

Maryland's NPDES MS4 Permits

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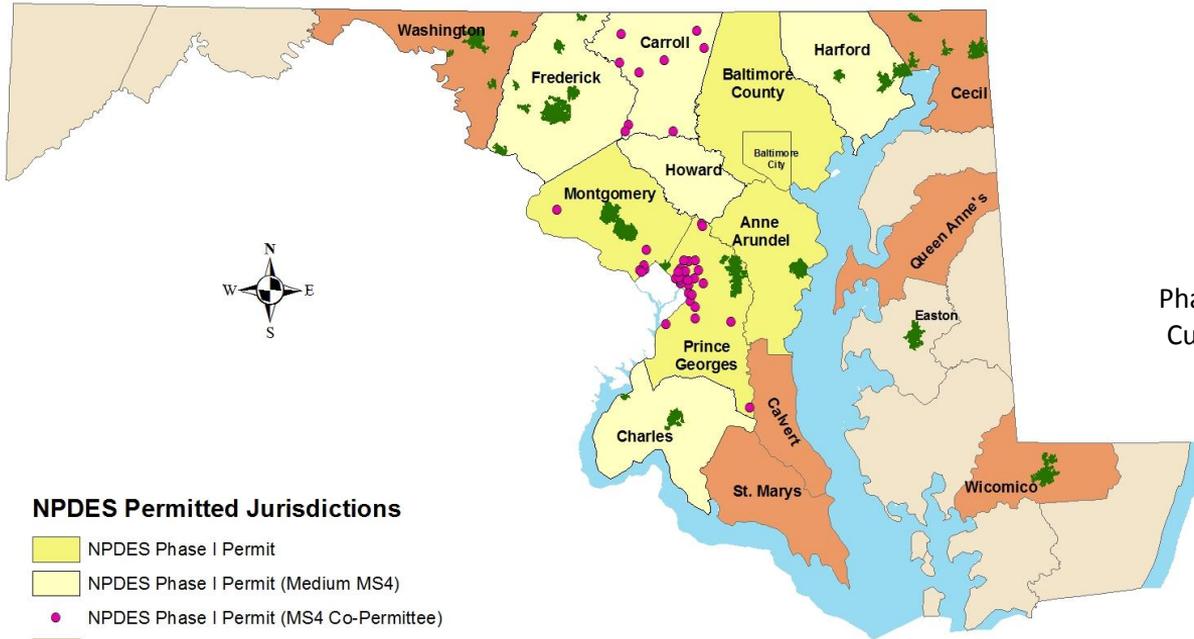
Maryland Department of the Environment

2018 MACO Annual Summer Conference



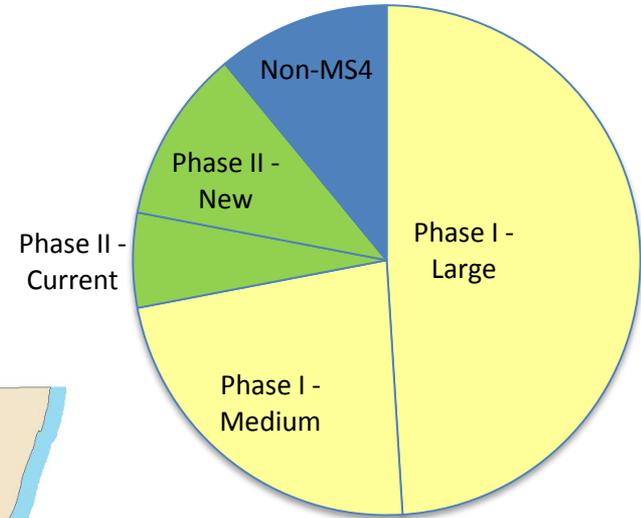
Maryland
Department of
the Environment

MS4 Permits Cover the Majority of MD's Urban Runoff



NPDES Permitted Jurisdictions

- NPDES Phase I Permit
- NPDES Phase I Permit (Medium MS4)
- NPDES Phase I Permit (MS4 Co-Permittee)
- NPDES Phase II General Permit (County)
- NPDES Phase II General Permit (Municipalities)

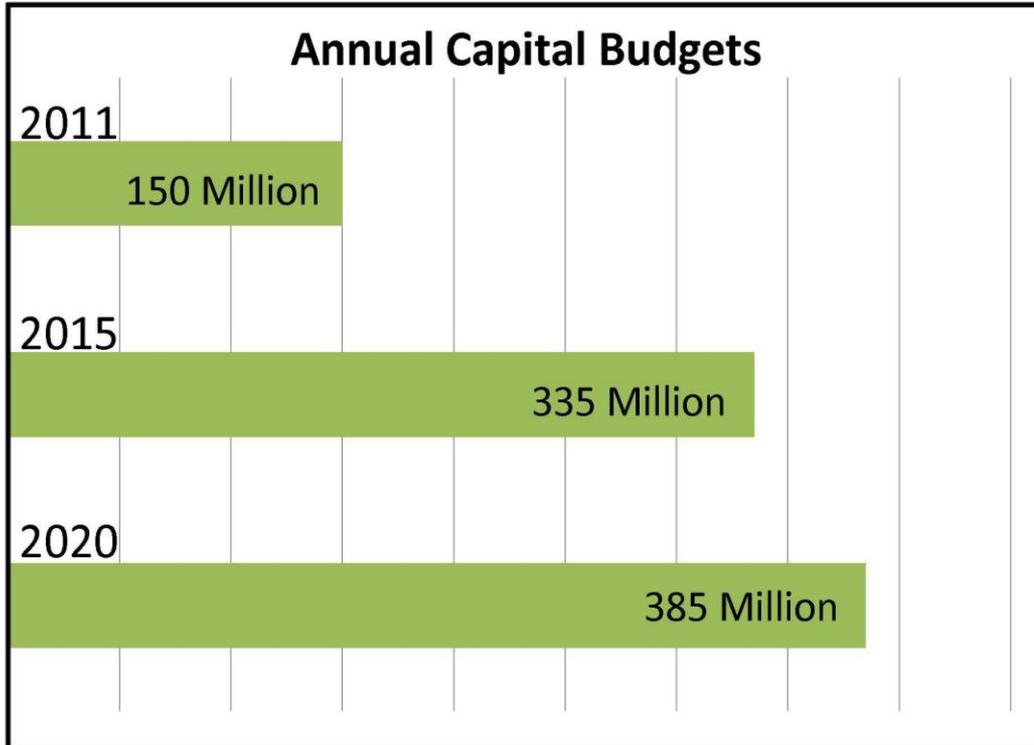


Impervious Surface Restoration



- Current Phase I Permit requires restoration of 20% of existing unmanaged impervious area. (36,882 + 4,439 = 41,321 impervious acres)
- The new Phase II permit requires a similar restoration effort. (9,000 impervious acres)

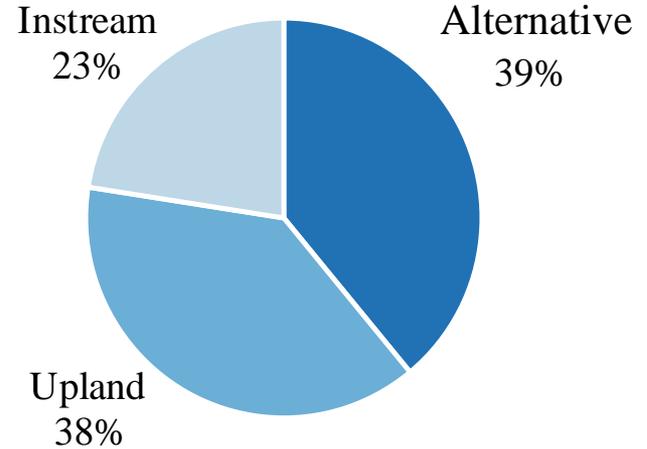
Restoration Project Investment Continues to Increase



About \$1.3 Billion in investments from 10 counties in current permit term.

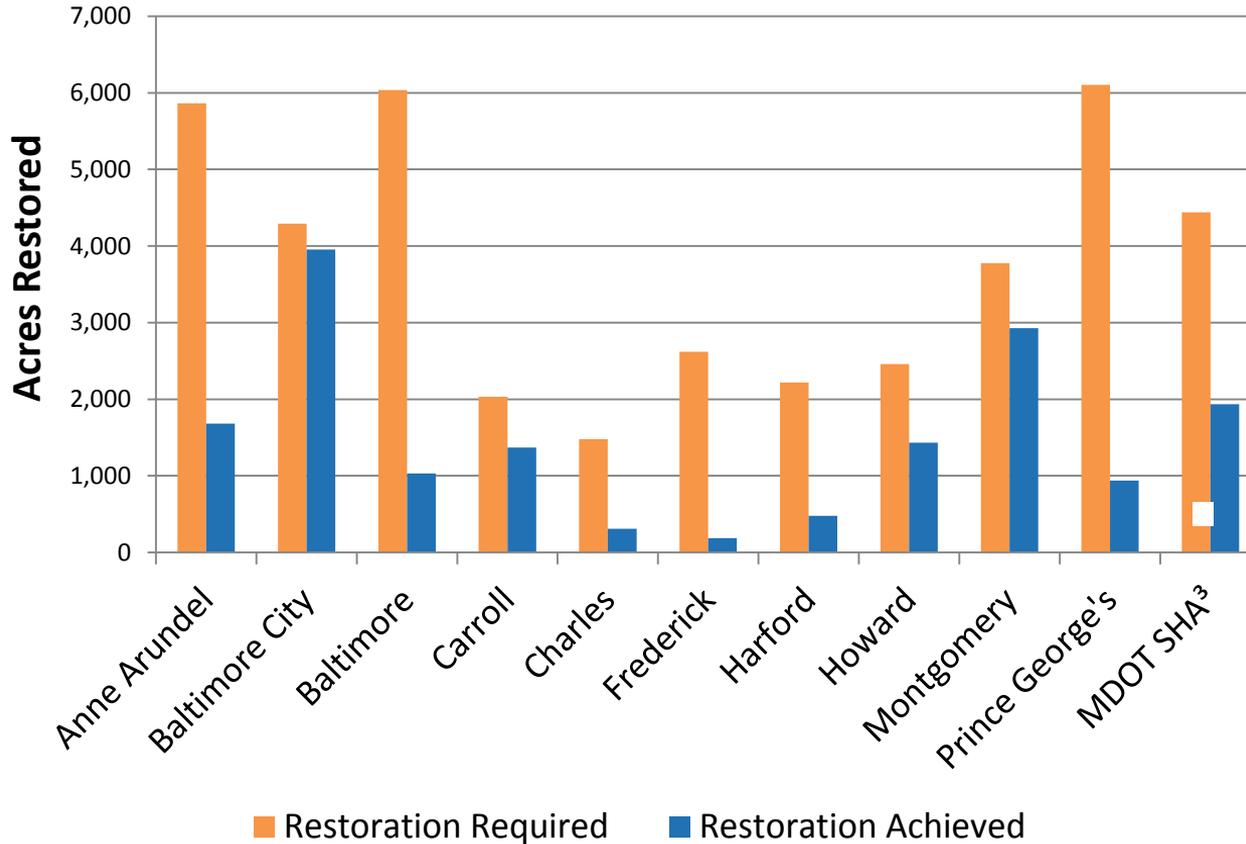


Diverse Projects to Meet MS4 Permit Requirements



Source: Annual Report on Financial Assurance Plans and the Watershed Protection and Restoration Program (2017)

Specific Actions Completed Through FY2017 to Meet ISRP Permit Requirements



Road Blocks and Issues

- High cost and limited opportunities for constructing SW BMP retrofits
- Permitting Delays
- Access to Private Property
- Limited Available Sites
- Public Acceptance
- Limited Availability of Design/Construction Contractors



Cost Effective Strategies

- Pay For Performance Contracts
- Design, Build, Operate, Maintain (DBOM) Contracts
- Low Interest Loans
- Public - Private Partnerships



Creating Flexibility

- Water Quality Trading
- Impervious Acre Baseline
- Further Clarification on Restoration Crediting
- Pilot Alternative Practices and Accounting

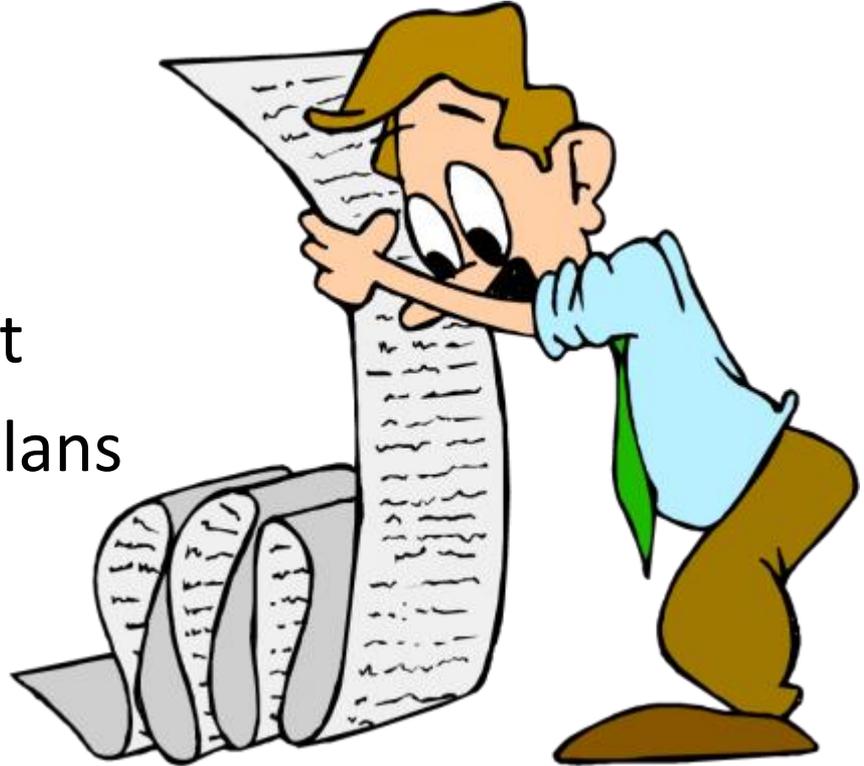


What's Next?

- Phase I Permit Modifications (November-December 2018)
- Annual Reports and Financial Assurance Plans (2018/2019)
- Phase I Large Permits Expire (end 2018/early 2019)
- Phase I Medium and SHA Phase I Large Permits Expire (2019/2020)

Next Phase I Permit Expectations

- Water Quality Trading
- Pooled Monitoring
- Restoration Requirement
- TMDL Implementation Plans
- Consistent with TMDLs
- Crediting Co-Benefits



Questions?

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