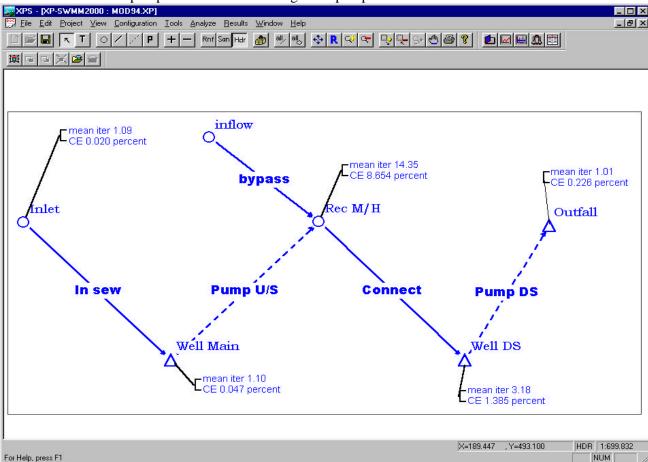
## Module 94: Real Time Control based on Flow

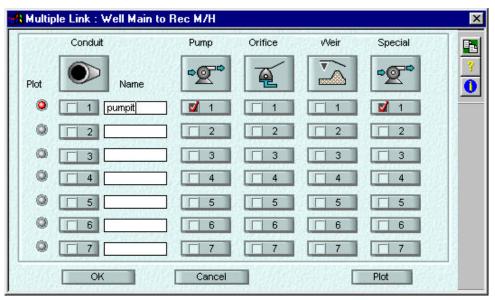
## **Synopsis**

Module 94 shows how to modify the pump flow of a conduit based on the flow in a non-adjacent conduit. In this model the pump "Pump US" is dependent not only on the downstream and upstream node water surface elevations but also a "pump rule" curve that changes the pump flow based on the conduit "Connect".

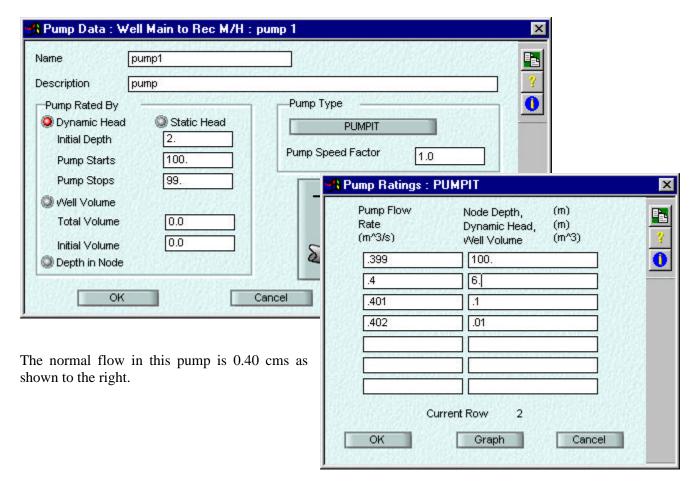
| VPS-VPS-WMM2000: MOD94.XP|



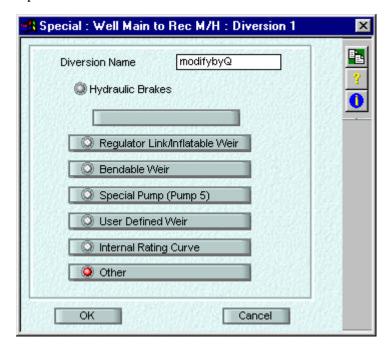
A dynamic pump is entered in the pump dialogs of the multi-conduit link. The "pump rule" is entered in the special conduit list.



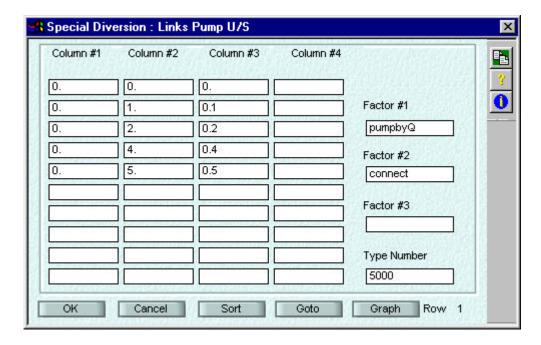
Module 94: Real Time Control based on Flow - Page 1



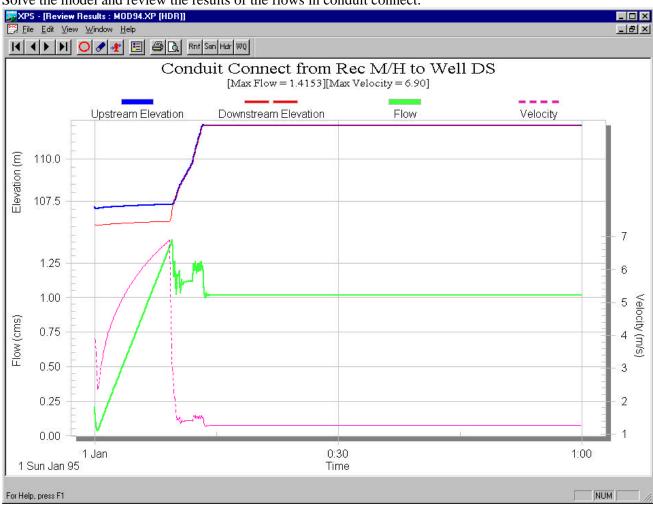
The "rule curve" for the pump rated by non-adjacent flow is shown on the next page and is entered in the Other table in the special conduit dialog. The "rule curve" is entered in column 2 and column 3 of the dialog. Factor #1 is always the name pumpbyQ; factor #2 is the name of the non-adjacent conduit; column #2 is the flow in the non-adjacent conduit; column #3 is the flow for the pump based on the flow in column #2. Please note that the program interpolates intermediate values.



Module 94: Real Time Control based on Flow – Page 2



Solve the model and review the results of the flows in conduit connect.



Review the flows in the pump. These flows are 10 percent of the flows in conduit connect.

