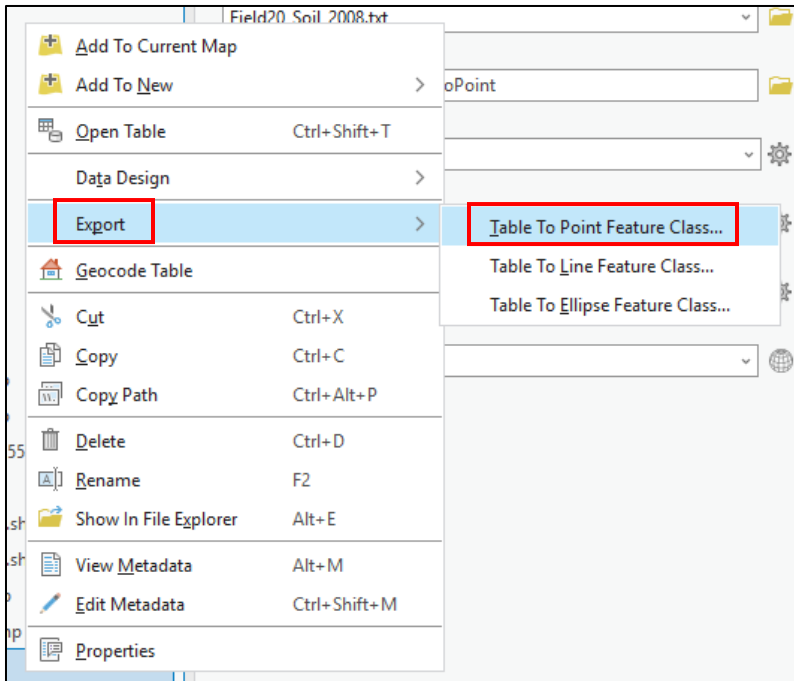


Lesson 1.3: Creating a soil sampling map

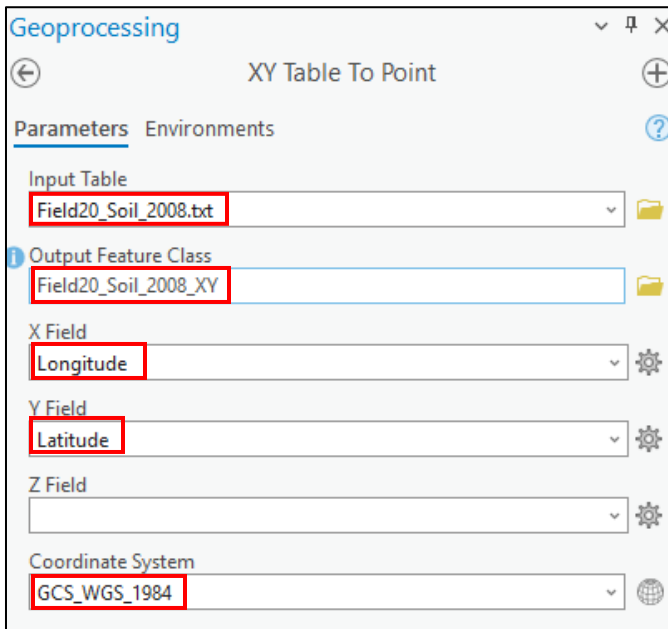
Data Source: *dataset1.zip*

Part 1: Creating a point shapefile (.shp) from a text file (.txt).

1. Make sure that **dataset1** is connected to the **Catalog** tab, if not add it.
2. In the **Catalog** tab, right click on **Field20_Soil_2008.txt** > **Export** > **Table to point Feature Class...**



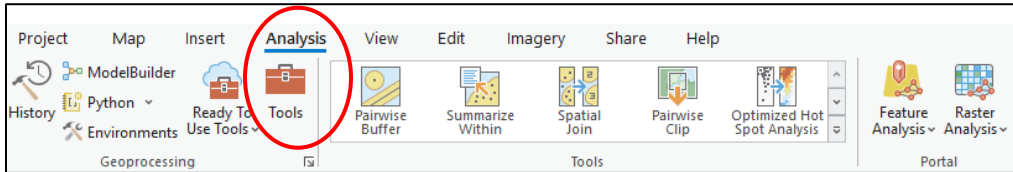
3. In the **XY Table To Point** tab select the following inputs and then click **Run**:



4. The layer will be added to the map and will be saved when you save the project.

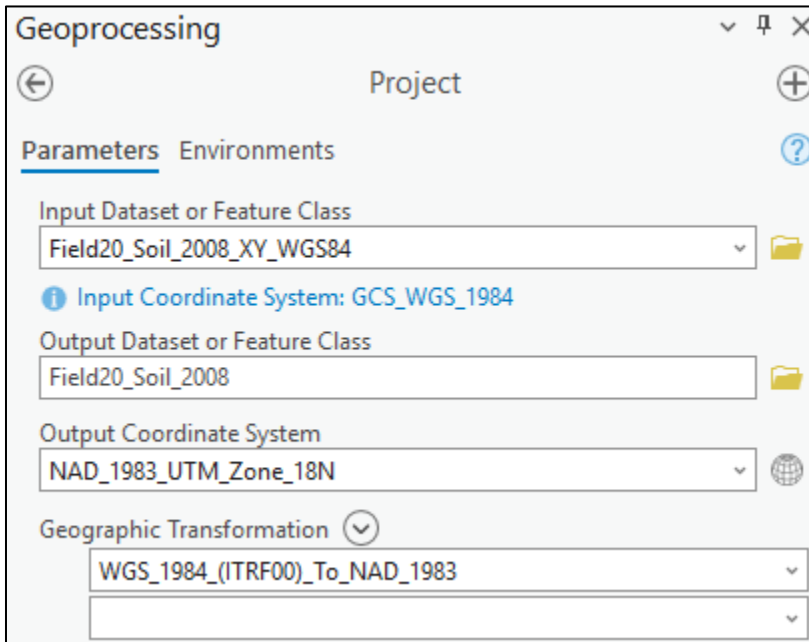
Part 2: Converting coordinates from a geographic coordinate system to a projected coordinate system.

1. Double click on the file you just made and add **WGS84** to the end of the name. WGS 1984 the geographic coordinate system that the file is currently in. You selected this coordinate system when creating the file.
2. Go to **Analysis > Tools**. This will open the **Geoprocessing** tab.



3. Search for **Project** and double click on it.
4. In the **Project** window select the following inputs and click **Run** when complete:
Input dataset: **Field20_Soil_2008_XY_WGS84**
Output Dataset: Field20_Soil_2008_projected
Output Coordinate System: **NAD_1983_UTM_Zone_18N**

To find the coordinate system, click the globe symbol, then select **projected Coordinate System > UTM > North America > NAD 1983 > NAD 1983 UTM Zone 18N**.



5. Drag **Field20_Boundary.shp** to the **Contents** panel. You should now be able to see the soil sampling points from **Field20_Soil_2008_projected** overlaid on **Field20_Boundary**.
6. Save and close the project.

