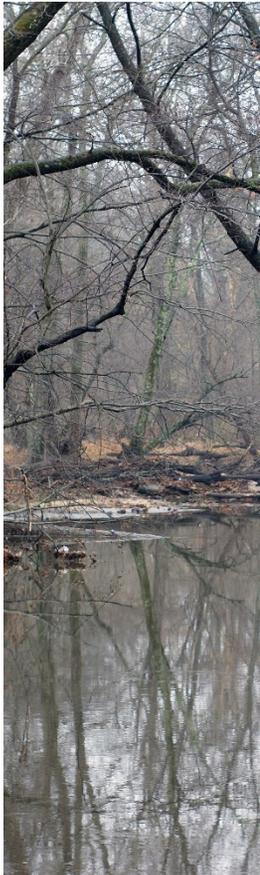


SALT MANAGEMENT STRATEGY: WATER QUALITY MONITORING AND RESEARCH WORKGROUP

THE KEY TO ADAPTIVE IMPLEMENTATION

Effective monitoring strategies are a cornerstone of quantifying short- and long-term ambient water quality changes and BMP implementation effectiveness. As such, water quality monitoring is an essential component of adaptively managing chlorides in Northern Virginia. In addition to articulating monitoring needs, this workgroup is tasked with identifying research needs to assist in SaMS implementation as well as identifying funding options to support water quality monitoring. Example topics for consideration by this workgroup are provided below. The lists are not exhaustive. They are meant to initiate workgroup discussions.



Ambient Water Quality Monitoring

- Use existing monitoring efforts as a starting point, where possible, and suggest enhancements as needed
- Recommend monitoring locations, frequency, and parameters
- Consider monitoring by different sectors (public, private, volunteer)
- Evaluate potential need to develop SaMS-specific monitoring guidelines

Research

- Consider the roles and strengths of various groups (e.g. utilities, government, universities) in the research process
- Identify areas where enhanced understanding could assist in SaMS implementation
- Promote testing and evaluation of new implementation strategies for continued improvement
- Articulate mechanisms for incorporating external research into the SaMS implementation process
- Compile literature on research needs identified in other geographic areas

BMP Effectiveness Monitoring

- Locate monitoring locations strategically
- Determine sampling frequency to answer key questions
- Identify parameters to promote application of study conclusions
- Design the monitoring in an adaptive way that encourages re-evaluation and modification as needed

Reporting Salt-Related Water Quality Data

- Utilize national data portals like EPA's STORET
- Articulate important aspects of summarizing and communicating data for outreach
- Track water quality trends over time
- Identify common metrics and methods for data comparability

The information in this flier was compiled from existing materials in the sources listed below.

References:

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