Among the six UVM watersheds, Potash, Indian, and Munroe Brooks are impaired watersheds. Patrick Brook was excluded in the calibration process as it includes large water impoundments, such as lakes, ponds, and wetlands that are believed to strongly affect stream flow responses to rainfall events.

Each watershed was represented in P8-UCM using a simple framework as portrayed in Figure 2. Although P8-UCM is capable of simulating impoundments such as pond, reservoirs, wetlands, etc., the present analysis excluded the detailed representation of impoundments for two reasons. One is that the objective of the project is to develop hydrological targets for impaired watersheds in relation to attainment watersheds. This comparative exercise can eliminate the errors associated with the exclusion of impoundments if the selection of an attainment watershed for each impaired watershed is carefully conducted. The other reason for exclusion of impoundments is due to the lack of site-specific data.