

ERCB AGSA **Objectives & Background** Provincial Groundwater Inventory Program (PGIP) MOU with Alberta Environment & Water · Evaluates fresh groundwater (above Base of GW Protection) · Evaluate quantity, quality, and thresholds between sustainable/ unsustainable use of groundwater resources through use of numerical flow models Edmonton-Calgary Corridor (ECC) 1st study area ~50 000 km² Dense population

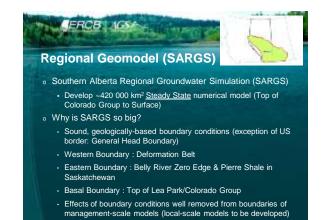


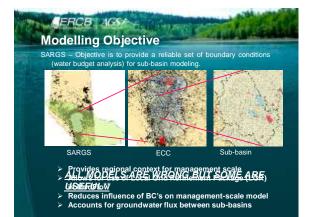
- Rapid growth Based on 10 drainage basins
- Data-rich subsurface (both water well & oil and gas data)

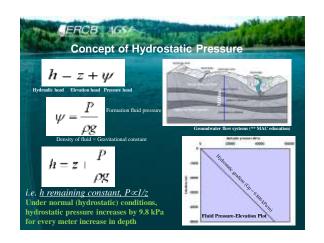


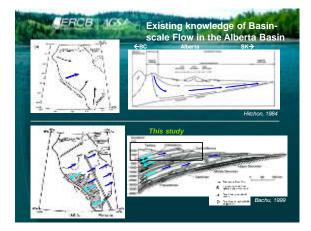
Outline / Numerical Model Workflow

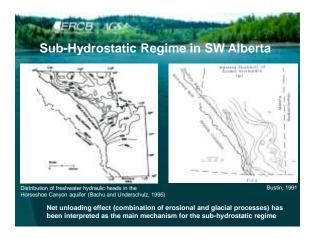
- Establish the PURPOSE of the model.
- Develop a CONCEPTUAL MODEL of the system. Gather data
- * GOVERNING EQUATION and COMPUTER CODE
- *** DESIGN**
- ***** CALIBRATION
 - * Conduct a CALIBRATION SENSITIVITY ANALYSIS
 - * Determine how the model responds to uncertainty in parameter values
- ♦ VALIDATE the model
- * PRESENT RESULTS of model and model design
- *** POSTAUDIT**

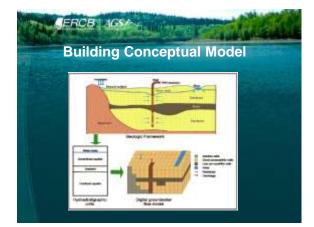












Stratigraphy of the Western Canada Sedimentary Basi (Alberta and SE Saskatchewan)				
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