

Maryland Department of the Environment

Tier II Waters Protection and EPA's New Vision

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Maryland Department of the Environment





Antidegradation Regulations (COMAR 26.08.02.04-1)

Requires:

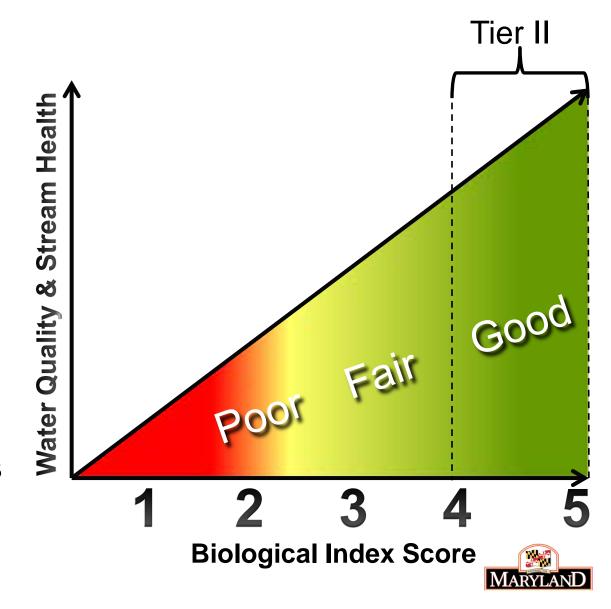
- That Tier II water quality be significantly better than the minimum standard
- An antidegradation review for discharge(s) and Water and Sewer Plan amendment approvals
- That Nontidal Wetlands and Waterways permits meet the standards of the regulation
- Defines Assimilative capacity, e.g. when Tier II conditions are not maintained
- Lays out the social and economic justification procedure used to determine when unavoidable impacts are allowed.

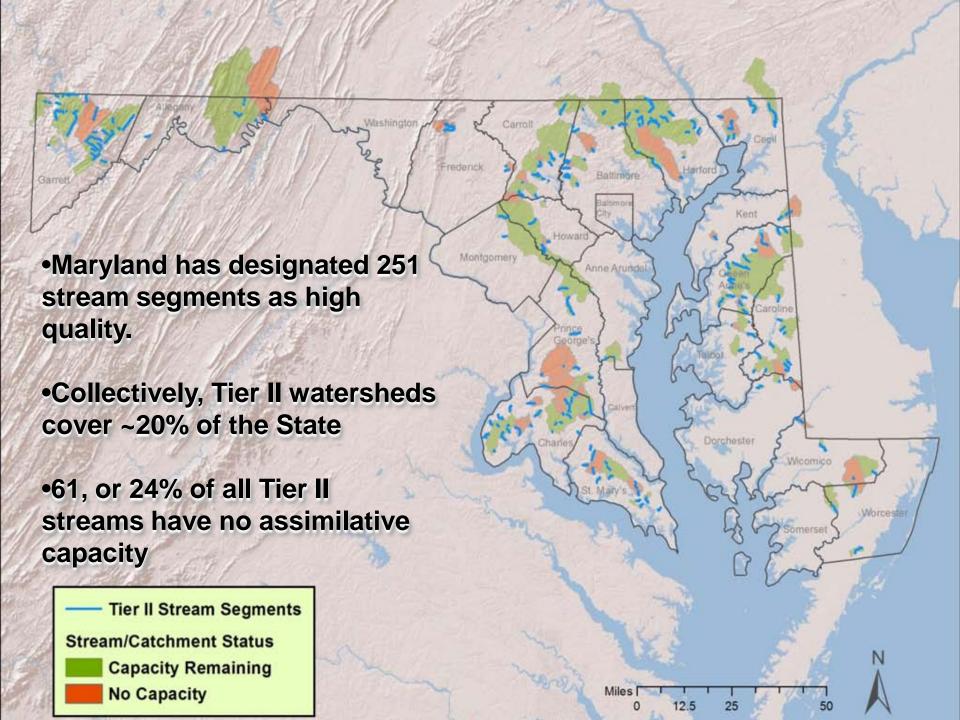




Tier II Waters Designation

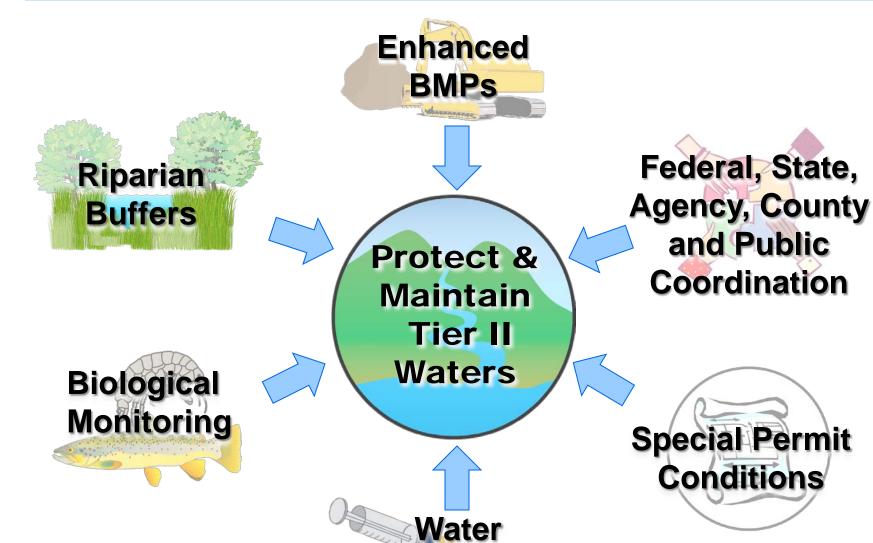
- Streams are sampled using the Maryland Biological Stream Survey (MBSS)
- MBSS assigns scores for stream benthic and fish assemblages
- To be designated
 Tier II, both scores
 must be <u>></u>4.00







Current Protections



Quality

Monitoring



Tier II & TMDL Watersheds

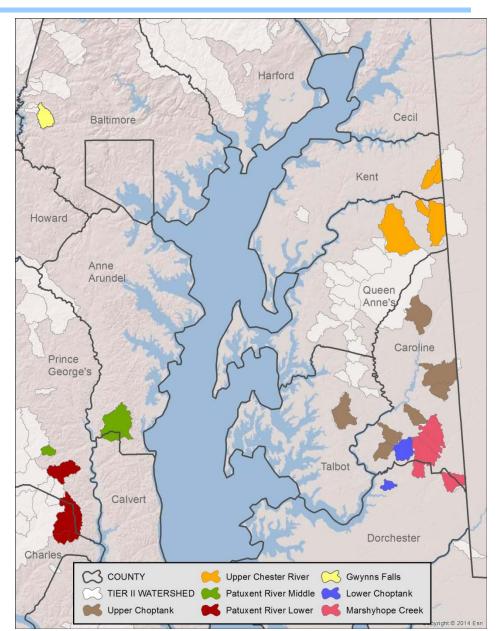
- Identify Tier II watersheds within the watersheds targeted for TMDL development
- Outside of targeted TMDL watersheds, focus on Tier II watersheds within Phase I MS4 Jurisdictions





Tier II & Targeted TMDL Watersheds

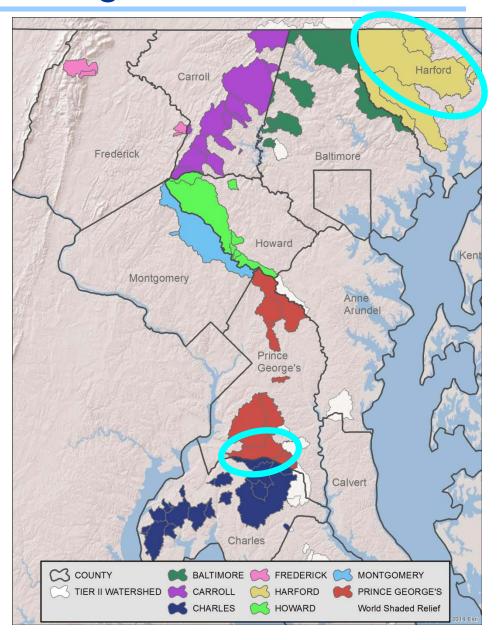
- Identified 26 Tier II watersheds in 7 targeted TMDL watersheds
- Information will be used to facilitate outreach to Counties to direct some implementation activities into priority Tier II-TMDL watersheds





Tier II & Non-TMDL Targeted Watersheds

- Identified 70 Tier II watersheds in 8 Phase I MS4 Jurisdictions
- From among the 70, MDE will select a few watersheds where pilot protection programs may be effective, based on receptive County and stakeholder participation, and existing programs



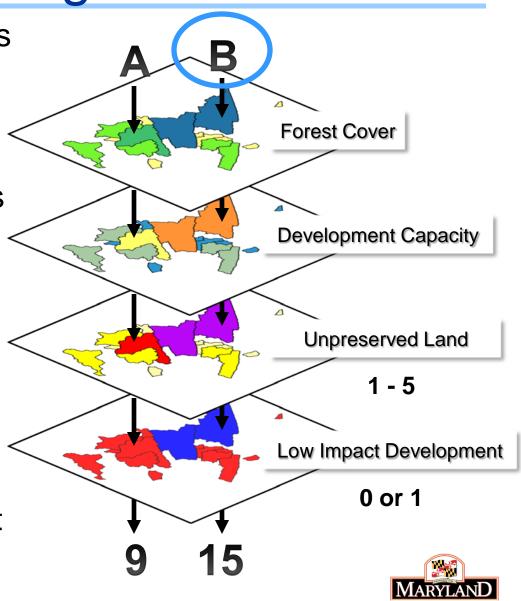
Tier II Monitoring Priorities

 Identify those Tier II waters with capacity, but are facing the most pressure from land use changes.

 A sum analysis model was used to rank watershed attributes.

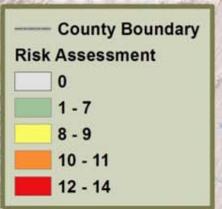
 The model 'overlays' each layer, and then totals the scores of the watershed across the different attribute layers.

 The areas with the highest scores are targeted for monitoring.



Tier II Monitoring Priorities

- The risk sum analysis identified 44 'at risk' priority watersheds
- MDE has the capacity to sample approximately 20 MBSS stations/year







Potential Future Actions

 Revise the regulation to ensure a more consistent implementation process across the State

 Revise Tier II Implementation guidance documentation in accordance with the updated regulations



Summary

- MDE already consistently applies a number of practices designed to protect high quality waters
- New Vision & Tier II focus:
 - Target some TMDL implementation into Tier II watersheds
 - 2. Pilot outreach protection programs within Phase I MS4 jurisdictions
- Priority monitoring of Tier II 'at risk' watersheds
- Clarification of existing regulations and technical guidance will increase the effectiveness of Tier II protections

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