

Little Lehigh Creek Watershed Monitoring and Drought Contingency Planning

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Objectives

- Establish local drought triggers
 - Groundwater & surface water
 - Long & short term timeframes
- Characterize relationship between creek flow and well withdrawal
 - Quantify surface-ground water interactions
 - Detailed water budget

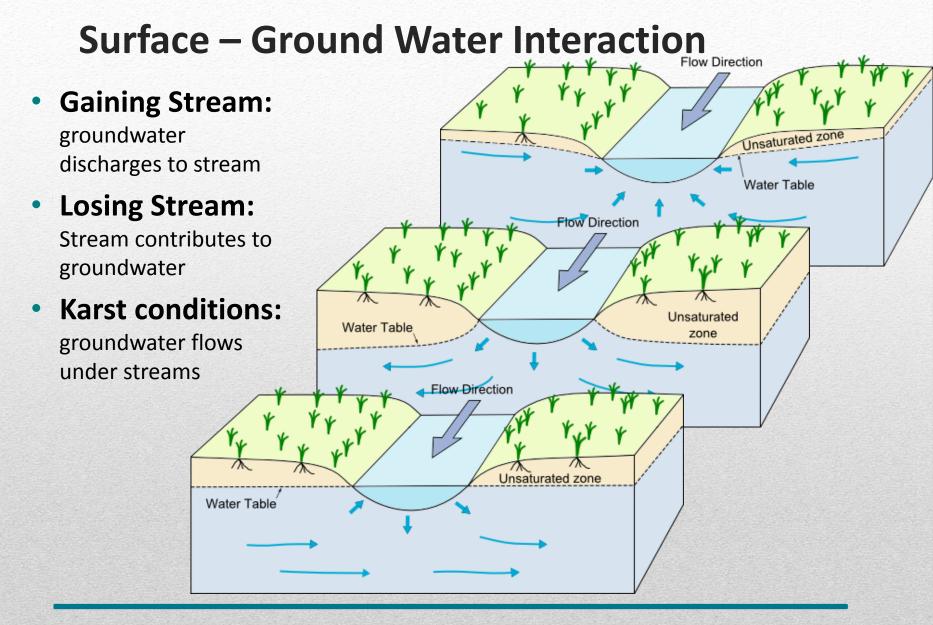


Drought Triggers

- Quarry level
 - Groundwater
 - Time lag
- Little Lehigh Creek intake pass-by flow
 - Surface water
 - Quick response

- Schantz Spring flow
 - Groundwater
 - Unknown age
- Production Wells
 - Groundwater
 - System yield / water levels







Watershed Monitoring Plan Elements

- Project objectives
- Monitoring station locations
- Stream flow monitoring station construction
- Monitoring frequency
- Hyporheic zone mapping
- Hydrologic water budget analysis methodology





