

Release Notes 2025



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Introduction

Welcome to MIKE+ 2025.

In this Release Note, you will find information about new features of MIKE+, and what you need to know in order to install and get started with MIKE+ 2025.

MIKE+ is our new, flexible system for modelling and designing water distribution networks and collection systems for wastewater and storm water, as well as for modelling river networks and 2D surface flooding.

MIKE+ is offered in two versions:

- **MIKE+**
- **MIKE+ ArcGIS**

With MIKE+ you get:

- GIS-based model building and data management
- Powerful hydraulic simulation engine that supports parallel processing
- Integrated water quality, fire flow, real time control, flushing, multi-source tracing and hydraulic simulation (water distribution)
- Integrated water quality, control rules, LID and Soakway, rain dependent inflow and infiltration (collection system and river network)
- Long-term statistics (collection system)
- Integrated 2D hydraulic and water quality, dynamic interactions with collection system and river networks, surface flows visualisation (2D overland)
- Full undo and redo capability in all editors
- Thematic mapping and integrated result visualisation
- Open data models - easy integration with other applications
- Instant data checking and validation

With MIKE+ ArcGIS you get:

- Sophisticated GIS capabilities and smooth integration with ArcGIS Pro. MIKE+ embeds ArcGIS/ArcGIS Pro software for GIS-based model building, data management and result presentation.

System requirements

Operating systems

Fully supported Windows operating systems *	Windows 11 Pro, version 24H2 (64 bit) Windows 11 Pro, version 23H2 (64 bit) Windows 10 Pro, version 22H2 (64 bit) Windows Server 2022 Standard, version 21H2
Non-supported but partially tested operating systems **	Windows Server 2019 Standard, version 1809
Supported Linux distributions (for simulations execution only) ***	Red Hat Enterprise Linux (RHEL) 8 and 9 (all 64-bit) Ubuntu 22.04 and 20.04 (all 64-bit)

* Fully supported operating systems are systems that have been tested in accordance with MIKE's Quality Assurance procedures and where warranty and software maintenance agreement conditions apply.

** Non-supported but partially tested operating systems are systems, which are not officially supported by the MIKE software products. These operating systems have only undergone very limited testing for the purpose of MIKE software, but the software and key features are likely to work. Installation of MIKE software on a non-supported operating system is done so at the user's own risk. The MIKE software warranty and software maintenance agreement conditions do not apply for unsupported operating systems and DHI is under no obligation to provide assistance or troubleshooting for cases where the software is being used on a non-supported operating system.

*** Supported Linux distributions are the Linux distributions used for building and testing MIKE+ for Linux 2025. Other distributions may or may not work and are not recommended. However, MIKE+ for Linux has been successfully installed on several other Linux distributions, including Ubuntu Kylin, Galaxy Kylin (V10), AlmaLinux and Debian (all 64-bit). MIKE+ for Linux only supports simulations execution from command lines, excluding opening the user interface.

Please note that when running a fully supported operating system as a 'guest operating system' on a virtualization platform, it is automatically downgraded to a non-supported operating system under the conditions provided above.

Minimum hardware/software requirements

Processor	compatible with x64 instruction set, 2.2 GHz or higher
Memory (RAM)	4 GB or higher *
Storage	64 GB or higher *
Display	resolution 1024 x 720 (Full HD 1920 x 1080 recommended), 24-bit color (true color)
Graphics adapter	64 MB RAM (256 MB RAM or higher recommended), 32-bit true color **
Software requirements	Microsoft .NET Framework 4.7.2 or higher, for MIKE+. Microsoft .NET Desktop Runtime 6.0.5, or a later patch release, is also required for MIKE+ ArcGIS.

* The actual required amount of memory and disk space depend on the usage (application, model setup, size of data files etc.)

** MIKE+ utilizing GPU for 2D overland simulations requires a Nvidia graphics card with compute capability 6.0 or higher. Please note that some of these graphics' cards have varying performance in single compared to double precision calculations. The GPU functionality is based on version 12.5 of the Nvidia® CUDA® Toolkit.

Installation

To install MIKE+:

To install MIKE+, please go to the MIKE+ product folder and execute the setup.exe file either on the MIKE 2025 USB or from the downloaded, un-zipped installation files. Press the 'Install' button to begin installation.

The setup program will automatically install all necessary files and folders on your computer. Additionally, an entry is created in the Start Menu for MIKE+.

To install MIKE+ ArcGIS:

To install MIKE+, please go to the MIKE+ product folder and execute the setup.exe file either on the MIKE 2025 USB or from the downloaded, un-zipped installation files. Press the 'Install' button to begin installation.

The setup program will automatically install all necessary files and folders on your computer. Additionally, an entry is created in the Start Menu for MIKE+.

Please choose ArcGIS Pro's "ArcGISPro.msi" to install ArcGIS Pro separately. This version of MIKE+ comes with ArcGIS Pro 3.3. You find the installation of ArcGIS Pro in the folder "Prerequisites\ArcGIS Pro 3.3". Other versions of ArcGIS Pro might also work with MIKE+ but are not covered by warranty and software maintenance agreement conditions.

Optional installation of PostgreSQL/PostGIS:

Both MIKE+ and MIKE+ ArcGIS are installed with SQLite/SpatiaLite. If you wish to use the alternative database option, PostgreSQL/PostGIS then please install the two products found in the "Prerequisites\PostgreSQL 16.4" and "Prerequisites\PostGIS 3.4.2" folders. Before you install the two products, we recommend that you read the note describing how to install PostgreSQL/PostGIS - this is available [here](#).

License file and dongle

Please Note that when using the local or network license option, which require a license file and a dongle, then

- the DHI License Manager must be installed separately.
- all licensed applications included in MIKE 2025 require a 2025 version of the DHI License Manager.
- a new license file format (file extension dhilic2) has been introduced with MIKE 2022 and these license files can only be used together with a DHI License Manager 2022 or newer.

To use MIKE software in licensed mode, please refer to the DHI License Manager Release Notes ([License Manager Release Notes](#)).

Product invocation

Launch MIKE+ from the Windows Start menu.

Support

For general support, please refer to our [Customer Care Portal](#).

If you experience any difficulties, or if you have questions, please contact our Customer Care team at mike@dhigroup.com.

You can also contact your local Customer Care team for support in your local language. A list can be accessed from [here](#).

Important note about EPANET engine

DHI EPANET engine version 2.2 has been introduced in MIKE+ 2021 Update 1. Since then, MIKE+ has supported both DHI EPANET 2.0 and 2.2 versions to support backward compatibility.

Many improvements have been made to version 2.2 in following releases of MIKE+, which are not necessarily supported by version 2.0, and therefore it is strongly recommended to use the latest version 2.2 whenever possible.

MIKE+ 2025 is the last release supporting both engine versions. As from MIKE+ 2025 Update 1, DHI EPANET 2.0 will no longer be available.

New features and fixed issues

Every new release of MIKE+ consists of new modules, new features and/or corrections to problems or significant inconsistencies discovered in previous releases. Please find below short descriptions of the most significant news.

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New features

Module/type	New feature
General	A new type of result presentation for scatter plots has been added. It allows to plot points representing individual time steps from the result, where the X-values and Y-values are respectively obtained from any selected result items. It can be used to e.g. visualize correlations between water levels and discharge values in a specific location, or between a pressure and a pump flow, etc. It is accessed from the 'Scatter plot' button in the 'Results' tab of the ribbon. See Figure 1 below.
General	A new plots manager has been added, which can save, organize, edit and re-open result windows. It saves results settings (typically the locations, result items and source result files), but results are loaded from the result file only when opening the result window, and it therefore allows quickly reopening pre-defined result windows to visualize updated simulation results after re-running a simulation. It can save result windows from time series plots, profile plots, result maps, results tables, cross section plots, scatter plots, bar charts and organize them in folders. It also allows duplicating result windows and editing the settings for time series plots and profile plots before opening them, to e.g. display results from an alternative result file. This plots manager is by default shown in the left panel ('Plots' tab) and can be opened using the 'Plots view' button in the 'Project' tab in the ribbon. See the 'Plots Management' chapter from the Model Manager user guide for more information on how to use this new feature. Also see Figure 2 below.
General	The former 'Result Items' window used to select result items to plot from 1D result files, and accessed from the context menu of the list of result files or from buttons in the ribbon, has been revisited to offer improved workflows. It is now replaced by distinct selection windows for result maps, time series plots, tables, etc. When creating new time series plots or result tables, these revisited dialogs now offer new filtering options to show only selected result items or selected ranges of chainages. They also contain a new option to select items from the current selection on the map.
General	In the 'Results' panel showing the list of loaded result files, it is now possible to remove selected files all at once. This is achieved either using the 'Remove' button at the top or using the 'Remove' option in the context menu.
General	A new option in the context menu of time series plots (right-click on the plot) allows saving the time series to .dfs0 file, e.g. for future usage as input time series.

General	A new option in the context menu of time series plots in the 'Plots and statistics' editor (right-click on the plot) allows copying the computed and measured time series to clipboard, so that they can be pasted in another program for custom analyses and processing.
General	A new option in the context menu of results tables (right-click on the table) allows saving the content of the table to a text file in .csv format, for use in another program.
General	In the 'Versions management' tools, the Update tool used to either fully update a feature (e.g. node or pipe) with all its changes from the new asset data or keep it fully unchanged. This tool now offers more control, and allows managing some conflicts at the attribute level, so that it is possible to update only some of the attributes (e.g. diameter) while keeping others unchanged.
General	MIKE+ now supports longer feature names (in MUID fields). Note that for Water Distribution models, this is only supported with the engine version DHI EPANET 2.2.
General	Adding a TIF image as a layer on a map now allows reading image coordinates from that file, when available.
General	The 'Import and export' tool can now import and export data to/from the table m_Selection, to handle selections saved in the Selection manager.
General	A new option 'Auto-refresh changes made by others' has been added to the 'User preferences' dialog. When multiple users work simultaneously on a PostgreSQL / PostGIS database and they all have this option active, it forces a synchronization of all MIKE+ instances.
Collection System	Coupling of the collection system network in MIKE+ to MIKE SHE now also allows coupling soakaway nodes. It allows coupling to the overland flow, overland drainage, saturated zone and saturated zone drainage from MIKE SHE.
Collection System	A new tool 'Transfer MIKE 1D data to SWMM' has been added, which transfers the main network data defined in the model type 'Rivers, collection system and overland flows' to SWMM data tables used in the model type 'SWMM collection system and overland flows'. It is accessed from the 'Special tools' button in the 'CS network' tab of the ribbon, next to the former tool 'Transfer SWMM data to MIKE 1D'. See Figure 3 below.
Collection System	A new result item 'Spilling discharge above ground' can be saved to network result files. It saves the discharge spilling on the surface and irreversibly leaving the model, for nodes with a 'Spilling' cover type.
Collection System	The two tools 'Show connected loads' and 'Show disconnected loads', formerly available in the 'Catchments' tab of the ribbon, have been moved to the 'CS network' tab.
Collection System and Rivers	A new model data validation has been added during simulation execution, to identify and report structures lower than the bottom or the river bed or pipe. This data error may in some cases lead to significant volume errors during simulations. This is now reported as an error when starting the simulation, for new model setups. It is however reported as a warning for model setups created with older versions of MIKE+ and upgraded to MIKE+ 2025, in order to keep validated setups running. This automatic conversion of error into warning can be disabled, by removing the custom option 'MessageldToWarning' from the 'MIKE 1D engine configuration' window: see Figure 4 below.
Collection System and Rivers	It is now possible to define alternative scenarios for data from the 'Groundwater couplings' editor for couplings to MIKE SHE or FEFLOW, which is now part of the 'Loads and boundaries data' group of alternatives in the Scenario Manager.
Rivers	The Data Assimilation module offers a new option to update the model based on the water depth item, as an alternative to the water level item.

2D overland	A new tool to estimate the discharge from a 2D overland result file flowing through a cross section is now available. It can optionally also include the discharge from a 1D network result file, to return the total discharge from both 1D and 2D models. It is accessed with the 'Discharge through section' button in the 'Results' tab of the ribbon. In this first version of the tool, only .dfsu result file format is supported but not .dfs2 format. See Figure 5 below.
2D overland	A new tool to derive hazard values from water depth and speed from a 2D overland result file is now available. It can also derive additional results like total duration of the flood, time to the start of the flood or time to the peak of the flood. It is accessed with the 'Create hazard map' button in the 'Results' tab of the ribbon. See Figure 6 below.
2D overland	While loading a 2D result file into MIKE+, it is now possible to select result items to plot on the map at the same time. See Figure 7 below.
2D overland	Isolines displayed on the map for 2D result layers can now be exported to shape files. This option is available in the context menu of the result layer in the 'Layers and symbols' tree, along with the former export options. See Figure 8 below.
2D overland	Preparation of coupled 1D-2D simulations (export step for creating a .couple simulation file) with a large number of couplings is now significantly faster.
2D overland	In Cross section plots, showing water level results across 1D and 2D domains, the tooltip now shows also the water depth value.
2D overland	In the Scenario Manager, 2D overland data have been separated into two groups of alternative data, respectively for 2D boundary data and remaining 2D overland data. This change eases the definition of scenarios combining various alternatives of boundary conditions with alternatives of 2D model structure.
2D overland	The calculation of the QH-relation tables for 2D Culvert structures has been updated to improve alignment with culverts in 1D networks.
2D overland	The MIKE Zero Toolbox, available in the 'Tools' tab from the ribbon, offers a new 'Dfsu Statistics' tool to compute statistical values from time-varying data in .dfsu files.
2D overland	The 'Data Viewer', used to open .mesh or .dfsu files from the ribbon, offers multiple improvements: <ul style="list-style-type: none"> • Ability to reproject mesh files, from the 'Data' menu in the upper toolbar • Ability to save and load polygon location after drawing a selection polygon on the map, to easily repeat manual post-processing operations • Ability to view area of each element selected within a polygon, for improved post-processing operations • Ability to save and load time series point locations after picking some locations on the map, with the 'Position of time series' tool.
Water Distribution	In previous versions of MIKE+, the head loss formula was selected in the 'Simulation setup' editor. This could possibly be a source of mistake if different simulations were defined with a different head loss formula, because e.g. the 'Pipes' editor showed roughness values corresponding to the formula selected for the active simulation, only. This has been changed so that the head loss formula is now selected in the 'Model type' editor and is identical for all simulations in the project. See Figure 9 below.
Water Distribution	The head loss formula 'Modified Hazen-Williams' is now also supported. It is only available when using the engine version DHI EPANET 2.2. See Figure 9 below.
Water Distribution	Actual operating Q-H points from simulation results in pumps can now be displayed in the 'Pumps' editor and compared to the theoretical pump curve. These results are added using the 'Pump QH plot' button in the 'Results' tab of the ribbon. While animating results, the point from the current time step is also displayed with a specific symbol. See Figure 10 below.

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Water Distribution	A new 'Operational volume' value is shown for tanks with variable level and air-chambers. It describes the usable volume of the reservoir, i.e. the volume corresponding to the range of level in which the reservoir operates. It is automatically computed as a function of the specified geometrical properties of the tank or air-chamber.
Water Distribution	A new 'Full stroke time' parameter is added to the Valves editor, for use in Water Hammer simulations. It controls the time for the valve to move from fully open to fully closed position.
Water Distribution	It is now possible to define alternative scenarios for data from the 'Zones' editor, which is now part of the 'Water demands' group of alternatives in the Scenario Manager.
MIKE 1D engine: Data assimilation	Enabled lateral correction output when using data assimilation module. Lateral correction enabled for discharge observations only.
MIKE 1D engine	Added stack trace to log file.
Couplings engine	Enabled coupling of MIKE 1D river models to FEFLOW.

Fixed issues

Module/type	Error/Inconvenience
General	Various data validations have been added in various editors, especially to report missing critical values.
General	The first column in results tables was too narrow and did not always show the entire row number.
General	When a result table was opened and when the corresponding simulation was re-run, the content of the table was not always refreshed with updated results at the end of the simulation.
General	After loading a saved configuration in the 'Import and export' tool, it was sometimes not possible to change the source unit of assignments.
General	When exporting data to Excel from the 'Import and export' tool, data were exported in SI units regardless of the selected target unit.
General	When attempting to import data from a CAD file in the 'Import and export' tool, some CAD files triggered an error saying that the file was invalid.
General	When exporting a feature layer to a shape file from the 'Layers and symbols' tree, any user-defined column of result added to this feature table was exported with NaN values.
General	The 'ArcGIS Integration' tool failed to export model data at the proper location on the map, when working with a map projection using length units of US Feet.
General	The 'ArcGIS Integration' tool failed to export map layers when the computer's settings were set to use comma as decimal separator.
General	After connecting to a WMS server to get background maps, MIKE+ did not always list all map projections supported by the server.
General	When starting a simulation in MIKE Cloud, the upload of files from network drives has been fixed.

Collection System	In some cases, merging pipes with the 'Network simplification' tool resulted in incorrect geometry of merged pipes.
Collection System	With some result files, adding a result layer on the map failed with NaN values shown in the color palette values.
Collection System	The special selection 'Load points connected to selected nodes/pipes' did not select any load point.
Collection System	Values pasted from the clipboard to the 'Curves and relations' editor were considered expressed in SI unit, instead of expressed in the unit shown in the user interface depending on the selected unit system.
Collection System and Rivers	The 'Copy' button in the 'Simulation setup' editor did not copy the list of result files included in the simulation.
Collection System and Rivers	The 'Zoom' buttons in the 'Analyse network' window from the 'Simulation setup' editor failed to zoom to some locations.
Collection System and Rivers	Result items from individual elevation zones from RDI catchments were not grouped together when presenting the list of result items from the file.
Rivers	While digitizing cross sections locations on the map with the tool 'Create and update cross sections', pressing the 'Esc' key led to an unexpected error and wrong cross sections data created.
Rivers	When attempting to compute the Q/h relation for a river boundary in the 'Boundary conditions' editor, an incorrect message reported that no cross section was found in case there was one, but it was not the last one for the specified river in the 'Cross sections' editor.
Rivers	Simulations sometimes reported errors about invalid catchment connections when the connections were defined along an entire river.
Rivers	An unexpected error "Object reference not set to an instance of an object" which sometimes occurred when importing a MIKE 11 model setup has been fixed.
Rivers	In the 'Weirs' editor, the graphical view of the structure ignored the 'Datum' value.
Rivers	The path to the .xns11 file storing cross sections was lost after renaming the MIKE+ project using the 'Save as' option.
Rivers	In the 'Processed data' tab of the 'Cross-sections' editor, the angle correction was in radians although the indicated unit is degrees.
2D overland	The 2D domain level (ground level) shown at the cursor position in the lower toolbar of the main map has been corrected when using a .dfsu file as 2D domain, so that it properly shows values within elements instead of node locations.
2D overland	The 'Identify' and 'Open layer editor' buttons did not work with the 1D-2D couplings layer on the map.
2D overland	2D boundary conditions were not visible on the map when the symbology type was set to e.g. diamond, star, or other types.
2D overland	MIKE+ abruptly closed down when creating a new distributed source or point source from the map.

2D overland	Using a shape file as land cover layer in the '2D surface roughness' editor sometimes triggered an error "Illegal storage access" when running the simulation.
2D overland	When selecting a .dfs file to define building zones in the '2D infrastructures' editor, the height type was sometimes wrongly set to 'Height above ground'.
2D overland	The performance for creating a roughness file from a shape file when using the option 'Background layer of individual polygons' in the '2D surface roughness' editor has been improved when the shape file contains complex polygons (containing huge numbers of vertices and/or holes).
2D overland	An unexpected error occurred when trying to create a result map from a 2D result file, if the active time step of the animation was not set to the first time step.
2D overland	During the import of MIKE FLOOD model setups, river names may be corrected to ensure a consistent use of case in all editors, but this correction was missing in the 'Nodes' and '1D-2D couplings' editors, hence reporting invalid river names after the import.
2D overland	The 'Create couplings' tool reported incorrect river names in the Reporting tab to describe error locations.
2D overland	When creating river bank or natural channel couplings with the 'Create couplings' tool with the option 'Channels from table', the option to import the coupling locations from a text file did not properly save the locations, which were lost when closing the table.
2D overland	The 2D domain layer was not exported to ArcGIS Pro when requested in the 'ArcGIS Integration' tool.
2D overland	Fixed an error in the calculation of orifice coefficients for 2D culvert structures.
2D overland	Fixed an error in 2D overland simulations on a GPU, where section discharge calculations could be incorrect if the discharge line contains only one face.
SWMM	Initial database validation (when opening the project) was abnormally long with some SWMM projects.
SWMM	Title and description specified in the 'Description' editor for SWMM projects were not saved.
Water Distribution	In the 'Junctions' editor, the unit of the flow coefficient shown in the user interface for emitters has been corrected. Its usage in the simulation remains unchanged.
Water Distribution	An error "Multiple nodes with the same ID" was returned when displaying results in the 'Property and result explorer' panel, when the model contained identical IDs for junctions and demand allocations.
Water Distribution	When working with scenarios with different zone extents, the 'Zones' editor wrongly listed network zones which didn't exist in the active scenario.
Water Distribution	Flow results from Water Hammer simulations were shown in m3/s instead of m3/h when using the unit system 'SI units, CMH'.
Water Distribution	Time unit for the curve type 'Pump flow setpoint' in the 'Curves and relations' editor was wrongly shown as being in seconds whereas it is in hours.
Water Distribution	The derived result item 'Pressure gradient' always showed 0 values.
Water Distribution	With the Autocalibration special analysis, results were not loaded in the 'Outputs' tab at the end of the simulation.

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Water Distribution	Simulations reported unexpected errors about invalid controls, when regulated valves were set as inactive (i.e. ignored in the simulation).
Water Distribution	With the Fire flow special analysis, the list of nodes considered in the analysis wrongly included the source (selected) node as well as inactive nodes.
MIKE 1D engine: Data assimilation	Fixed bug resulting in incorrect detection of an estimated error forecast parameter.
MIKE 1D engine	Added check to trigger error when link channel and culvert bottom elevations are lower than the bottom elevations of connected branches.
MIKE 1D engine	Enabled outputting of non-double control variables
MIKE 1D engine	Fixed null reference exception occurring when using mixed HD and routing branches and an adaptive time step (TT63741).
MIKE 1D engine	Ensured that action active sensors are associated with the correct location, in cases where an action is used in two or more locations (TT63893).
MIKE 1D engine	Fixed unit conversion and display issue (TT64694).
MIKE 1D engine	Fixed catchment connection link ID error (TT64916).
MIKE 1D engine	Fixed engine indexing error for HD branches (TT65001).
MIKE 1D engine: Data assimilation	Ensured that data assimilation can be limited to the river reach holding the assimilated measurement (TT65011).
MIKE 1D engine	Fixed problem with running setups saved using .mhydro extension (TT65017).
MIKE 1D engine	Fixed units issue when using control rules and orifices (TT65020).
MIKE 1D engine	Fixed performance issue when loading a dfs0 file with many items (TT65053).
MIKE 1D engine	Enabled transfer of instance variables between methods in scripts (TT65076).
MIKE 1D engine	Fixed error in calculation of hydraulic radius (TT65110).
MIKE 1D engine	Fixed inconsistent use of MaxDepth in culvert Qh relations (TT65111).
MIKE 1D engine	Fixed error occurring when reading initial conditions from a state file (TT65276).
MIKE 1D engine	Enabled use of minimum capacity curves when using wet well set point regulated Q-dH and Q-H pumps (TT65322).
MIKE 1D engine	Fixed error occurring when using simple routing branch with catchment source (TT65344).
MIKE 1D engine	Fixed error occurring when using US units with PID controls (TT65487).

Figures

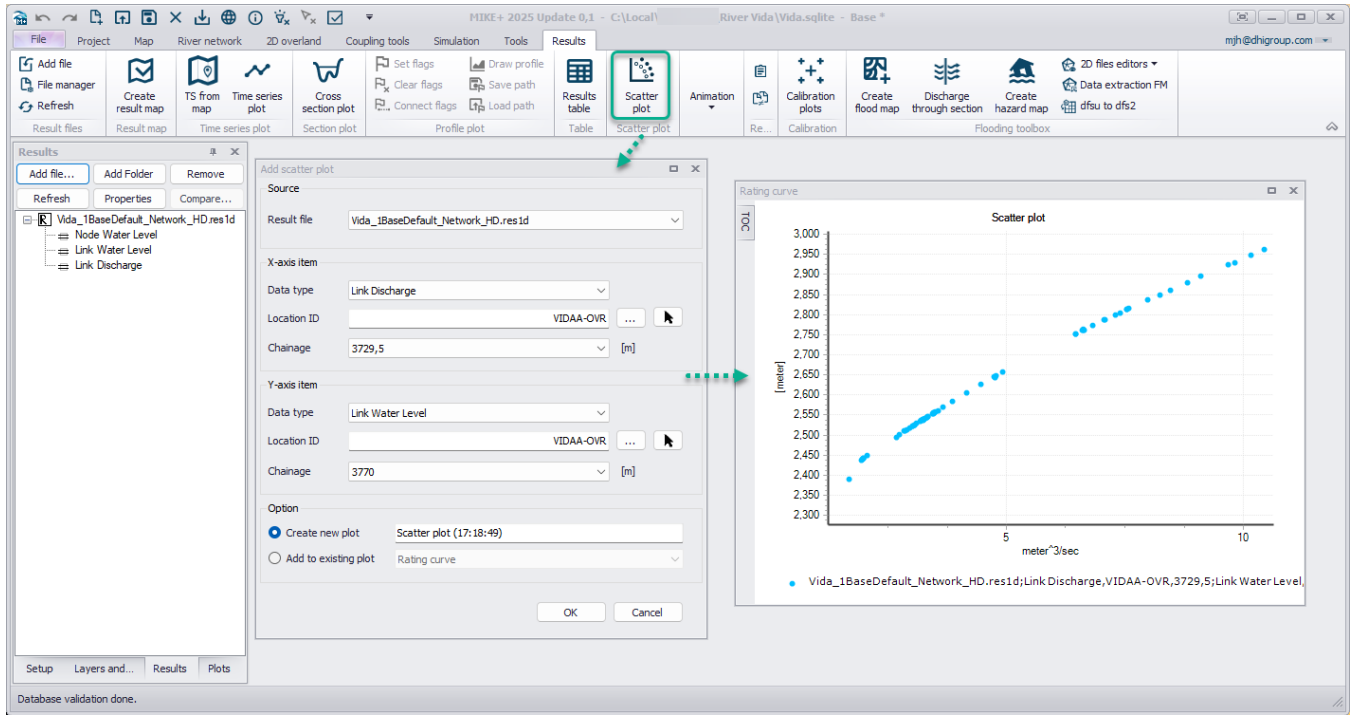


Figure 1 – How to create a new scatter plot from 1D results

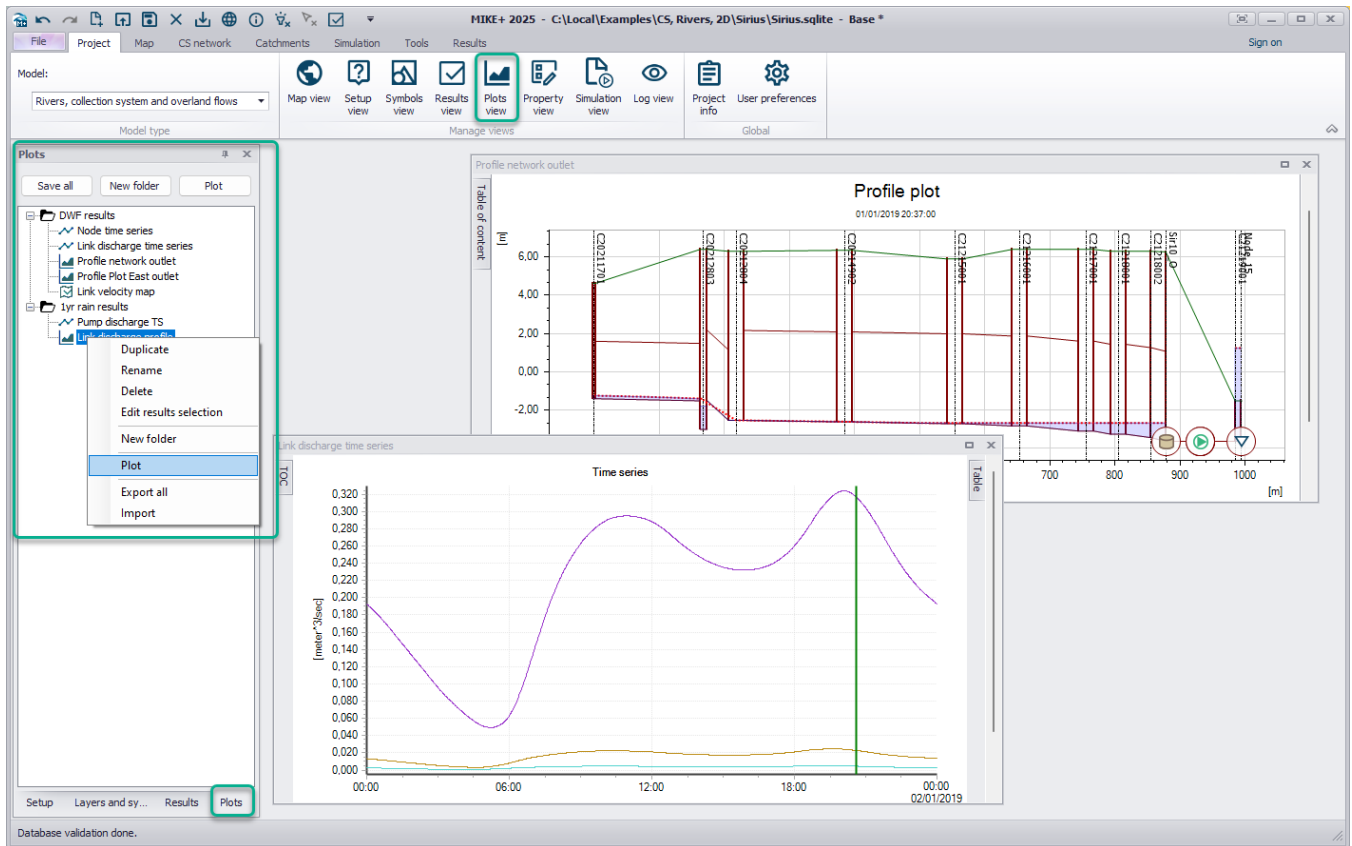


Figure 2 – Accessing the new Plots manager to save, edit and open result windows

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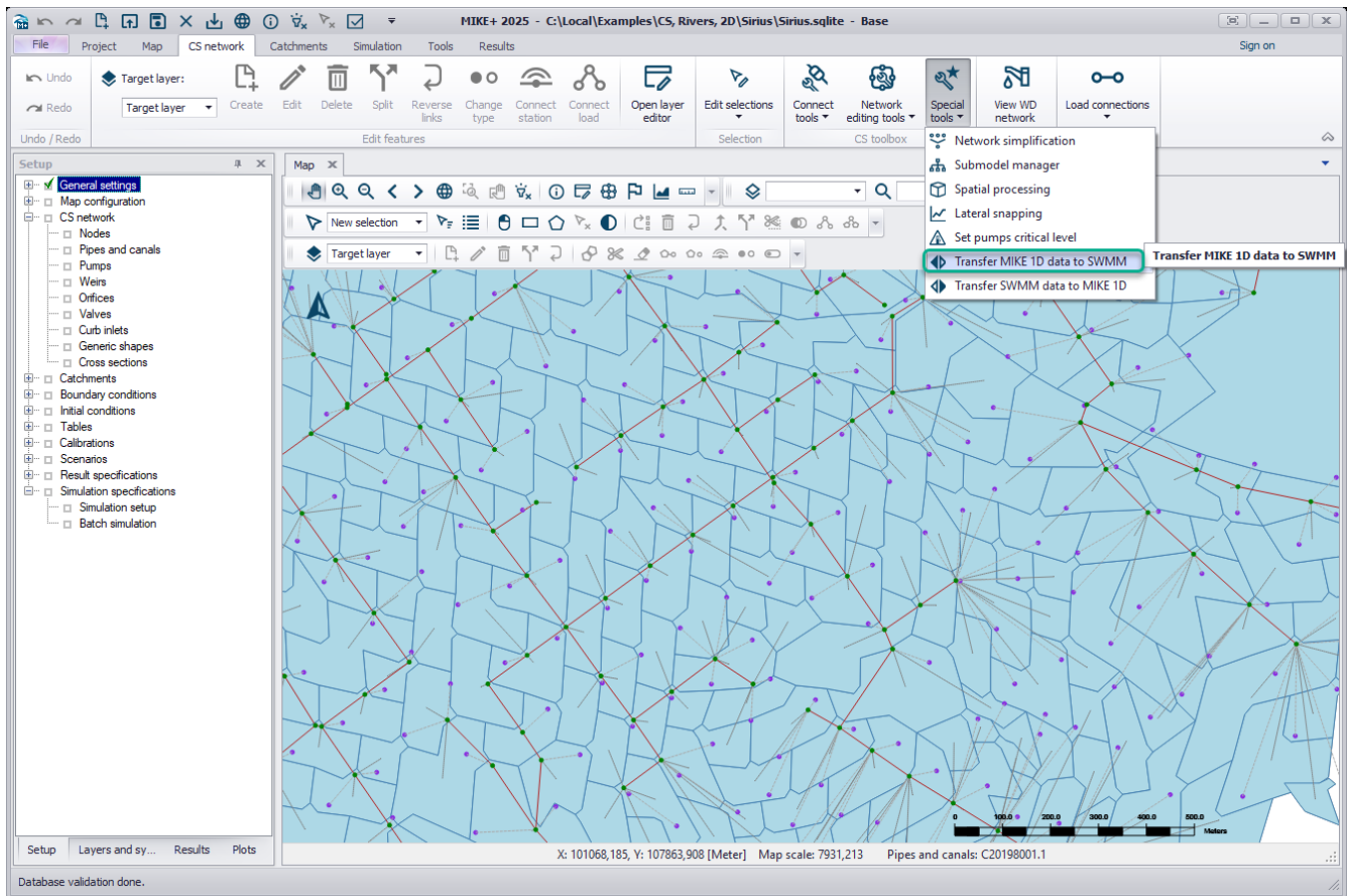


Figure 3 – Accessing the new tool 'Transfer MIKE 1D data to SWMM'

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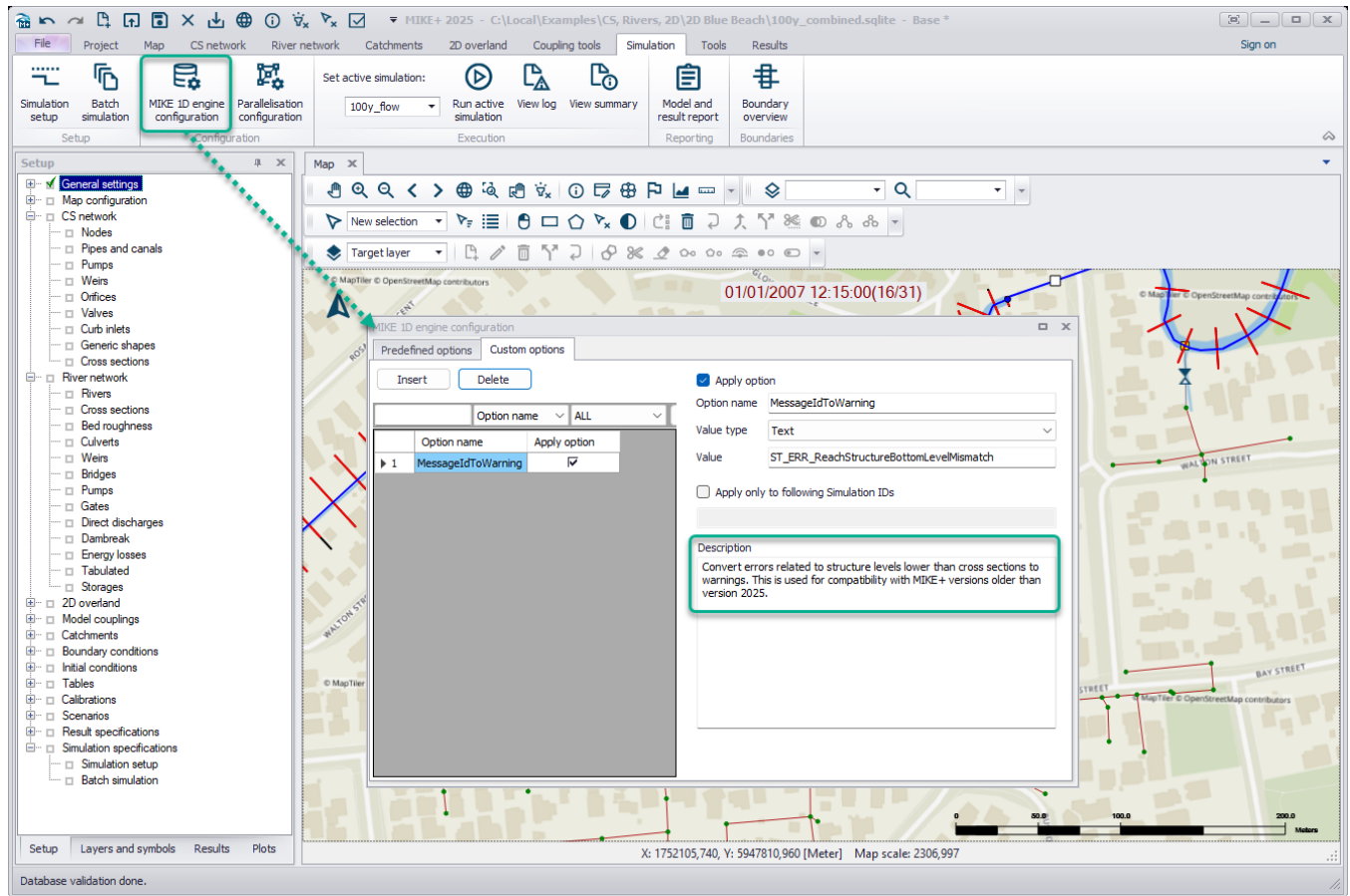


Figure 4 – The option to convert the new data validation error into a warning, which can be disabled in updated model setups

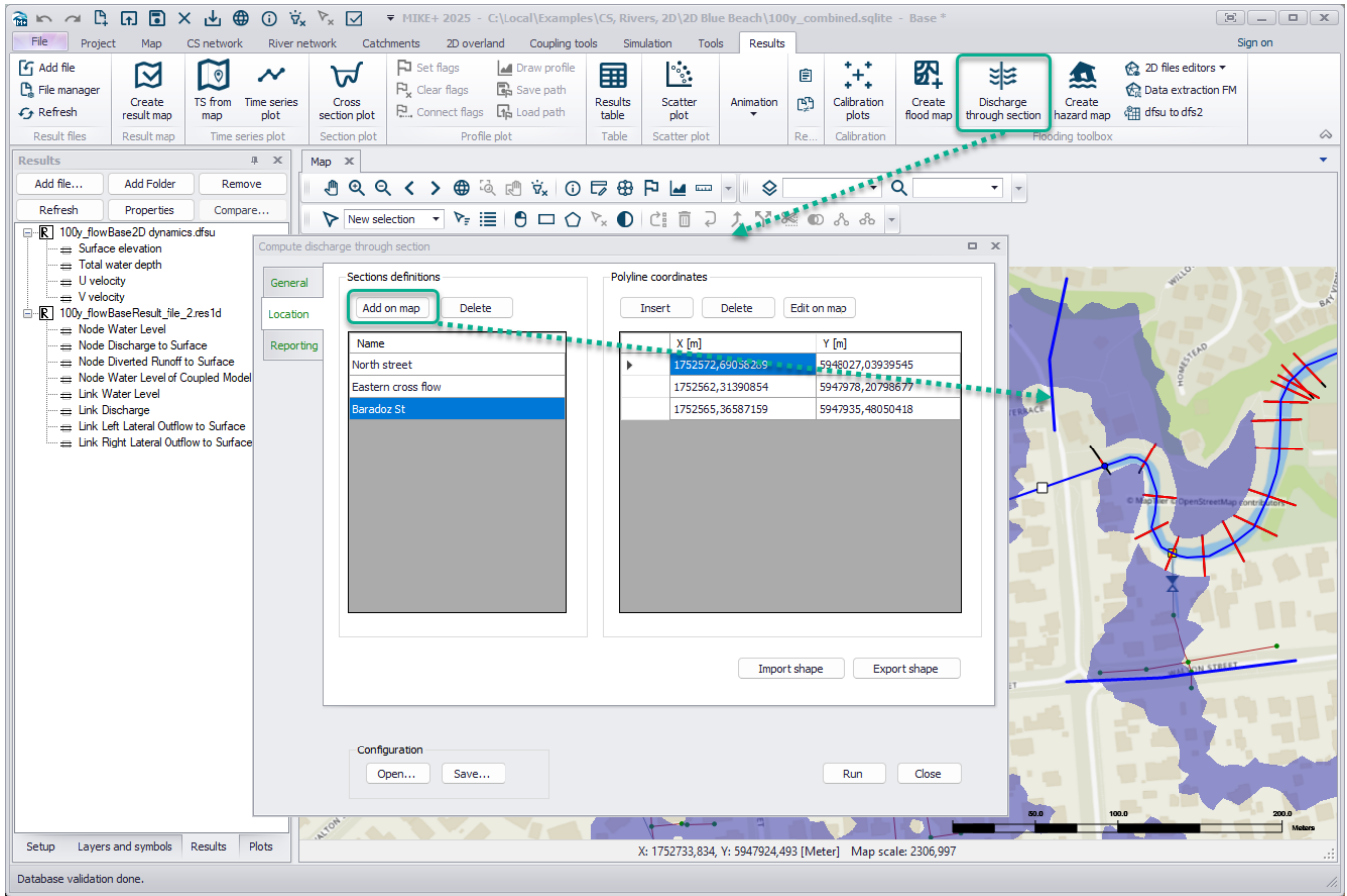


Figure 5 – Accessing the new ‘Discharge through section’ tool and adding output sections on a map

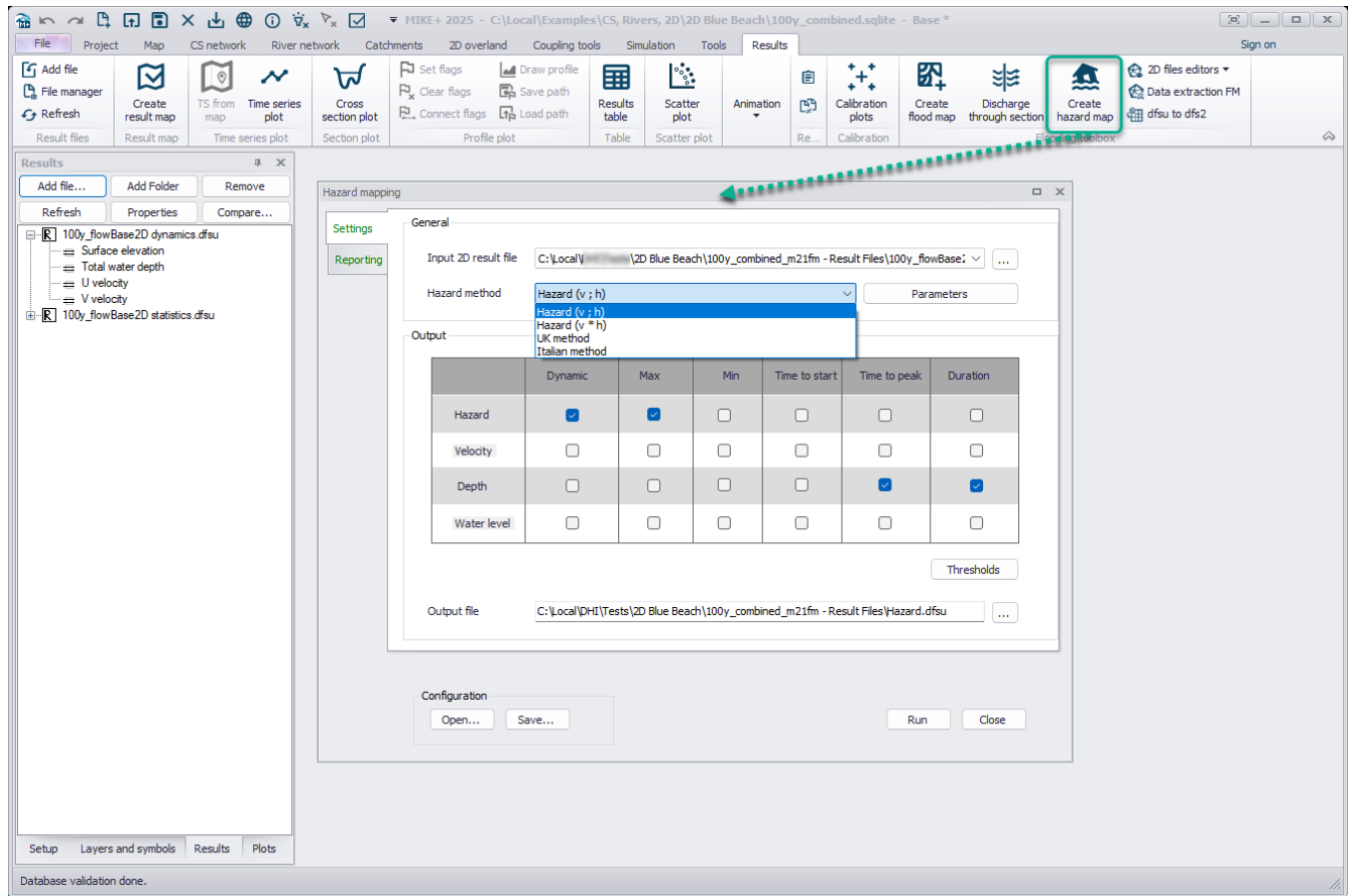


Figure 6 – Accessing the new ‘Create hazard map’ tool

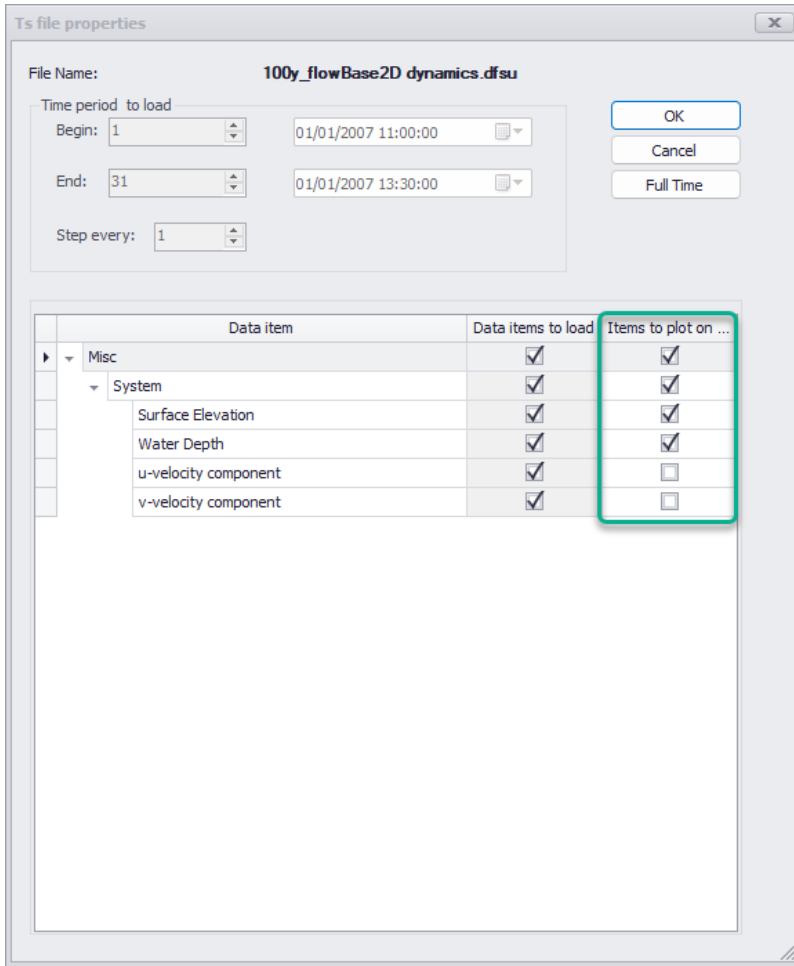


Figure 7 – Selecting 2D result items to plot on map while loading 2D overlaid results (as previously available for 1D results)

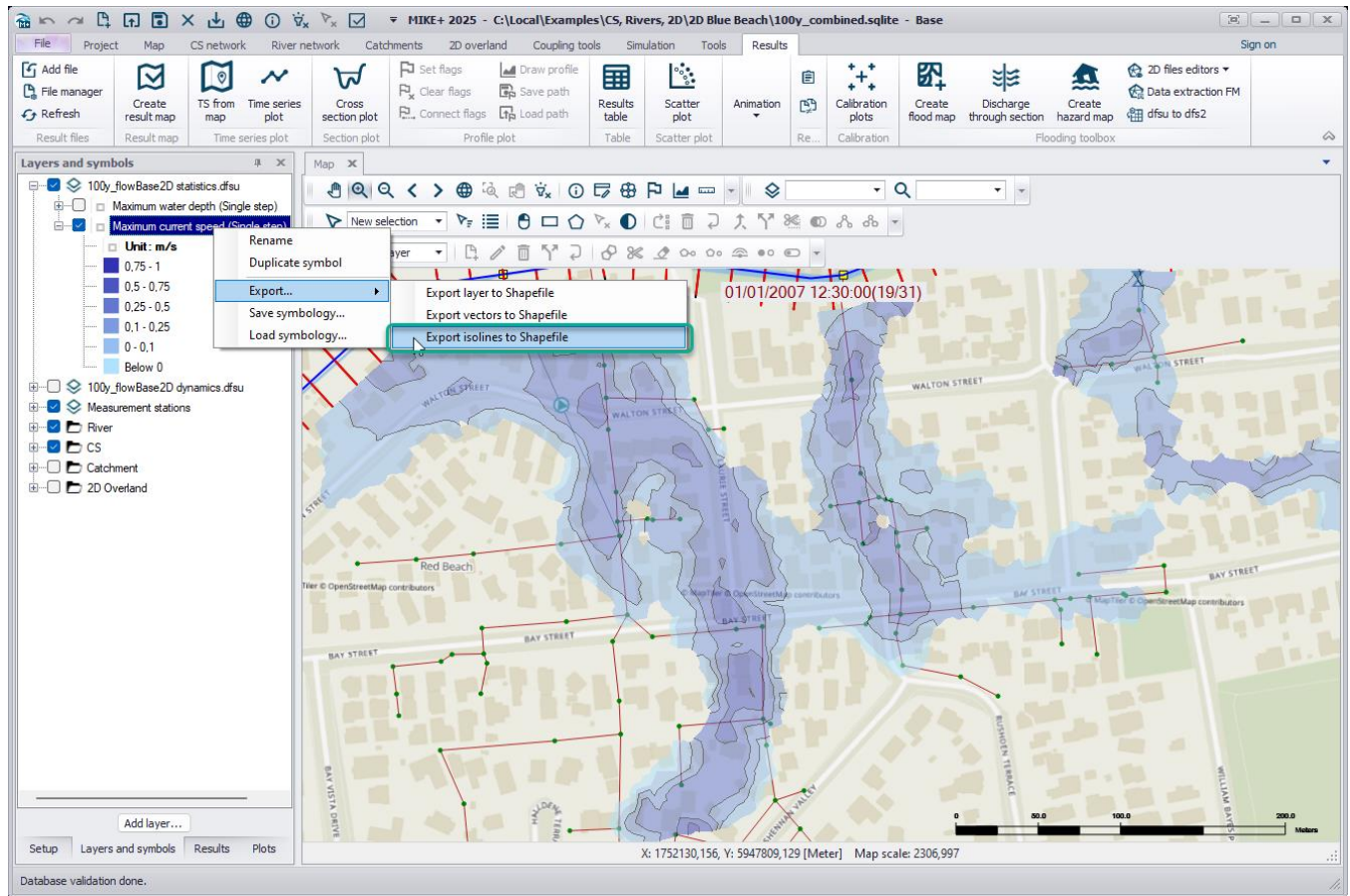


Figure 8 – Exporting isolines from 2D overland results to shapefile

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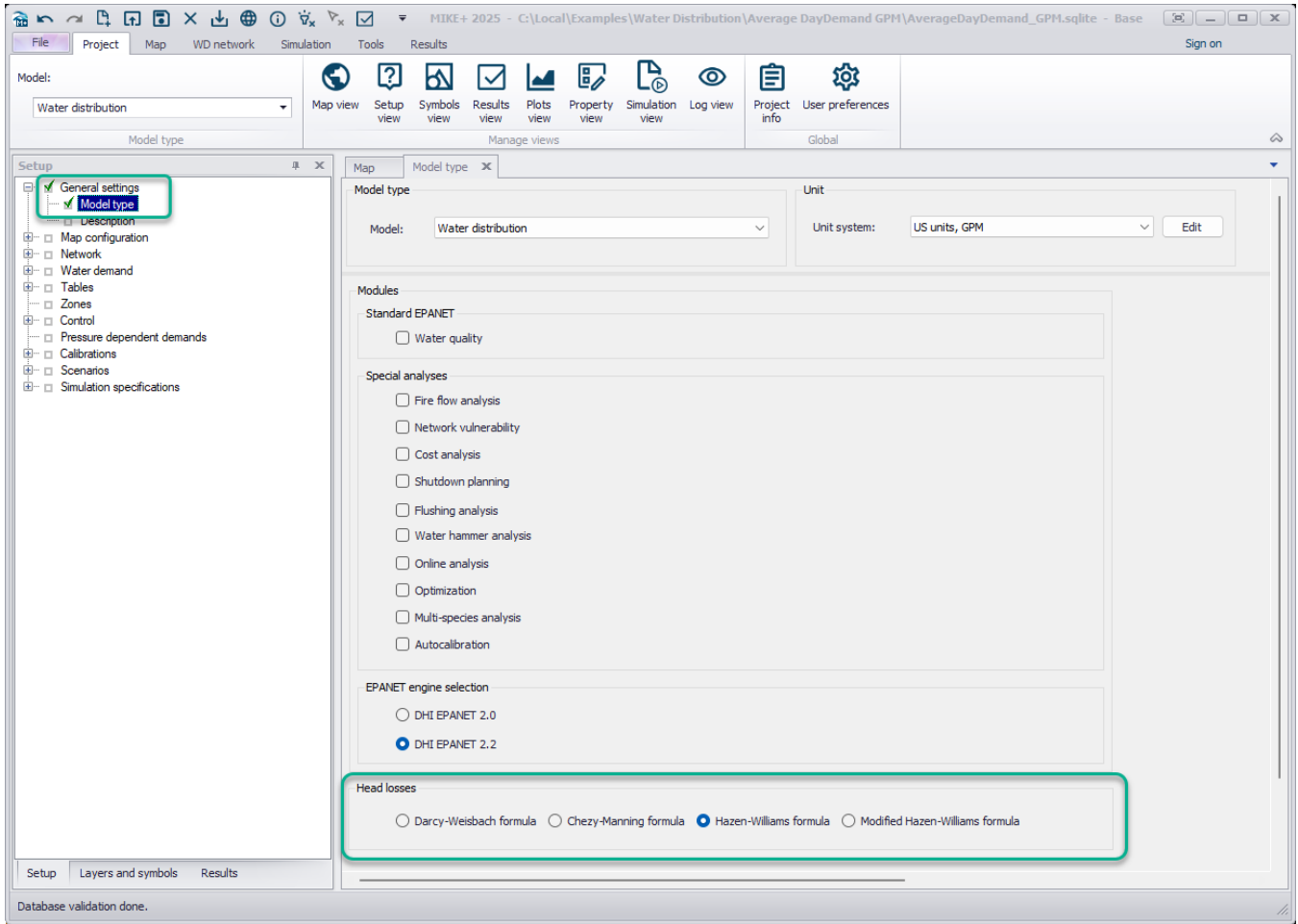


Figure 9 – New location for selecting the head loss type. 'Modified Hazen-Williams formula' added.

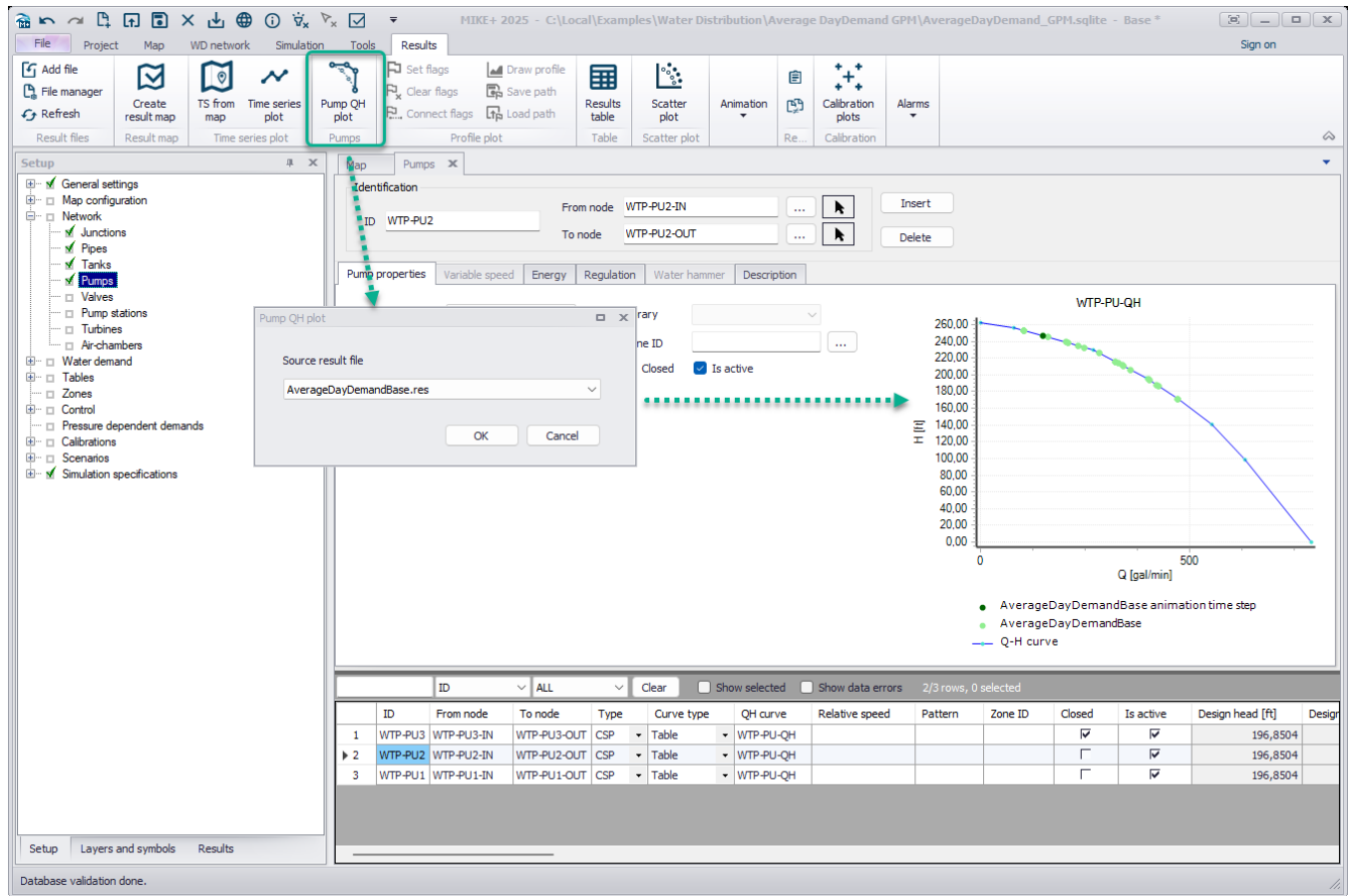


Figure 10 – Accessing 'Pump QH plot' tool to add pump results to the plot in the 'Pumps' editor