

XP-SWMM Data Export

- Objective:** Familiarize designer with data export to XPSWMM
- Goal:** Introduce the steps to export the storm sewer layout and drainage area information to XP-SWMM.

Disclaimer: The physical data of the storm sewer system created in GEOPAK Drainage can be exported to XP-SWMM, however, **the designer needs to check the data imported into XP-SWMM**, be aware of the differences in hydrologic method, and make required modifications for XP-SWMM to run.

Some testing of this export process has been done. For most pipes/structures, it appears that the network geometry (pipe diameter, length, coordinates, elevations) appear to transfer correctly for circular pipe. List of potential data that does not transfer is listed below:

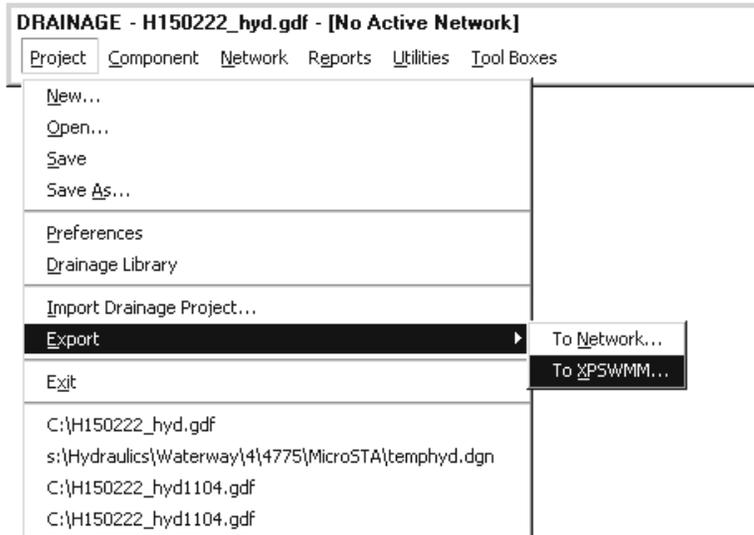
Terminal Node: It has been found that the node invert elevation for a terminal node (only has a pipe out, no pipe into) is the same as the spill crest elevation. Other than that, it appears that the network geometry (pipe diameter, length, coordinates, elevations) appear to transfer correctly for circular pipe.

Pipe-Arch: Does not appear to directly support the pipe-arch shape. If using pipe-arch, make sure that the hydraulic properties of the pipe are equivalent to the designed pipe.

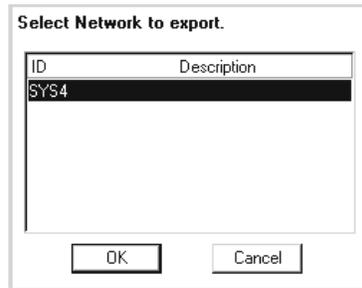
Hydrology: Will import Rational Method Drainage area characteristics; however, will import a default rainfall curve. Since normally XP-SWMM is used with the SCS hydrograph procedure, the hydrologic information must be edited for the nodes anyway.

If you find any additional items that do not transfer correctly, please contact Lisa Sayler or Bonnie Peterson and we'll add to the help sheet and see that it gets sent to GEOPAK.

Step 1. To export the GEOPAK Drainage data into a format which XP-SWMM can read, access the **Project>Export>TO XPSWMM** as depicted below.



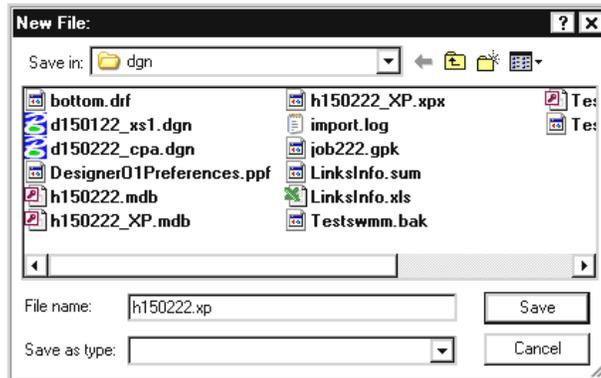
Step 2. Select the Network to export



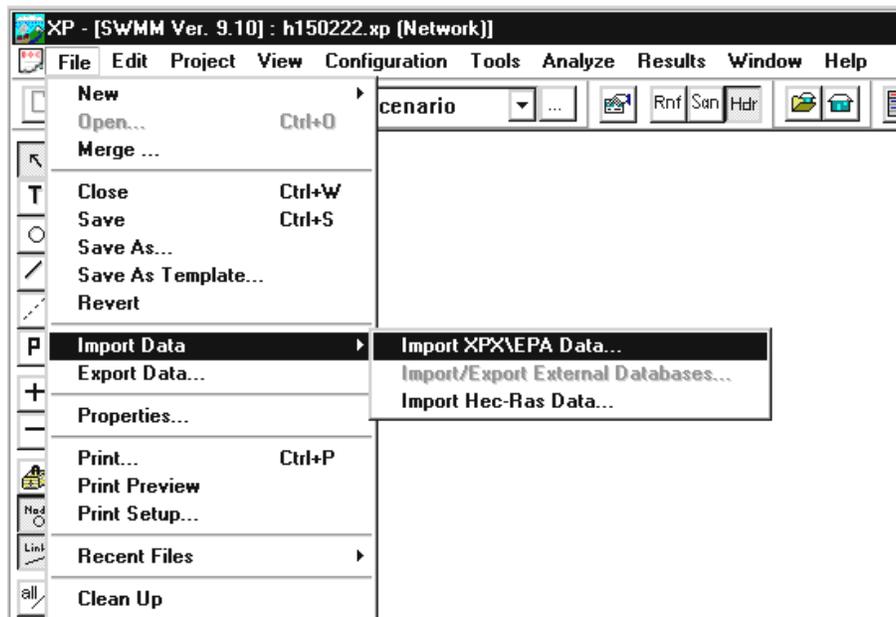
Step 3. Generate an XPX file (the XP-SWMM import file), in your working design directory or separate XP-SWMM working directory, sink or close out of MicroStation.



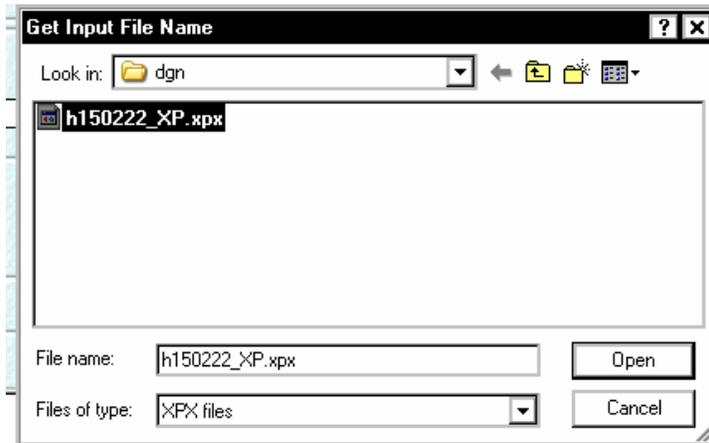
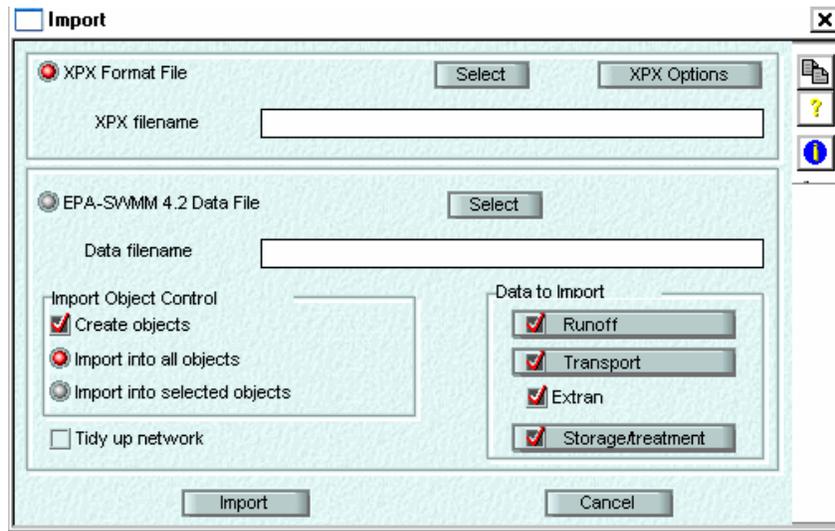
Step 4. Open XP-SWMM, select New and create a new file, such as h150222.XP



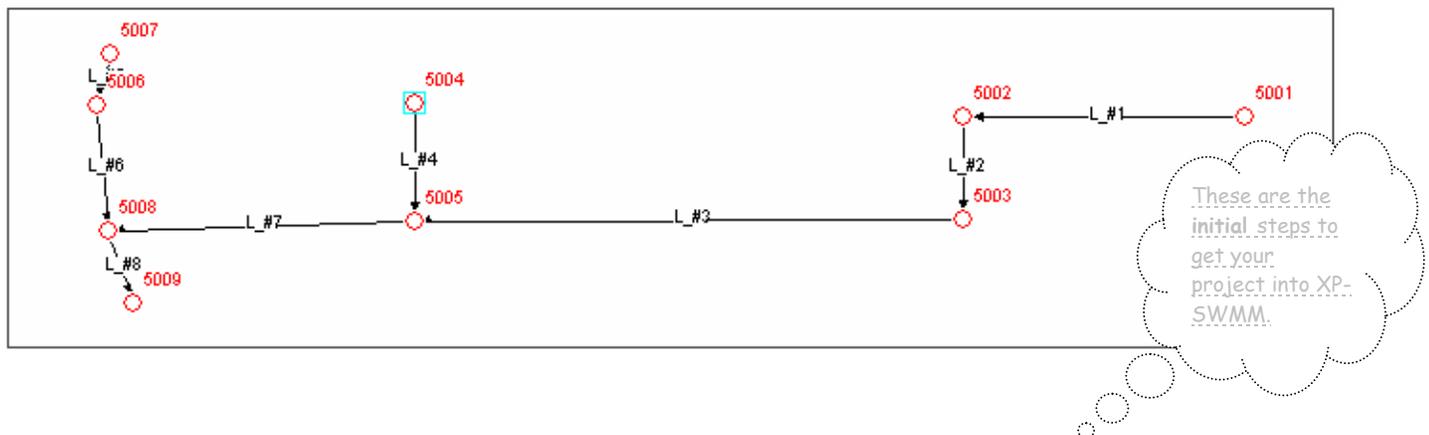
Step 5. Using the import function of XP-SWMM, import the GEOPAK drainage file.



Step 6. Select the Select Button and find the h150222_XP.xpx file.



Step 7. Select Import and open the file and the network is imported.



Step 8-20 The export into GEOPAK Drainage from XP-SWMM is not possible, at this time. 😊