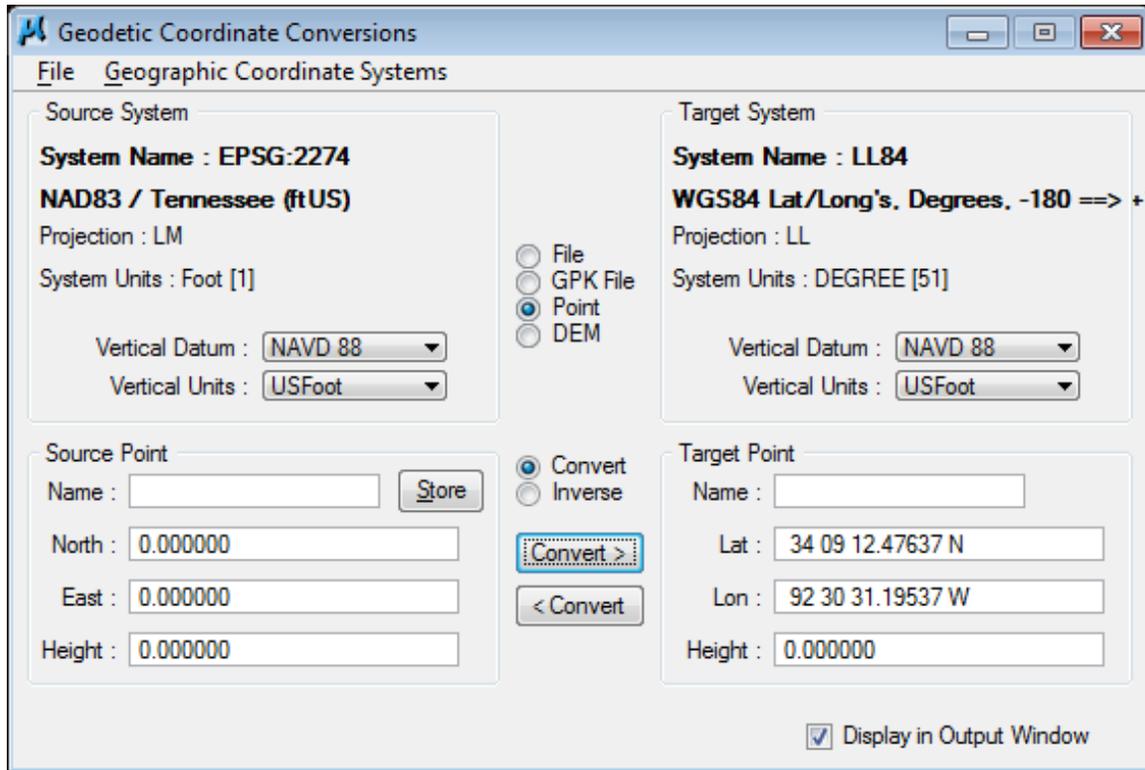


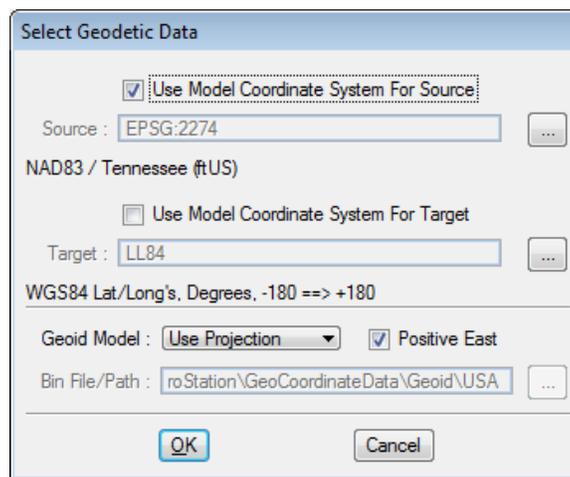
Converting State Plane Coordinates to Latitude and Longitude

1. In MicroStation, go to **Applications> Geopak> Survey> Survey** and on the Survey menu bar go to **Geometry> Conversions >Geodetic**
This will bring up the **Geodetic Coordinate Conversions** dialog box.



The Source System should be set automatically from the DGN file coordinate system settings and the Target System may already be set as well. If your systems are not set as shown above, go to the drop down option **Geographic Coordinate Systems> Select**.

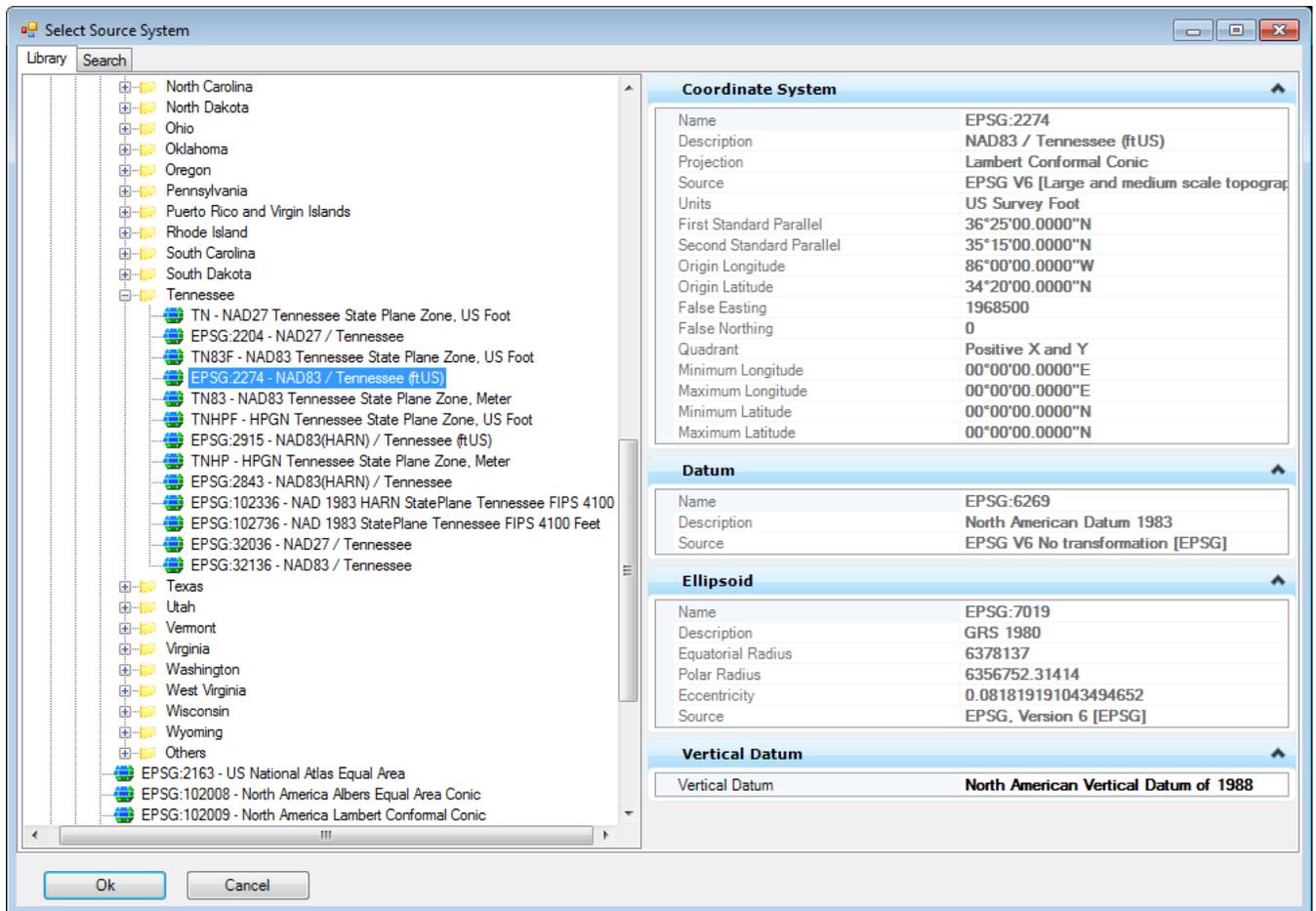
The **Select Geodetic Data** dialog opens.



Select the “...” buttons to the right to set the Source & Target coordinate systems.

2. Source System:

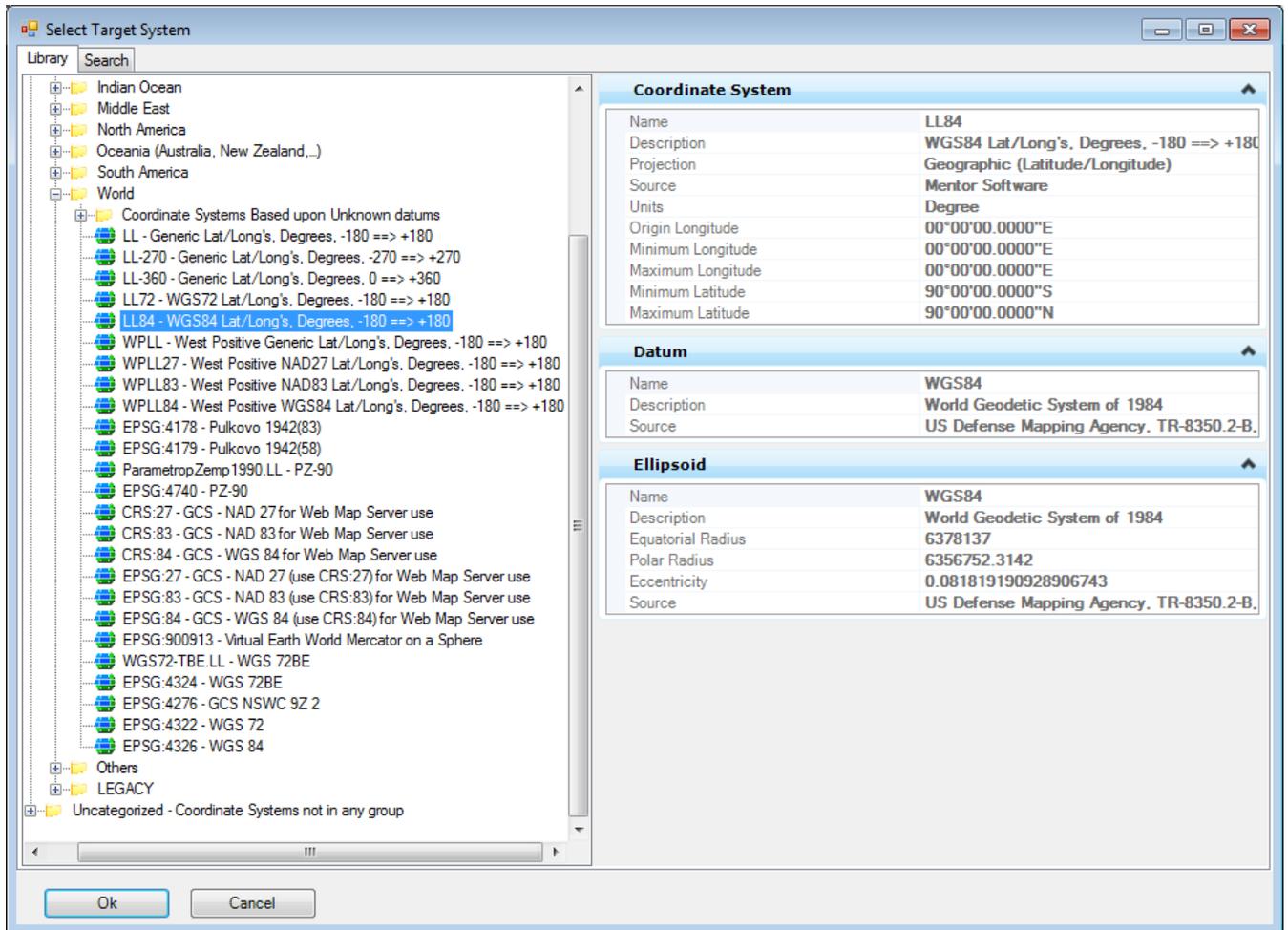
If not set automatically, set the Source System to **EPSG 2274 – NAD83 / Tennessee (ftUS)**



Double click the desired coordinate system or select and click **OK**.

3. Target System:

If not set already, set the Target System to
LL84 – WGS84 Lat/Long's Degrees. -180 ==> +180



Double click the desired coordinate system or select and click **OK**.

4. In the **Geodetic Coordinate Conversions** dialog, click on the **Point** option.
5. Set **Vertical Datum** under Source and Target to **NAVD 88**.
6. Set the **Vertical Units** to **USFoot**.
7. Enter state plane north and east coordinates you wish to convert under **Source Point**.
8. Set translation option in center to **Convert**.
9. Once all settings are made click on the top **Convert** button to generate latitude and longitude for the state plane coordinate values.

Geodetic Coordinate Conversions

File Geographic Coordinate Systems

Source System
System Name : EPSG:2274
NAD83 / Tennessee (ftUS)
Projection : LM
System Units : Foot [1]
Vertical Datum : NAVD 88
Vertical Units : USFoot

Target System
System Name : LL84
WGS84 Lat/Long's, Degrees, -180 ==> +
Projection : LL
System Units : DEGREE [51]
Vertical Datum : NAVD 88
Vertical Units : USFoot

File
 GPK File
 Point
 DEM

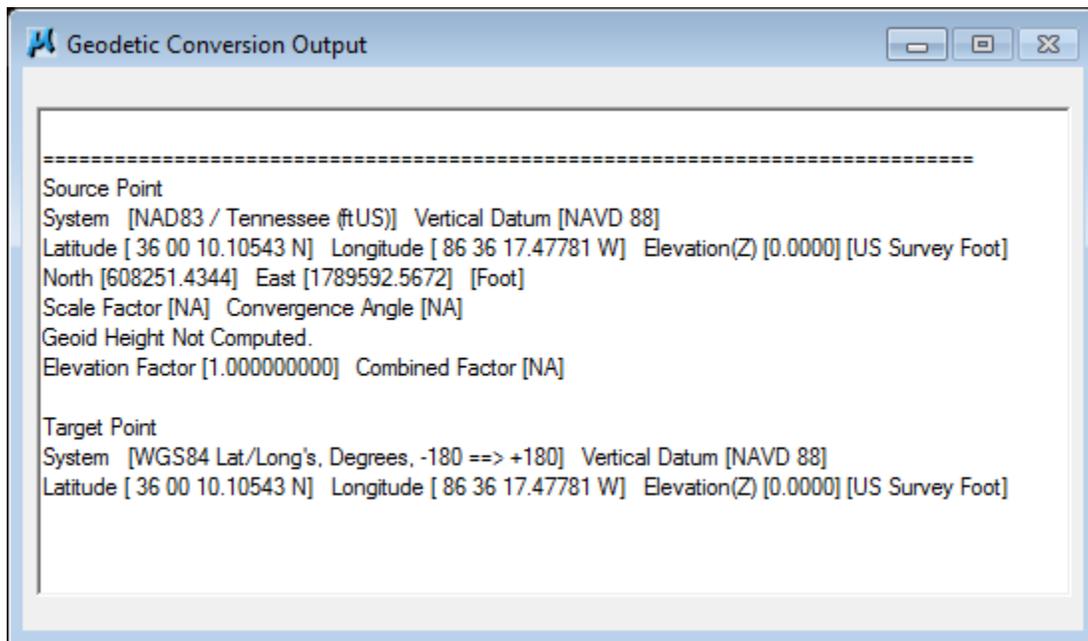
Source Point
Name : [] Store
North : 608251.434400
East : 1789592.567200
Height : 0.000000

Convert
 Inverse
Convert >
< Convert

Target Point
Name : []
Lat : 36 00 10.10543 N
Lon : 86 36 17.47781 W
Height : 0.000000

Display in Output Window

10. A text window will appear with the results of the conversion. To save these results to a text file, go to **File> Save** in the Geodetic Coordinate Conversions dialog, browse to your project folder and give the file a name.



11. To clear the text window for another conversion go to **File> New**.

Note:

To convert from latitude and longitude to state plane coordinates, use a blank space between degrees, minutes and seconds under **Target Point** and use the bottom Convert button.