

## Raster Data Management

**Step 1:** Garad Canyon National Park, Arizona.

**Step 2:** Project file: GaradCanyon\_NP

**Step 3:** The selected coordinate system is NAD 1983 UTM Zone 12N. Arizona has three state plane projections, but the national park fits into UTM zone 12N.

**Step 4:** The three (3) vector data sets: Structures (point), Road (line), Water Stream (polygon)

**Step 5:** The three (3) raster data sets: Dem, Topography, and Soil.

**Step 6:** Map image (an image that is not GRID data) of the park.

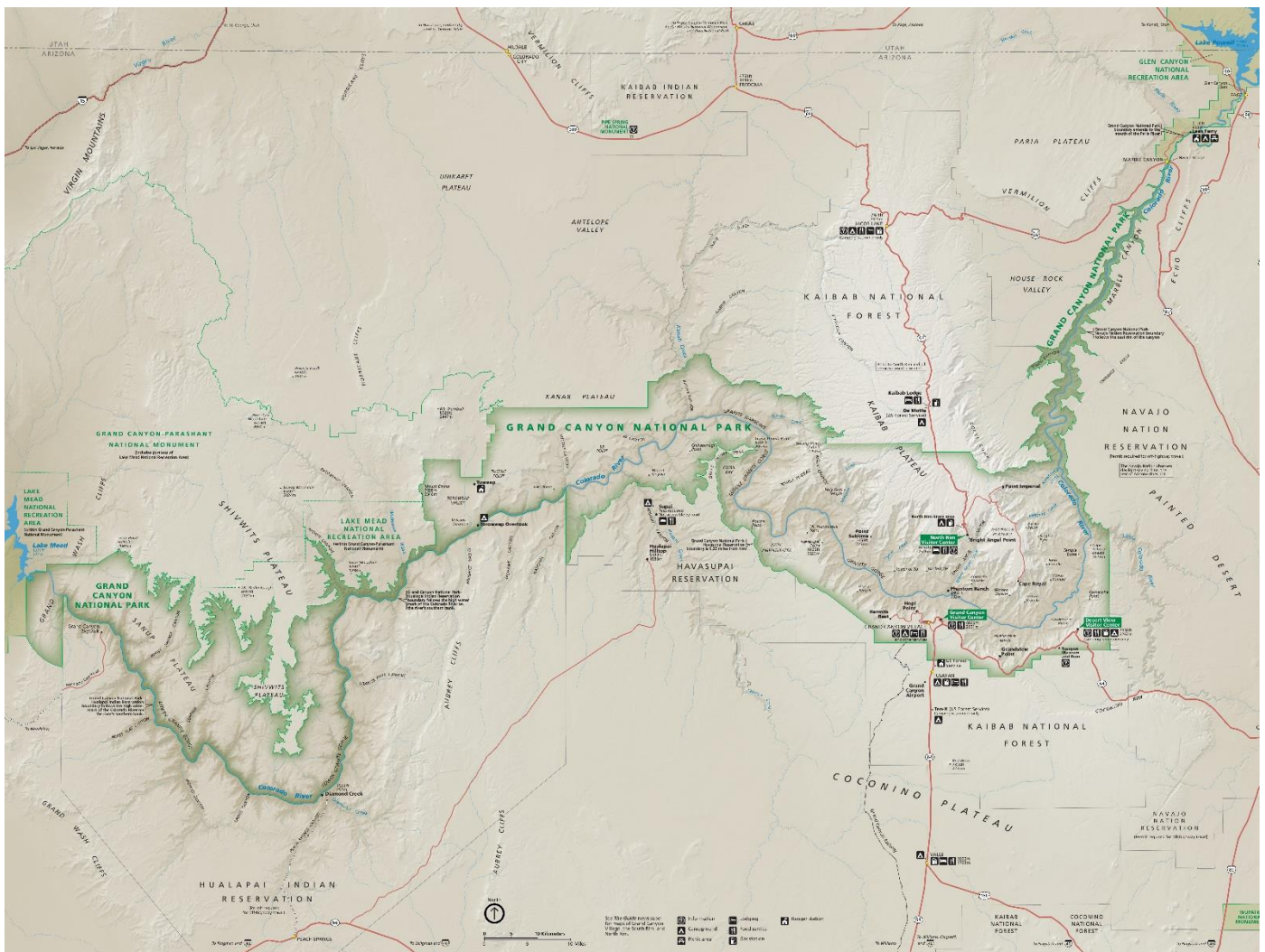
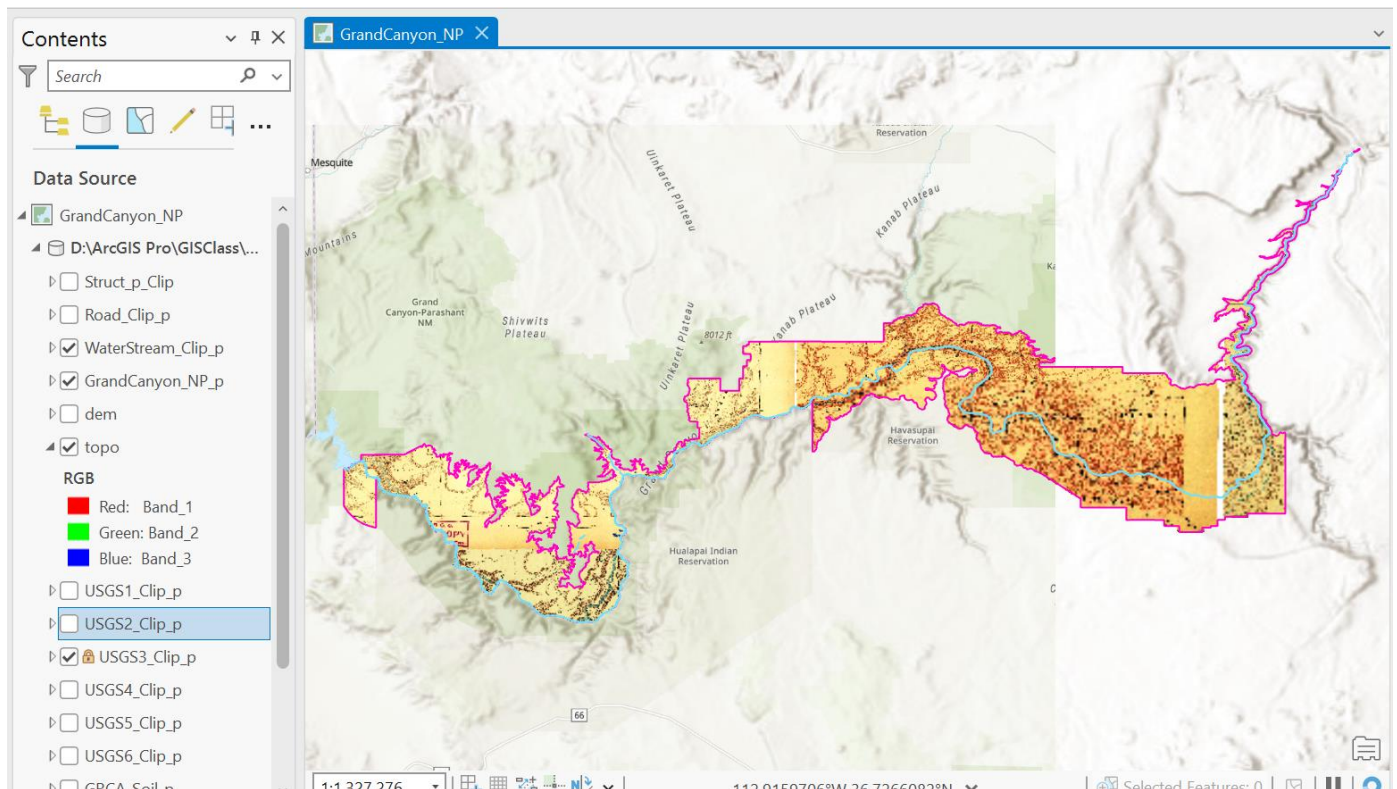


Figure 1: Downloaded Map for georeferencing

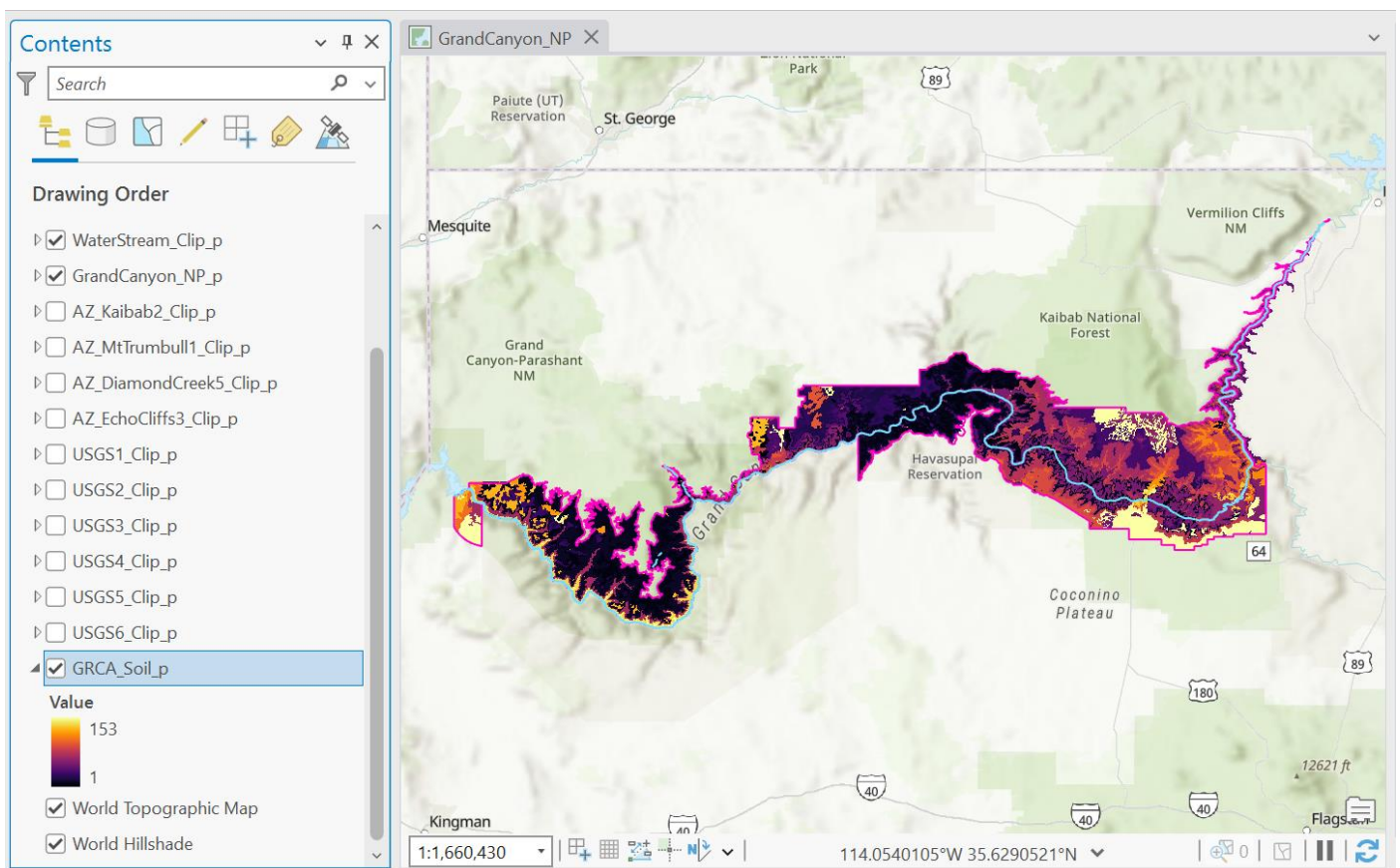
### Deliverables:

- Screen captures

- **Map display** for each raster layer NOT included in the finished map. Be sure to include the contents pane with the raster symbology visible.



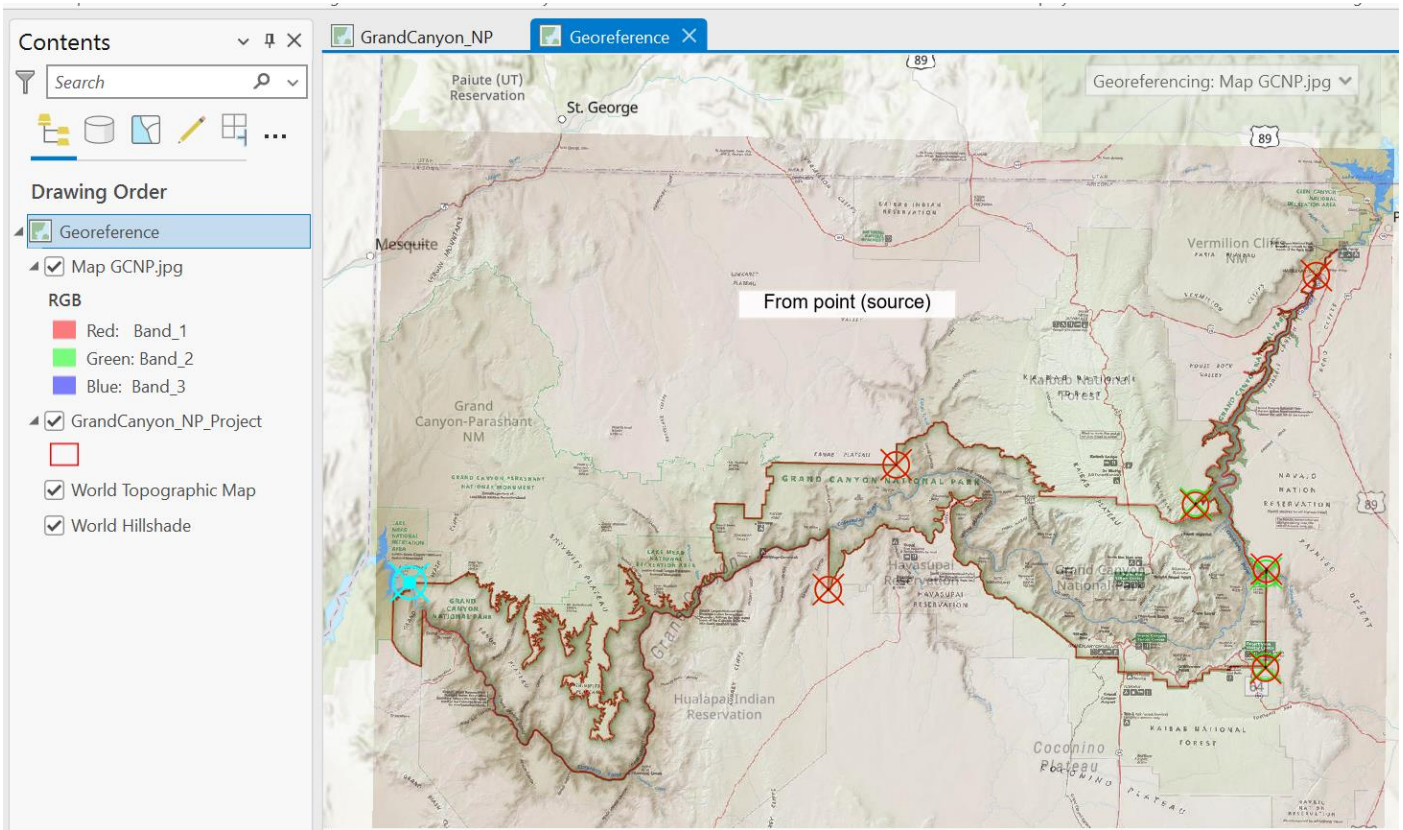
**Figure 2: Mosaic Raster Map (topography)**



**Figure 3: Raster Map (Soil)**

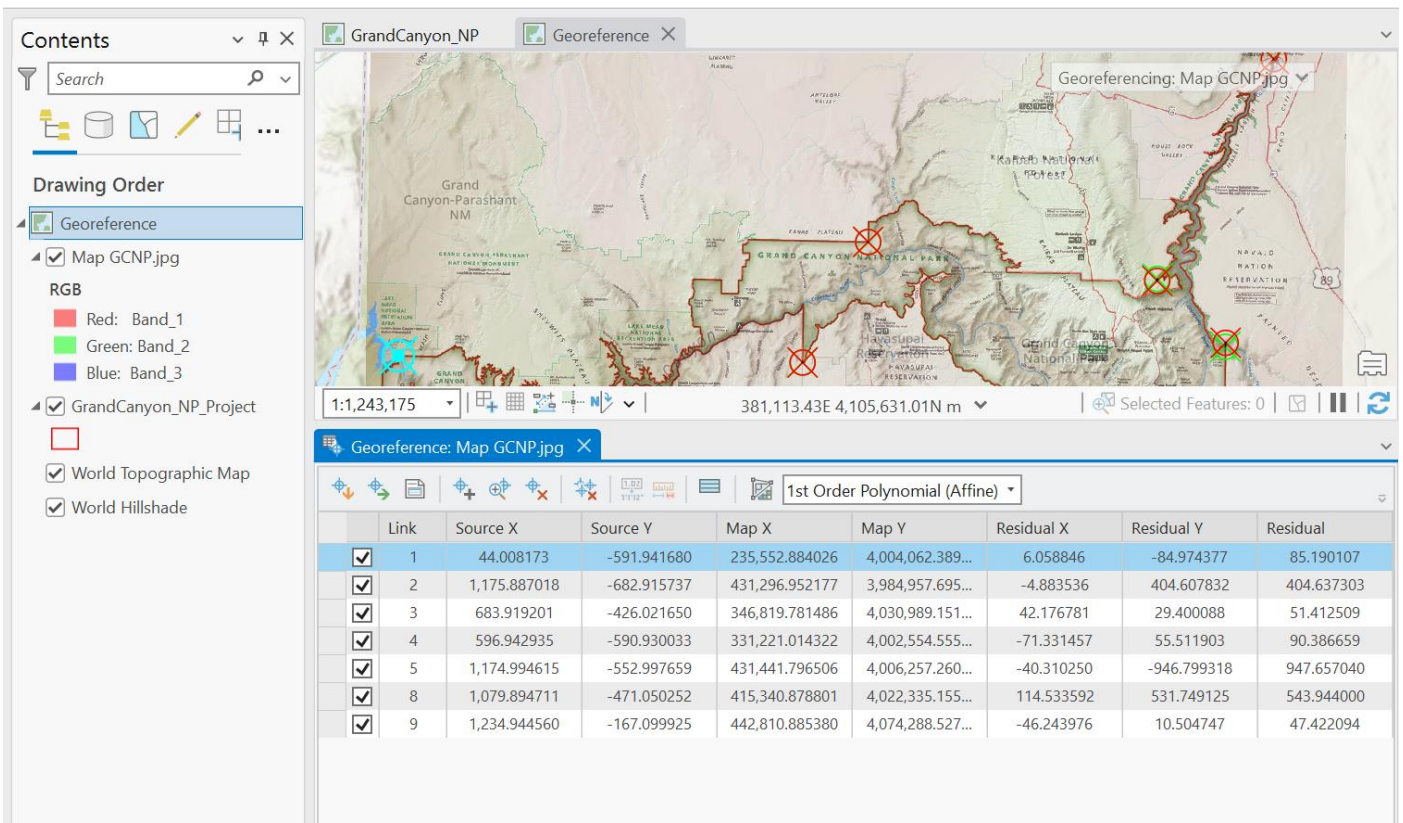


- **Map display** for each georeferenced layer. Just show the georeferenced image and the park boundary. Include a screen capture of the:



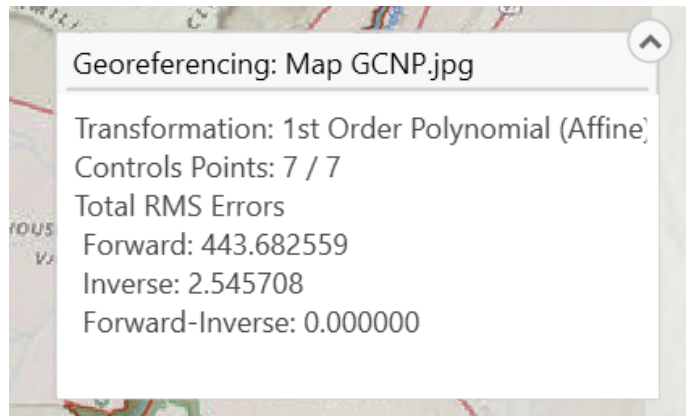
**Figure 4: Georeferenced map with park boundary**

- **Control Points table**

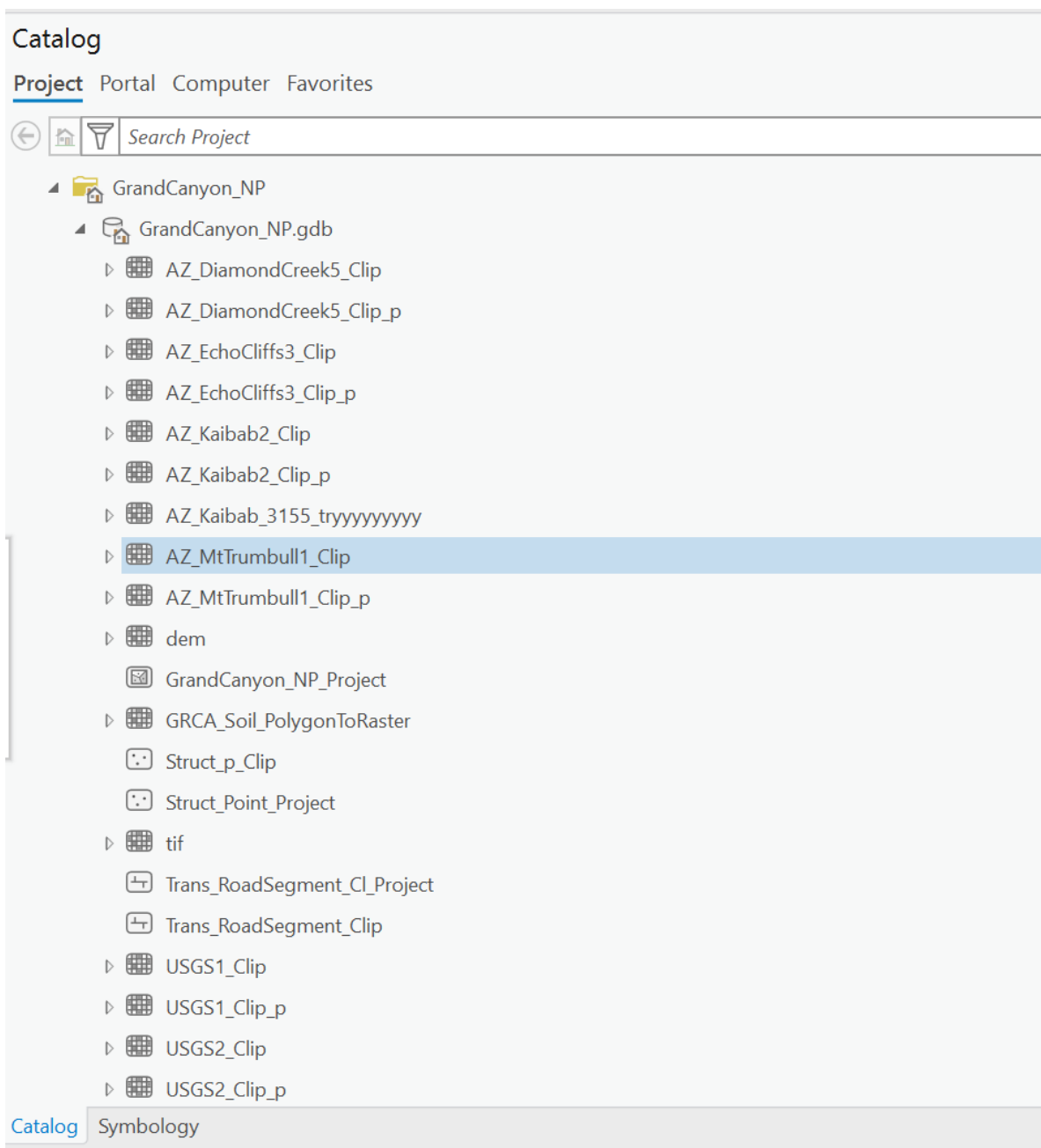


**Figure 5: Control Point Table**

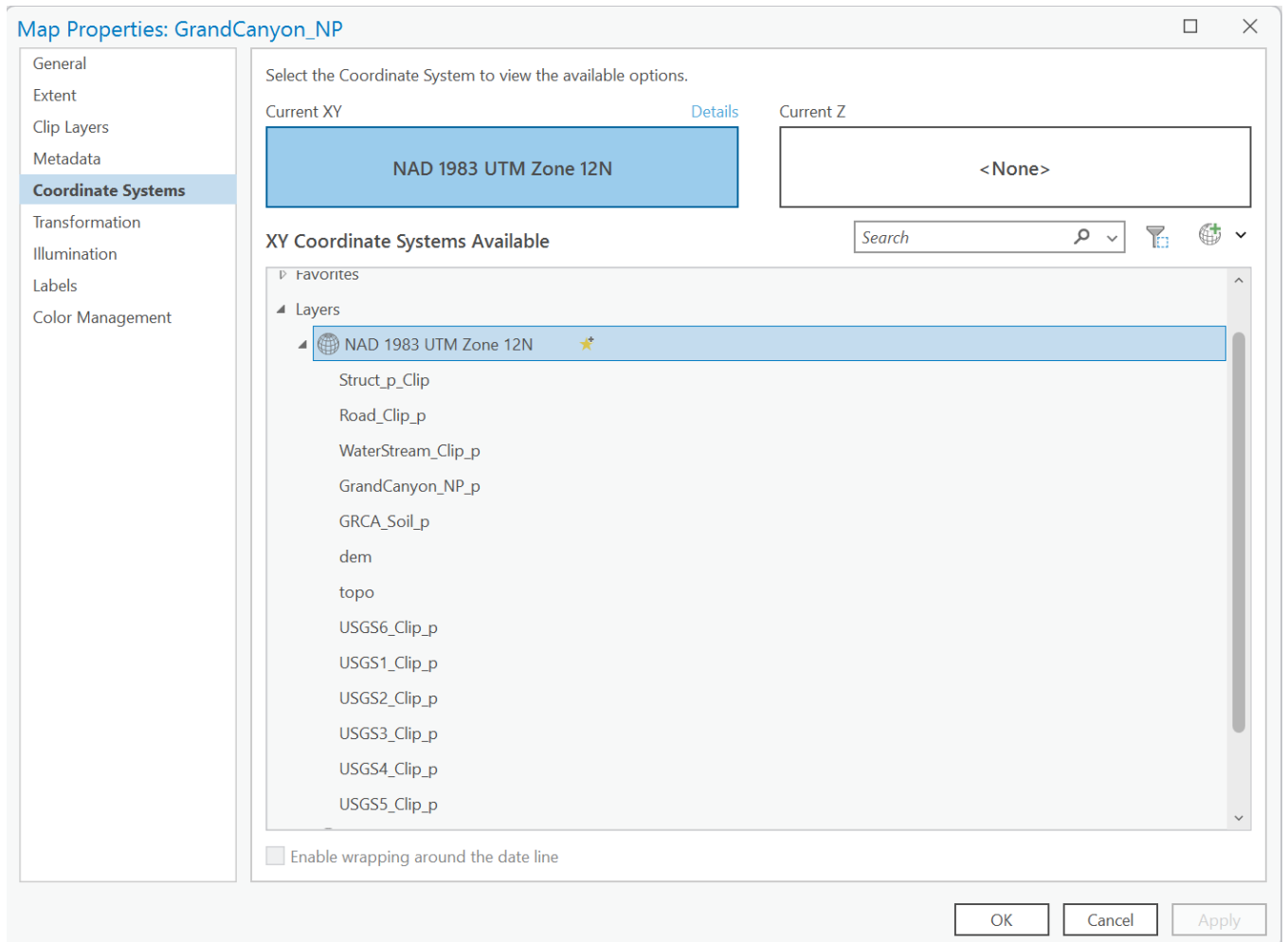
- Transformation parameters display.



- **Catalog pane** showing all datasets in the project database.



- **Layers folder** in the map properties (as in Fig. 5.20) showing coordinate systems for all feature classes (should all be the same)



- **Metadata** showing the updated citations, description, and thumbnail.

The data is downloaded from an online source, restricting me from editing the metadata. Here is the warning:

