

The background of the slide features a light blue and white pattern. The top half shows a field of tall, thin stalks, possibly reeds or grasses, with a soft, painterly texture. The bottom half shows a close-up of water ripples, with concentric circles and fine lines creating a textured, shimmering effect.

***Water Resources Element:***  
***Carroll County Jurisdictions***  
***Cooperative Effort***

November 12, 2009

## *HB 1141*

### *“Land Use - Local Government Planning”*

*Water Resources Element of  
Comprehensive Plan Required:*

To ensure that future county and municipal comprehensive plans reflect the opportunities and limitations presented by local and regional water resources

# *Components of the WRE*

- Water supply
  - Wastewater
  - Nonpoint Sources (NPS)
- } *Water quality*

*The WRE addresses the relationship between planned growth and water resources.*

# *Examples of Factors to Consider*

- Water Supply & Wastewater
  - Current & projected capacities
  - Projected demand
  - Limitations
  - Additional water supply & wastewater capacity options
- Impaired Waters
- TMDLs: Local & Bay
- Tier II Waters
- Existing and Projected Nutrient Loads
- *Chesapeake Bay Tributary Strategy Statewide Implementation Plan*
- Nutrient Caps on Wastewater
- Current & Projected Septics

# *Process*

- Collaborative partnership
  - Carroll County
  - Municipalities in county
  - State agencies – MDE, MDP, DNR
- WRCC – public forum for discussion and direction (*advertised & open to public*)
- Technical, supporting assessments – combination of in-house & consultant

# *Technical Assessments*

- Water Supply & Wastewater Capacity Management Plan worksheets (County & municipal staff)
- Review of 1988 RE Wright Study (consultant)
- Water demands & availability (consultant)
- Alternatives evaluation (consultant)
- Wastewater limitations (consultant)
- Alternatives evaluation (consultant)
- Nonpoint source loading analysis (County staff)

# *Assessments & Plan Based On...*

- Existing, adopted plans (no proposals)
- MDE 8-digit watershed
- Municipal systems in Designated Growth Areas (DGAs)
- Projected demand for:
  - Existing planned water & sewer service areas
  - DGAs

## *Water Supply: Bottom Line*

The county has ample water supplies to accommodate future water demand. Any water supply limitations would be an issue of obtaining the appropriation from MDE and providing the appropriate infrastructure.

## *Wastewater: Bottom Line*

Wastewater will present more challenges for the municipal systems in Carroll County.

Several systems will need to consider various options to address nutrient caps, increase in design capacity, and/or a balance with projected demand.

## *Nonpoint Sources: Bottom Line*

Changes in nitrogen and phosphorus loads will be negligible as full buildout of zoning or land use designations are realized, as modeled. However, decreases will be needed to reduce loads below the level expected with full implementation of Tributary Strategy BMPs.

# *Current Status*

- Malcolm Pirnie completed assessments
- WRCC completed initial draft
- WRCC members currently reviewing with planning commissions & requesting to release for 60-Day Review by Nov 30

# *Next Steps through Adoption*

• WRCC members present to PCs & Councils =	Nov 09
• Planning Commissions review & <i>release</i> for State/public comment =	Nov 09
• 60-Day Review period =	Dec-Feb 10
• Planning Commissions public hearings =	Feb/ early Mar 10
• Forward to Elected Officials to consider for adoption =	Mar 10
• Adoption required by State	by Apr 1 10