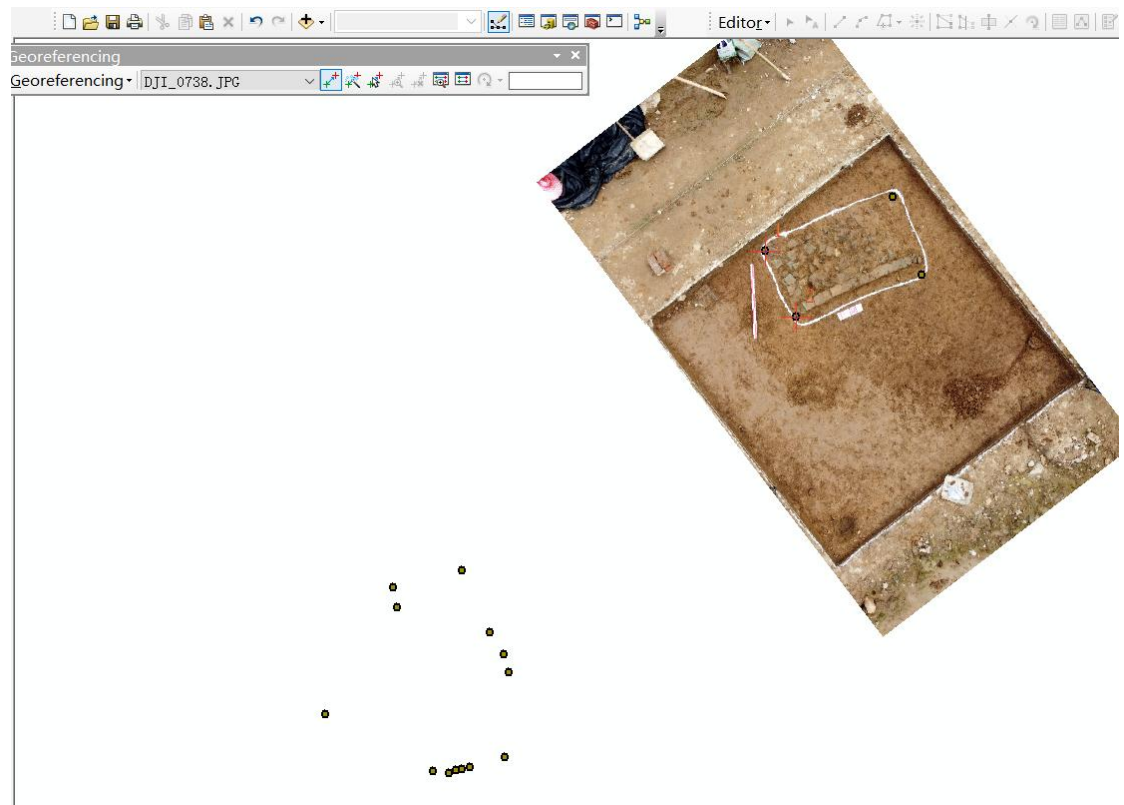


**Still, you can right click “Zoom To Layer” to switch to the layer you want to put another control point on.**



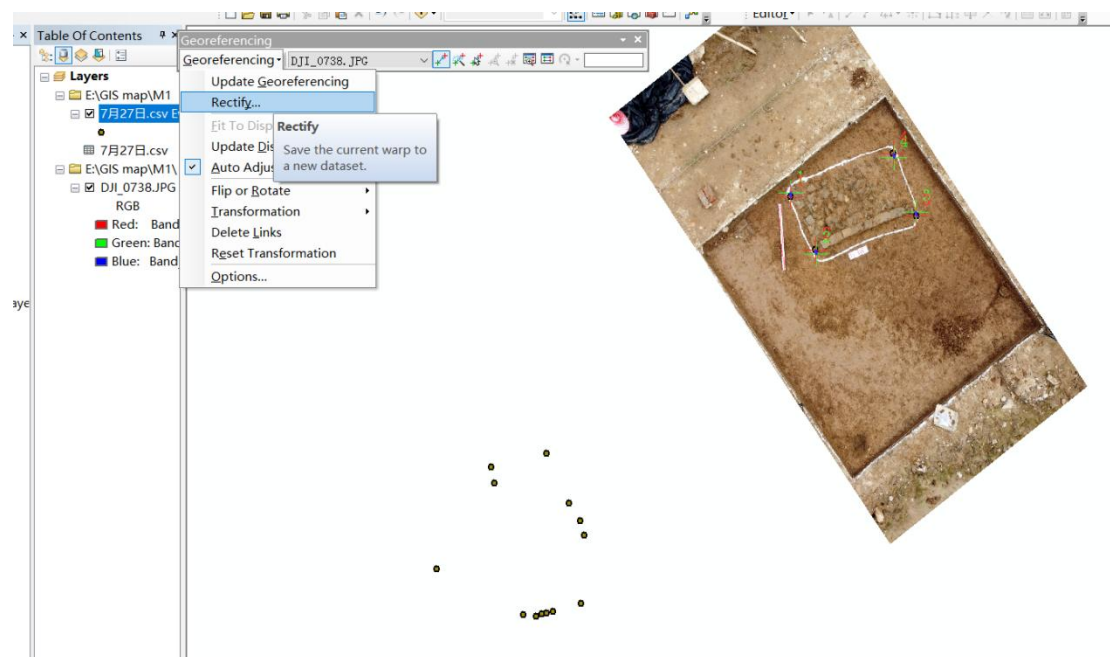
Once two pair of points are linked, GIS will help you to put two layer together for your convenience. (Green points below are another two points from coordinates layer while red dots are two pairs I link between the JPEG photo and coordinates)





(2) Rectify the photo





Save the rectified photo

