2030 BUILDOUT WITHOUT ADDITIONAL RURAL DEVELOPMENT DENSITY

- This scenario assumes continuation of 2.5 to 10 acre lot development and land in farm production
- Model includes surrounding cities population and land use at 2030
- Results in a maximum drawdown of 38 feet in the Prairie du Chien Aquifer
- Results in a 42% reduction in the Credit River Base Flow
- Results in a 19% reduction in the Vermillion River Base Flow
- Results in a 4.3 foot drawdown in the Savage Fen
- Existing large lots (1 per 10 acre) would not significantly disrupt existing agricultural drainage systems

ULTIMATE BUILDOUT WITH ADDITIONAL RURAL DEVELOPMENT DENSITY

- This scenario assumes 2.5 acre lots and the DAP area is fully developed (estimated pop. 29,250)
- Model includes surrounding cities population and land use at 2030
- Results in a maximum drawdown of 48 feet in the Prairie du Chien Aquifer
- Results in a 55% reduction in the Credit River Base Flow
- Results in a 29% reduction in the Vermillion River Base Flow
- Results in a 6.6 foot drawdown in the Savage Fen

ULTIMATE BUILDOUT WITH URBAN DEVELOPMENT DENSITY

- This scenario assumes 80% residential (3 units per acre) and 20% commercial/industrial land use (estimated pop. 203,184)
- Results in a maximum drawdown of 84 feet in the Prairie du Chien Aquifer
- Results in a 95% reduction in the Credit River Base Flow
- Results in a 38% reduction in the Vermillion River Base Flow
- Results in a 9.2 foot drawdown in the Savage Fen
- This scenario created the greatest drawdown of all the scenarios, due to increased population and reduced recharge.
- In this scenario homes are connected to municipal sewer and the additional recharge from septic systems is lost