

## Modifications and Required Changes from Previous ADH Boundary Condition Input Formats (revision 5939)

This version of ADH requires a few changes to any previously created boundary condition files.

- The name for the initial concentration value given in the hotstart file is now "icon #" rather than "ic #", where # is the constituent number.
- The friction library is now functioning to include Manning's, equivalent roughness height, submerged and unsubmerged vegetation, and ice. This library has changed the way the Manning's roughness is calculated at low depths and will produce different results when compared to an older version of ADH.
- Sand and clay constituents can be modeled.
- Shock capturing is included to help smooth the numeric solution along the wetting/drying front.
- A unique run name can be added when executing ADH so that the names in the output data files can be more descriptive. (adh.exe filename *run-name*, where *run-name* will be added to the dataset name)
- The percent completion is now based on the start time rather than time = 0.
- The screen output has been modified, so take some time to get acquainted with it.
- The concentration flux for each constituent is now included when the FLX card is used with a transport simulation. The results are stored in the \*\_conflx file.
- The rouse term is stored in the second column of the concentration file.

For more information on these cards and up-to-date information, see the ADH 2-Dimensional Shallow Water Manual and the ADH Quick Reference at <https://adh.usace.army.mil>.