

User Interface Overview - Metric

The purpose of this tutorial is to ease new users of `xpdrainage` into the software. There is a brief overview of the software, covering all the basic aspects of the user interface, followed by a more in depth tutorial.

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The tutorial itself is designed to give you hands-on experience of working with `xpdrainage`. It has been created to demonstrate key features and benefits of the program by running through a simple case study, covering aspects of analysis and design of sustainable drainage networks. You should use the tutorial in conjunction with the program, referring to the results on-screen where necessary. It is worth noting that results will vary slightly depending on how the structures are placed in comparison to the model tutorial. Due to this reason, there are model files that can be opened at the beginning of each tutorial chapter to make sure that you can follow along with the tutorial. Images from the program have been used to illustrate the main points of the procedure.

Introduction to the `xpdrainage` User Interface

We will begin by getting familiar with main aspects of the user interface.

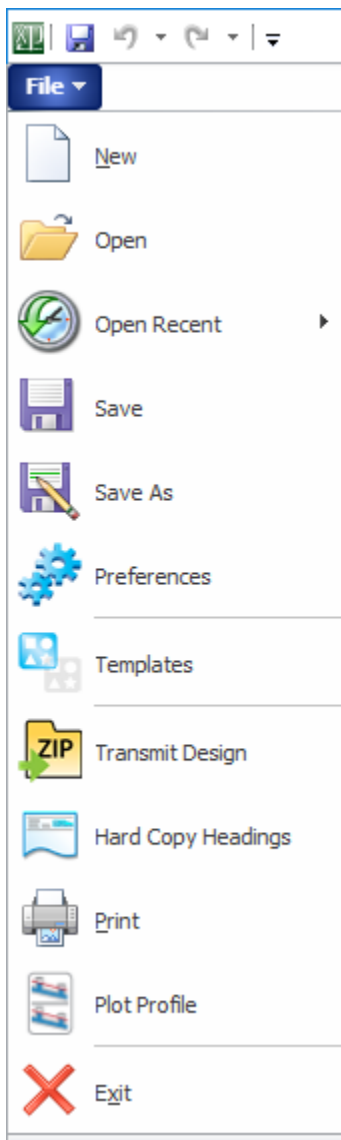
Welcome Screen

This is the screen we see when first opening `xpdrainage`. Within the **Welcome** tab is the ability to access the tutorials (both Metric and Imperial). There are also links to recent webinars, as well as our Help and Resources webpages. The **What Would You Like To Do?** window displays other actions the user can take, such as starting a new design or opening an existing file. Recent Files that have been opened are also listed in this window to allow users to jump back into projects they have been working on. The **Recent Files** tab lists the recent files in more detail, showing the file path, as well as the date that the document was last saved.



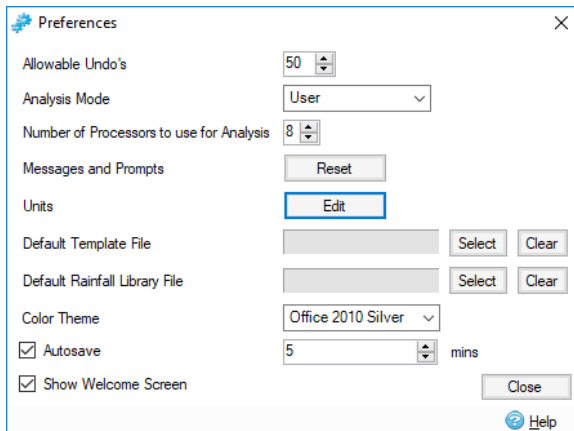
File menu

From here we can start a new project, open an existing one, save a project, print it and exit from `xpdrainage`. For more information about this topic, go to [File Menu](#).



Preferences

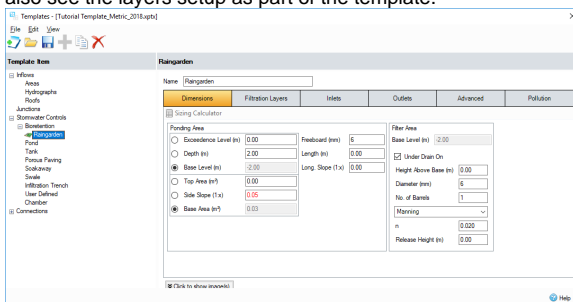
The **Preferences** settings allow designation of units, color theme and general software operation settings. For more information about this topic, go to [Preferences](#).



Templates

Within **xpdrainage**, you can import, create, and export templates that can be transferred to another computer with **xpdrainage** installed. The template items then become available in the **Build** menu and the **Toolbox**. In this model, the Toolbox includes the default Template items, as well as Templates set up specifically for this tutorial. Once we have set up Stormwater Controls that comply with our local standards, we can add them to a Templates file by right-clicking an item and selecting **Add to Templates**. For more information about this topic, go to [Templates](#).

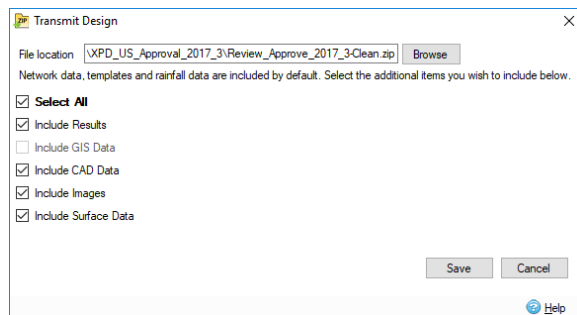
1. Under the **File** menu, select **Templates**. You will see the **Template Manager** where we can view, import, merge, edit and save templates.
2. If you highlight a **Template Group** along the left hand side of the form, you get the option to **Add** a new template, which will start off as a blank copy of the selected item. By right-clicking an existing template, a **Duplicate** can be made, in order to make changes to existing templates. Adding several Templates that have the same name will add a suffix number at the end of the item name. The example below shows that we have saved the **Ponding Area depth, Side Slope, Freeboard** and **Slope** contained in the template. In the **Filtration Layers** tab, you will also see the layers setup as part of the template.



3. Once you have created a template, you can save the template (*.xptx) file for use in other designs. Furthermore, you can **Open** or **Import** another template file for use in your design. The **Open** option will replace any pre-existing template data. Importing a template file will provide you with a list of templates to import to your template list and merge the options available.
4. A **Default Template File** can be loaded and remembered via **File > Preferences**, and then browse to the template file location.

Transmit Design

This allows you to save a zip file together with all the associated files suitable for transferring to a colleague or client, or to the Innovzye Help Desk. You can choose to include Results, CAD data, GIS data, Images or Surface Data, and Network data. Rainfall data will be included by default. For more information about this topic, go to [Transmit Design](#).

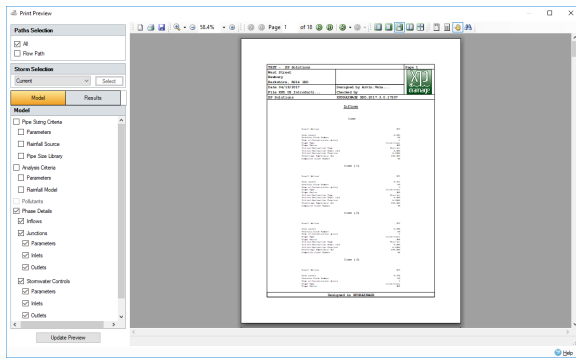


Hardcopy Headings

This is a very useful tool to include the name of the designer and checker and specify the headings which will be printed at the top of each printed page. A user defined logo can be added at the top of each page by browsing for an appropriate image file. For more information about this topic, go to [Hard Copy Headings](#).

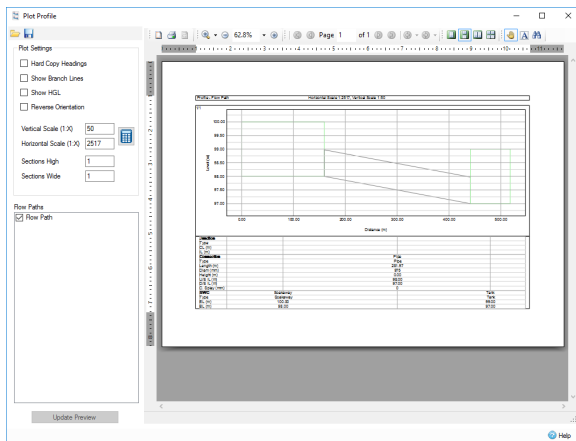
Print

The **Print** tool displays the preview of the document, as well as different options available when outputting the model to a printer or file. You can modify the settings using the toolbar in the upper pane of the dialog. For more information about this topic, go to [Print](#).



Profile Plot

The **Profile Plot** tool allows you to preview all of the available **Flow Paths** and how they will be plotted. You can select the desired scales and output the plots to a printer for distribution. For more information about this topic, go to [Plot Profile](#).

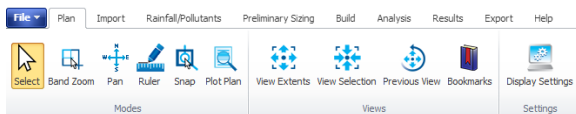


Ribbons

The ribbon tabs across the top of the screen give a simple, ordered approach to the typical workflow of managing site data and building a drainage scheme. There are quicker ways to access your data, but the ribbon tabs are a good way to begin.

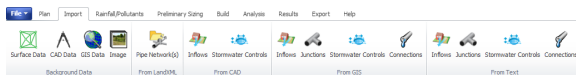
Plan Ribbon

Navigate and manipulate the 2D plan view (in the middle of your screen). For more information about this topic, go to [Plan Ribbon](#).



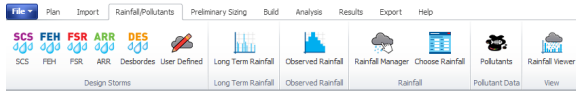
Import Ribbon

Import and create data that describe your site. For more information about this topic, go to [Import Ribbon](#).



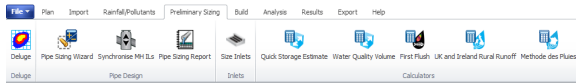
Rainfall/Pollutants Ribbon

Import, create and manage rainfall records and pollutants. For more information about this topic, go to [Rainfall Ribbon](#).



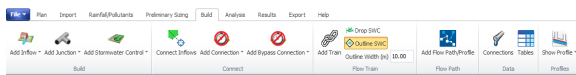
Preliminary Sizing Ribbon

Use a range of preliminary sizing tools to quickly assess your site and complete sizing calculations. Automatically size your pipe networks and create Full, HEC-22, or Methode de Caquot pipe sizing reports. Quick and handy analysis of runoff across the site and easy estimates of the treatment volume needed. For more information about this topic, go to [Preliminary Sizing Ribbon](#).



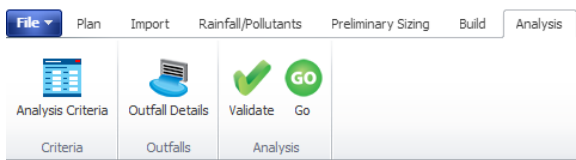
Build Ribbon

Create a new design using individual items or as a treatment train – this is the way we generally refer to the sustainable drainage network that is to be designed using xpdrainage. For more information about this topic, go to [Build Ribbon](#).



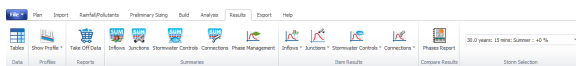
Analysis Ribbon

Validate the design of the treatment train (are all essential data fields complete?) and analyse rainfall and pollutant flow through the treatment train. For more information about this topic, go to [Analysis Ribbon](#).



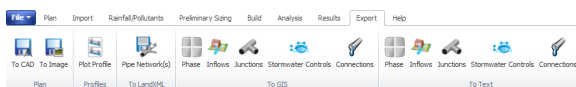
Results Ribbon

Tabular and graphical views of the analysis results. For more information about this topic, go to [Results Ribbon](#).



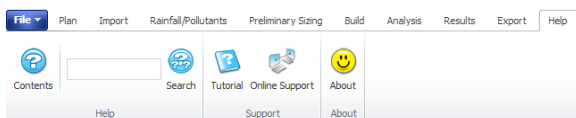
Export Ribbon

Export data from your site to a range of formats. For more information about this topic, go to [Export Ribbon](#).

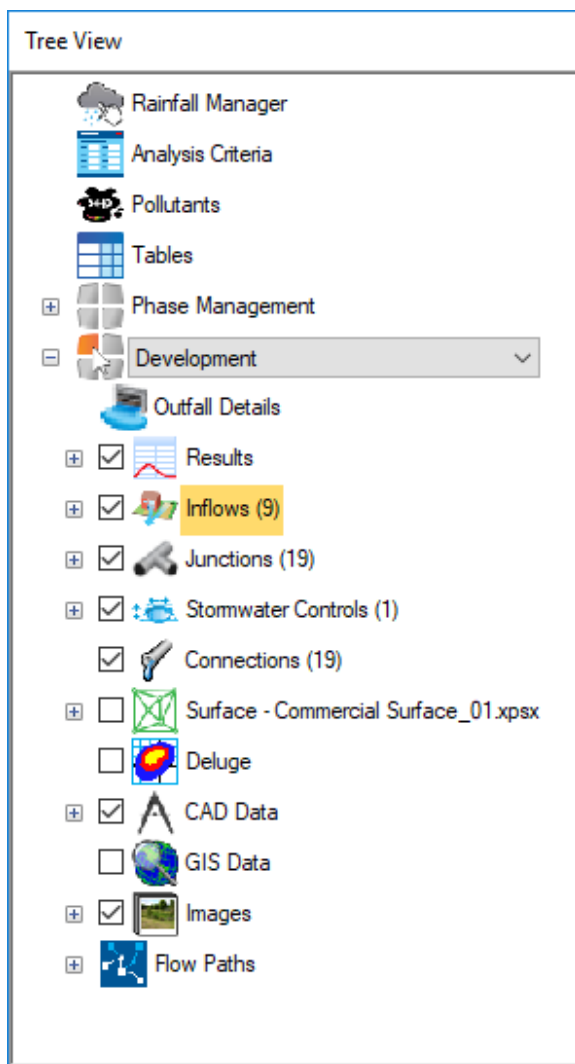


Help Ribbon

xpdrainage works best with online help – so long as you are connected to the internet. If not, offline help is available. For more information about this topic, go to [Help Ribbon](#).



Tree View



On the left-hand side of the screen you can see the [Tree View](#). From here you can directly access and manage all the elements of your site and design, rather than finding them on the ribbon menu. This allows you to quickly navigate your project.

Just a quick note about **Phase Management** – this allows the project to be separated into various phases or scenarios. Perhaps the most likely division is between pre-development and post-development. But the site may be developed in successive phases. And the treatment train could be built-up in successive phases.

This can also be used to compare alternative designs, and test their relative effectiveness.

Plan

The area in the centre of the screen is reserved for the 2D [Plan](#) view of the site – this is the main window for creating and editing drainage designs.


Toolbox


On the right-hand side of the screen displays the [Toolbox](#), which makes it easy to access the various functions and items that allow the creation of drainage schemes on the plan view. A default set of tools are supplied with the software. Additional items can be added through the Template Manager (more about that later).

An item can be added to the plan graphically by clicking and dragging the item to the required location.


Toolbox


- ⊕ Tools
- ⊕ Inflows
- ⊕ Junctions
- ⊕ Stormwater Controls
- ☐ Connections


 Attenuated Flow


 Box Culvert


 Lagged Flow

 No Delay





 Pipe

 Rectangular Channel










 Trapezoidal Channel


 Triangular Channel

Toolbox


-  Tools
-  Inflows
-  Junctions
-  Stormwater Controls


Bioretention


-  Chamber
-  Infiltration Trench
-  Pond
-  Porous Paving
-  Raingarden
-  Soakaway
-  Swale
-  Tank
-  User Defined


-  Connections


Toolbox


 Tools

 Inflows

 Junctions

 Manhole

 Simple Junction

 Stormwater Controls

 Connections

Toolbox

⊕ Tools

⊖ Inflows



Catchment Area



Green Roof



Hydrograph

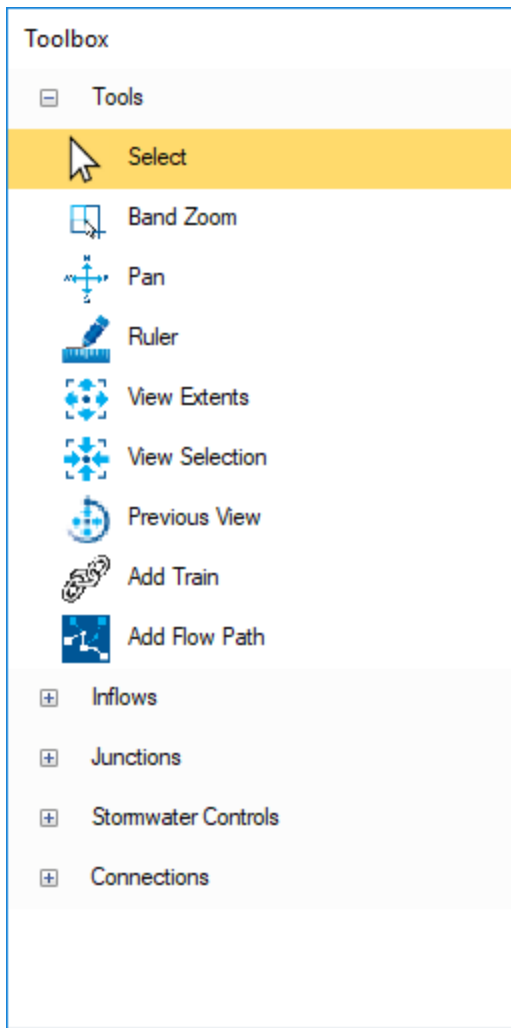


Roof

⊕ Junctions

⊕ Stomwater Controls

⊕ Connections



Shortcuts

The following shortcuts are available:

Ctrl+Z = Undo Alt+H = Help Ribbon
Ctrl+Y = Redo Alt+S = Site Ribbon
Ctrl+S = Save Alt+B = Build Ribbon
F4 = Properties Alt+A = Analysis Ribbon
F5 = Results Alt+F = File menu