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## Simulation of Groundwater and Surface-Water Resources and Evaluation of Water-Management Alternatives for the Chamokane Creek Basin, Stevens County, Washington: USGS Scientific Investigations Report 2012-5224

By Matthew D. Ely

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 90 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. A three-dimensional, transient numerical model of groundwater and surface-water flow was constructed for Chamokane Creek basin to better understand the groundwater-flow system and its relation to surface-water resources. The model described in this report can be used as a tool by water-management agencies and other stakeholders to quantitatively evaluate the effects of potential increases in groundwater pumping on groundwater and surface-water resources in the basin. The Chamokane Creek model was constructed using the U. S. Geological Survey (USGS) integrated model, GSFLOW. GSFLOW was developed to simulate coupled groundwater and surface-water resources. The model uses 1,000-foot grid cells that subdivide the model domain by 102 rows and 106 columns. Six hydrogeologic units in the model are represented using eight model layers. Daily precipitation and temperature were spatially distributed and subsequent groundwater recharge was computed within GSFLOW. Streamflows in Chamokane Creek and its major tributaries are simulated in the model by routing streamflow within a stream network that is coupled to the groundwater-

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