

WASP Lake Jesup Model Application

October 17, 2014

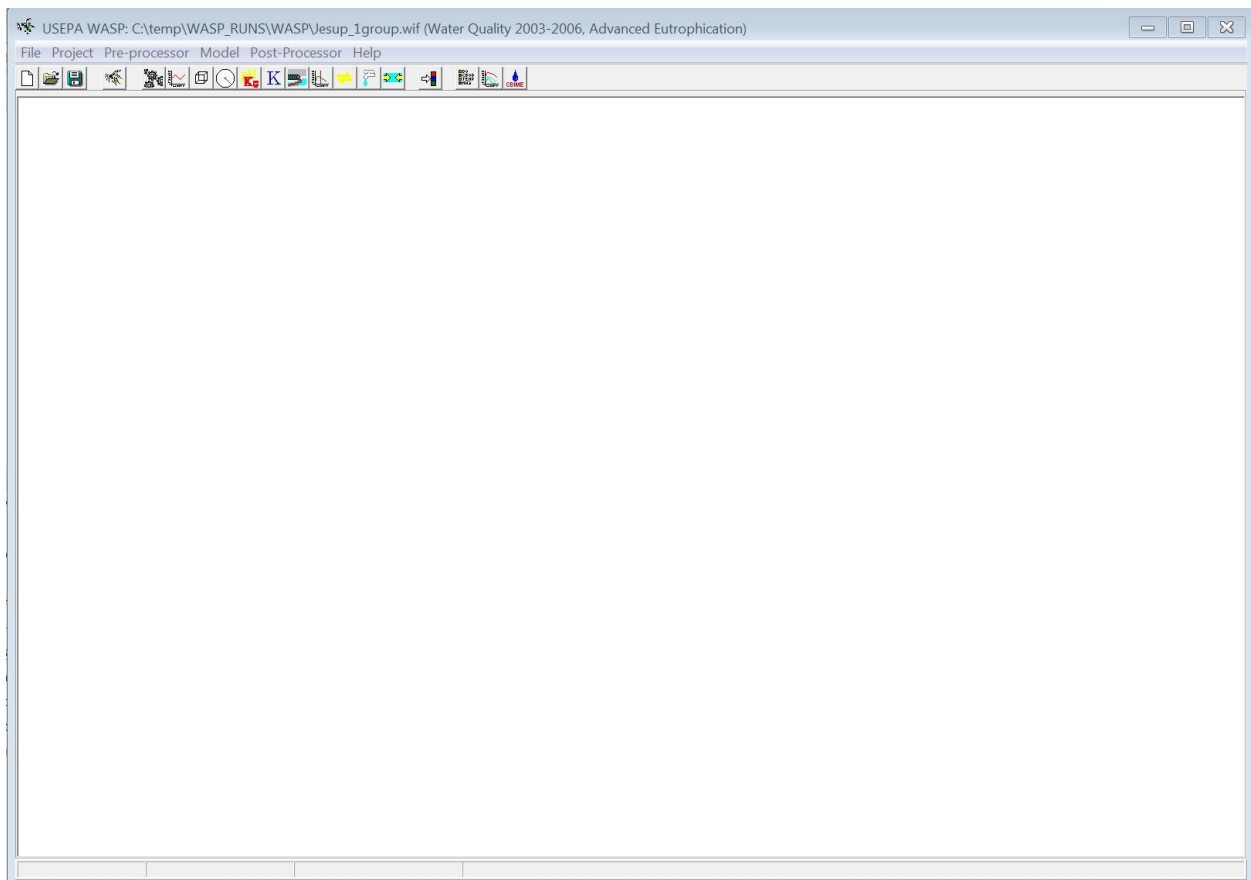
EFDC is located in the EFDC directory. EFDC can be run simply by double-clicking on the “efdc1.exe” file. The input files here are presently set up to run the four-year period from 2003 to 2006. The run time is about 12 hours.

WASP is located in the WASP directory. The model application is titled “Jesup_1group.wif”.

The EFDC-generated Hydrodynamics Linkage files are in the directories HYDRO_2003_2006, HYDRO_2003_2006, and HYDRO_2003_2006 corresponding to four-year date ranges.

To run the WASP model:

- (a) Download and install WASP from <http://www.epa.gov/athens/wwqtsc/html/wasp.html>
- (b) Double-click on “Jesup_1group.wif” to bring up the WASP GUI.



- (c) Click on the “gears” icon (5th icon from left) to open the “Parameters” dialogue box

Parameters

Description
Water Quality 2003-2006

Model Type
Advanced Eutrophica

Comments
Keep Max Time Step at 9.9 to invoke auto-stepping

Restart Option
☒ No Restart File
☐ Create Restart File

Time Range
Start Date
1/1/2003
Start Time
0:00
End Date
1/1/2007
End Time
0:00
Skip Ahead to Date
1/1/2003
Skip Ahead Time
0:00

Non Point Source File
☐ Use NPS file
 NPS File Name

Hydrodynamics
☐ Net Flows
☐ Gross Flows
☐ 1-D Network Kinematic wave
☒ Hydrodynamic Linkage
 Hydrodynamic Linkage File
 C:\temp\WASP_RUNS\HYDRO_2003_2006\J

Solution Technique
 COSMIC

Bed Volumes
☐ Static
☒ Dynamic
 Bed Compaction Time Step
 0.50

Time Step
 Fraction of max time step
 1.00
 Max time step
 9.9000
 Min time step
 0.0001

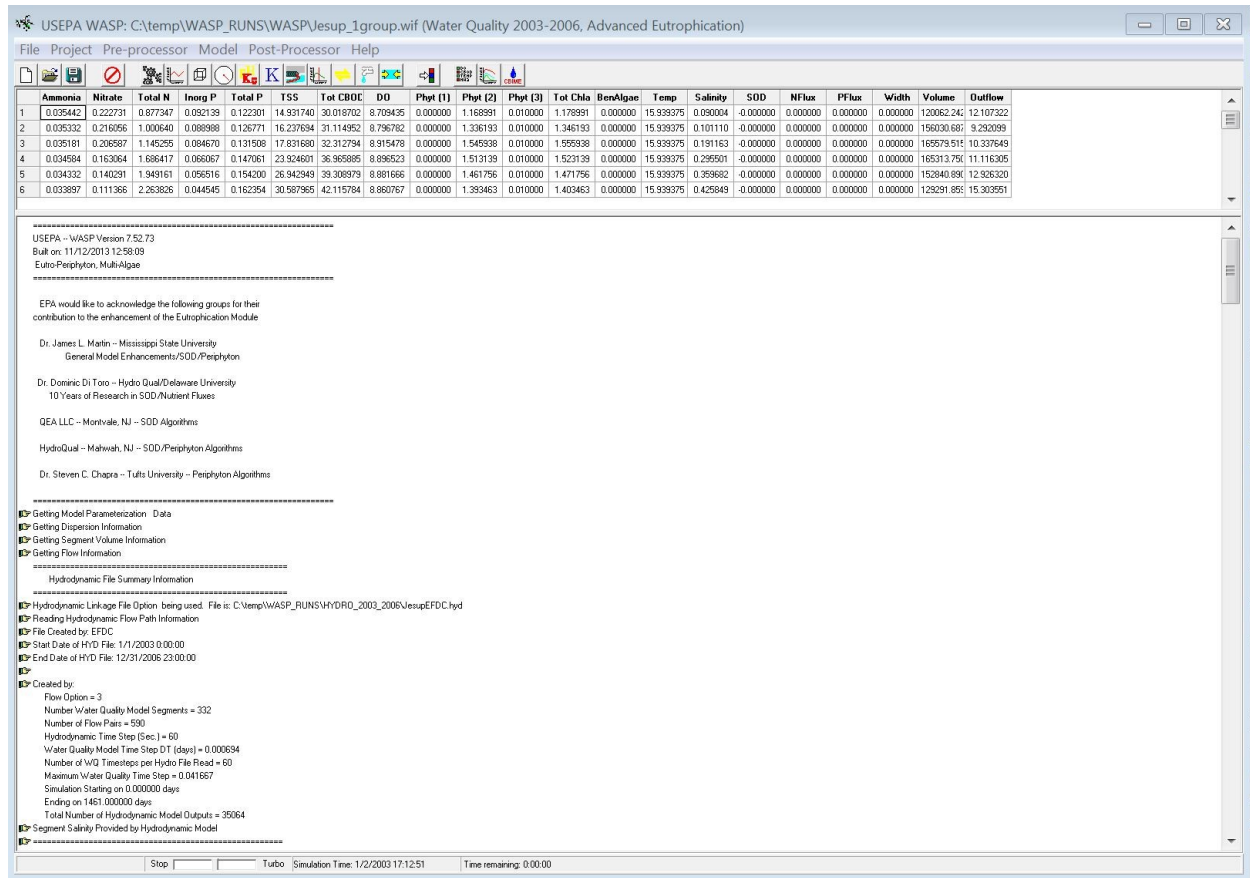
Solution Options
☐ Negative Solution Allowed

- (d) Click on the Browse button under “Hydrodynamic Linkage”
- (e) Navigate to the HYDRO_2003_2006 directory and Open the JesupEFDC.hyd file
- (f) IMPORTANT!! After clicking on OPEN this dialogue box will appear. CLICK ‘No’. DO NOT CLICK ‘YES’. (But, of course, you have already backed up the model-yes?)

Initialize Segments and Boundaries?

When setting the hydrodynamic linkage file you have the option of reading the selected hydrodynamic linkage file and initializing the segments and boundaries based on the selected file. Do you wish to reinitialize the segments and boundaries by reading the selected file?

- (g) WASP is now ready to run. You do not have to repeat steps (c) through (f) again unless you move the EFDC Hydro Linkage file.
- (h) To run WASP, simply click on the WASP icon (4th from left). You will see this display to show that the model is running.



(i) If you need help email Pete Sucsy at psucsy@sjrwm.com.