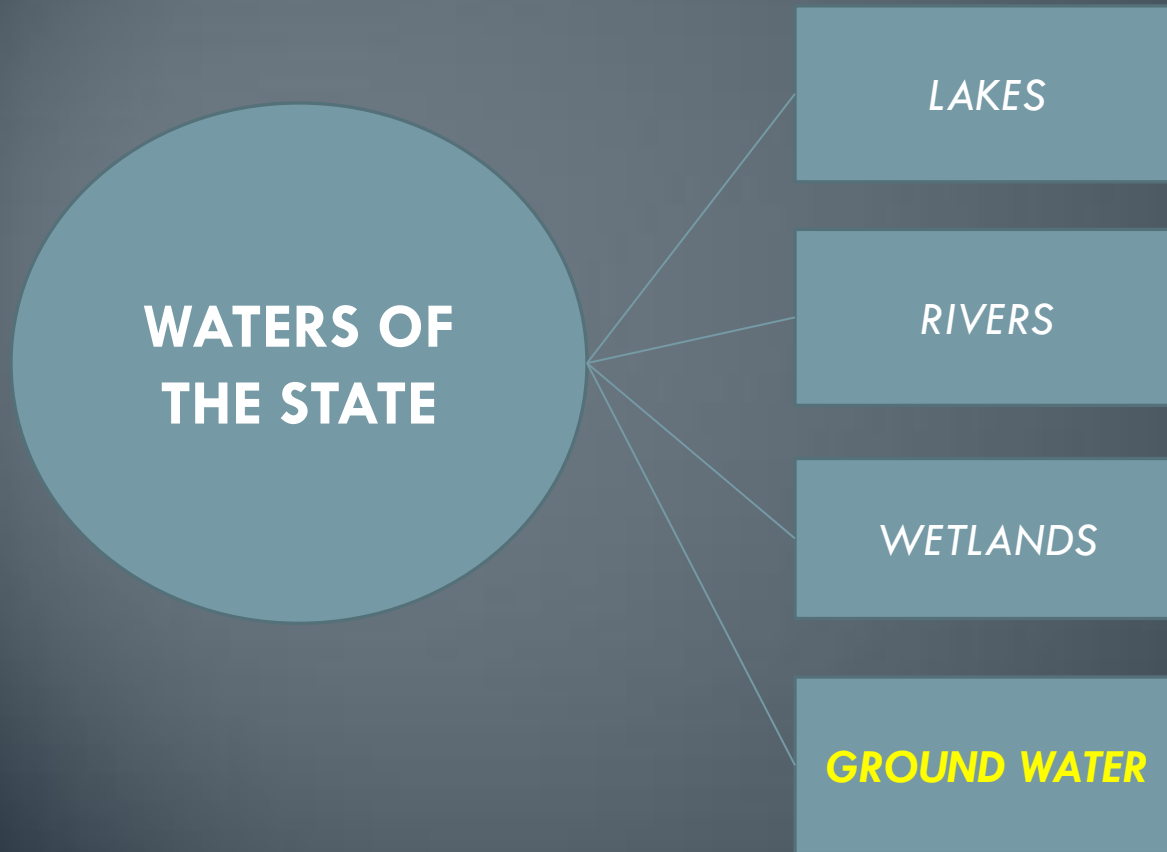


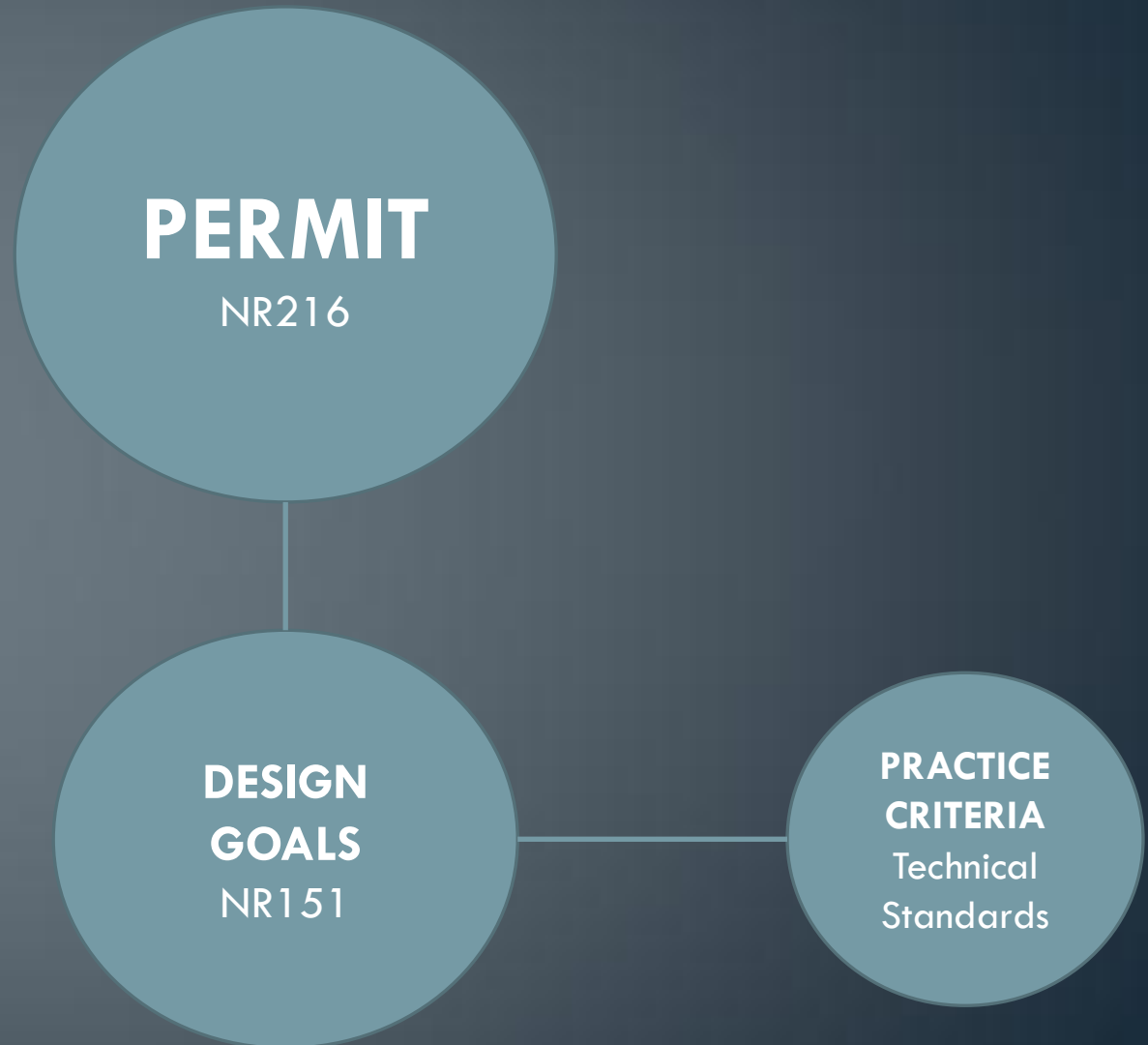
Karst: DNR Storm Water Regulations

Pete Wood, P.E.
DNR Sturtevant
262-884-2360
Peter.Wood@Wisconsin.gov

DNR Regulatory Goal: Minimize the discharge of pollutants carried by storm water runoff to waters of the state



DNR Storm Water Quality Regulations for New Development



NR 151.121 Post-Construction Requirements for New Development

- Pollutant Control
 - 80% TSS removal on average annual basis
- Peak Discharge Rate Control
 - Maintain pre-development discharge rates for 1-yr and 2-yr events for streambank erosion control
- Infiltration
 - Infiltrate 60% to 90% of pre-development infiltration volume on average annual basis for sites with suitable soil conditions
- Protective Area
 - 10 to 75 foot filter strip for impervious surfaces draining directly to surface waters or wetlands

Storm Water - Groundwater Protection Regulations

- NR 216.47 – Infiltration Systems
 - Determine location of seasonal high groundwater or top of bedrock
 - Provide horizontal separation distance from community and private wells
- NR 151.124 – Infiltration Practices
 - At least 1,000 feet upgradient or 100 feet downgradient from direct conduit to groundwater
 - Minimize level of pollutants infiltrating to groundwater
 - Vertical separation distance to seasonal high groundwater or top of bedrock with filtering layer (up to 5-ft depending on source area)
 - Pretreatment for parking lots and roads
- Post-Construction Technical Standards
 - Liners for wet ponds, biofilters and permeable pavement with no infiltration
 - Pretreatment for practices with infiltration

East-West Tributary Intermittent – Fractured Limestone

Lined Biofilters

Pebble Creek Perennial – Cold Water





Questions