

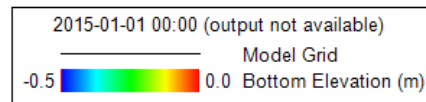
Read Me:

Model Name: DM-12_HS_Sluice_W5_Example

Objective: Use EFDC+ Explorer (EE) and EFDC+ to simulate an example of a sluice gate.

Model Grid: 90 horizontal grid cells and 5 vertical layers

EFDC+ Demonstration



273.12, 139.27

Figure 1 Model Domain of DM-12_HS_Sluice.

Folder Structure:

Model: EFDC model that can be loaded in EE to pre- and post-process.

Test_record file: This file is just a record file that informs which EFDC+ executable was used to run the model.

Modules Activated: Hydrodynamics, hydraulic structure boundary condition (sluice gate), dye.

Description: A sluice gate boundary is configured at upstream cell ($I = 19, J = 4$) and downstream cell ($I = 20, J = 4$). The purpose of this model is to show how a hydraulic structure is configured in EE and how EE can help visualize the impact of the structure using dye.

Disclaimer: The model is provided to our users to demonstrate that EFDC_Explorer and EFDC+ can be used to better understand how to build this kind of model. The model is running as expected; however, shouldn't be considered final as the model can be modified / refined to obtain improved results.

Files in Data Folder:

No data folder

Model Result:

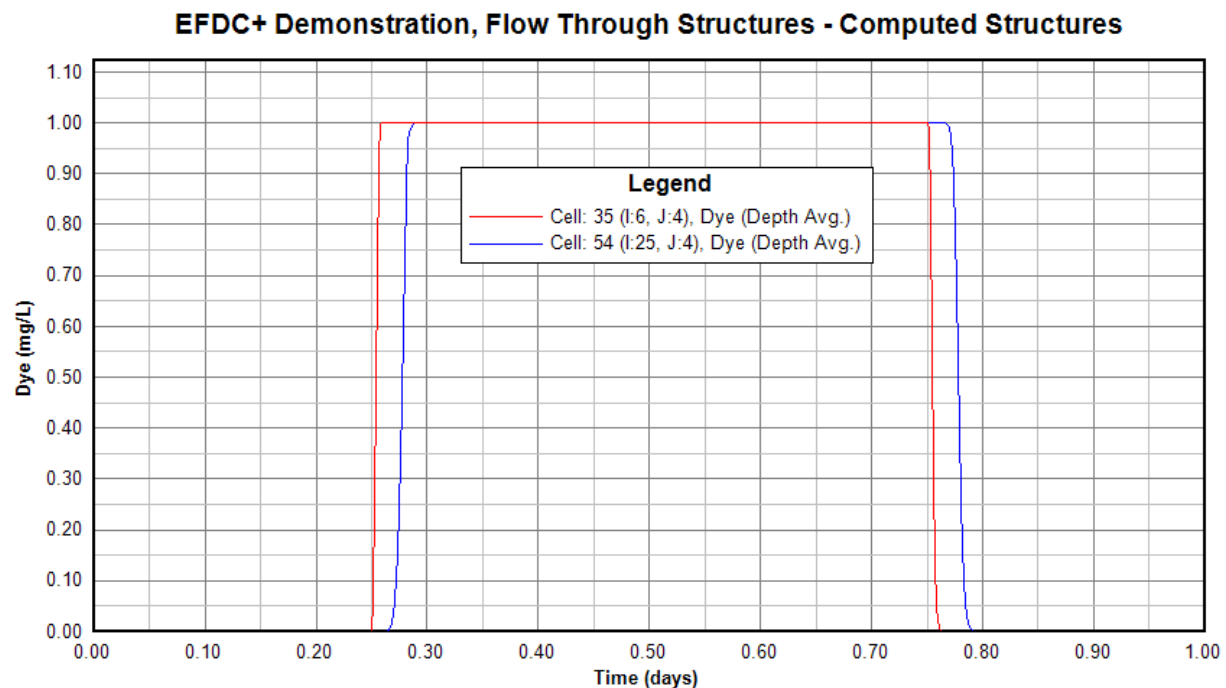


Figure 2 Dye concentration from an upstream cell and a downstream cell of the culvert.