MANCHESTER 1824
The University of Manchester

WATER enhancements

For non-program-specific enhancements, see the general enhancements document.

Version 2.9-160 (08/06/2026)

- The zoom slide control in the flowsheet environment has been changed from a linear scale to an exponential scale. This gives a more intuitive response.
- The input data table reports have been enhanced to display all data and can now be copied to Excel with correct alignment.

Version 2.9-157 (05/05/2026)

- The pictograph in the flowsheet can now be resized. This can be used to highlight specific elements in the flowsheet.

Version 2.9-156 (10/06/2025)

No enhancement notes are currently listed for this version.

Version 2.9-155 (17/02/2025)

- Detailed treatment models have been added

Version 2.9-154 (21/11/2024)

No enhancement notes are currently listed for this version.

Version 2.9-152 (12/09/2024)

- The online help had some broken internal links. This has been resolved

Version 2.9-150 (20/05/2024)

No enhancement notes are currently listed for this version.

Version 2.9-148 (18/09/2023)

No enhancement notes are currently listed for this version.

Version 2.9-146

No enhancement notes are currently listed for this version.

Version 2.9-142

- New development-environment libraries have been added.
- The online help has been restructured.

Version 2.9-136

- Contaminants were not correctly initialised when new contaminants were added.

Version 2.9-125

- Water minimisation targets and effluent treatment targets have been re-implemented.

- Issues with effluent system automated design not converging have been resolved

Version 2.9-100

- An issue relating to reading feed water concentration from a data file has been resolved
- An issue relating to reading user constraints from a data file has been resolved
- An issue relating to internal mass balance calculation due to change in internal flowrate definition, has been resolved

Version 1.8

- Threshold constraints now work correctly in the optimiser
- Fixed outlet concentration specification constraints now work correctly in the optimiser
- A problem with operation loss flowrate in the optimiser has hove been resolved.

Version 1.7

- Total water network design is now implemented. Feeds, operation, regeneration and effluent treatment can now be designed simultaneously.
- A user-selectable graphic icon can now be selected for each device.
- Legacy graphical and manual functions have been removed.
- Water operation with fixed outlet concentration now functions correctly.
- Connection between source water and treatment units now implemented.
- Minimum inlet concentration for water operations can now be specified.
- Calculations now possible from the PFD environment.

Version 1.6

- A problem with units' conversion when calculation the limiting water flowrate has been resolved.
- Inlet and outlet flowrate specifications have been removed.

Version 1.5

- A problem with contaminant names becoming corrupted when a new contaminant was inserted or deleted has been resolved.
- Due to the increasing functionality of the program the main toolbar has been made user configurable.