

Salt Management Strategy (SaMS)

Technical Training Agenda

May 24, 2018: 9:00 AM – 3:00 PM

Location: Griffith Water Treatment Plant
9600 Ox Road, Lorton VA 22079

Morning Session

- 9:00 AM – 9:10 AM Opening and Welcome
Mr. Charles Murray, General Manager, Fairfax Water
Mr. Bryant Thomas, Regional Water Permit & Planning Manager, DEQ
(25 min. presentations with 10 min. for Q&A)
- 9:10 AM – 9:45 AM *Winter Storm Operations for Transportation*
Speakers: Ms. Lauren Mollerup and Ms. Marian Carroll, VA Dept. of
Transportation
- 9:45 AM – 10:20 AM *Winter Storm Operations for Private Commercial Properties*
Speaker: Mr. Phill Sexton, WIT Advisers, speaking on behalf of SIMA (Snow
and Ice Management Association)
- 10:20 AM – 10:55 AM *An Introduction to the Mechanics of Salt and Research in the Transportation
Sector*
Speaker: Mr. Andy Alden, Virginia Tech Transportation Institute
- 10:55 AM – 11:10 AM **BREAK**
(30 min. presentations with 10 min. for Q&A)
- 11:10 AM – 11:50 PM *Winter Storm Best Management Practices*
Speaker: Dr. Wilf Nixon, Salt Institute
- 11:50 AM – 12:30 PM *Alternative Chemical Products and Treatments*
Speaker: Diana Clonch, DW Clonch-LLC
- 12:30 PM – 1:00 PM LUNCH**
Please bring your lunch or order through DEQ (order information to be
provided in separate correspondence)

Afternoon Session

- 1:00 PM – 3:00 PM Panel Discussion with Speakers (includes a 15 min. break at 1:45 PM)

 ****Training event ends for SAC members****
- 3:00 PM – 3:15 PM **BREAK**
- 3:15 PM – 4:00 PM DEQ Discussion with Speakers

Speaker Presentation Topics

Winter Storm Operations for Transportation. Lauren Mollerup and Marian Carroll, VA Dept. of Transportation.

An overview of VDOT's operations for winter storms and the challenges they face will be the focus of this presentation. In addition, VDOT will discuss the BMPs they have found to be the most practical for their operations, and measures they take prior to, during and if applicable, post storm.

Winter Storm Operations for Private Commercial Properties. Phill Sexton, WIT Advisers, speaking on behalf of SIMA (Snow and Ice Management Association).

This presentation will provide an overview of the operations and challenges typically faced by private commercial property owners and the operators that work for those businesses, and identify opportunities for improved winter maintenance practices. The Sustainable Winter Management (SWiM™) program, developed to help property owners, facility/property managers and snow and ice management contractors sustainably predict and control the costs, quality, environmental effects, business continuity issues and risks associated with managing winter storms, will be highlighted.

An Introduction to the Mechanics of Salt and Research in the Transportation Sector. Andy Alden, Virginia Tech Transportation Institute

A general overview of the mechanics behind salts used to manage snow and ice will be provided in this presentation. Additionally, it will touch on the physical constraints of the different types of salts that are used, such as the different conditions under which the different salt products are best used. The presentation will also cover cutting edge research in the transportation sector related to managing snow and ice.

Winter Maintenance Excellent Management Practices. Dr. Wilf Nixon, Salt Institute

Excellent management practices (EMPs) for winter maintenance can be considered in two parts – practices related to salt storage and practices related to maintenance operations. This talk will focus primarily on maintenance operations, and will present a number of well-established EMPs in this area. It is important to note right from the start that not every EMP is suitable for every agency. The priorities and constraints of each agency (and even of districts or other sub-units within a single agency) mean that some EMPs will be unsuitable for a given location. That said, these EMPs have been shown to optimize the use of salt consistent with achieving a desired level of service on the roads. Each EMP will be described in sufficient detail that the benefits and costs of implementing the EMP will be broadly captured. The purpose of this is to provide a common understanding of the options that are available for the development of a suitable Salt Management Strategy.

Alternative Chemical Products and Treatments. Diana Clonch, DW Clonch-LLC

An overview of alternative chemicals (i.e. those other than viewed as “traditional”) that may be used in winter storm operations and/or combined with more traditional chemicals (i.e. sodium chloride) will be covered in this presentation. The discussion will define the suite of alternative chemicals available and discuss how alternative compounds can be combined with traditional ones to maximize benefits and the pros/cons of the suite available.