

City of Alexandria, Virginia

2016 Winter Weather Preparedness

January 12, 2016



Average Winter Conditions



- Average Winter Precipitation 15 inches
- Average Winter Mean Temperature of 42.4
- Typically mobilize snow and ice control team 8 times in an average season
- Snow and Ice Response budget of \$836,000

One City Response



- 561 lane miles of roadway, 20 miles of publicly owned sidewalk and 44 acres of municipal parking lots/squares
- Approximately 60 City & contractor trucks
- Heavy & light equipment
- Multiple departments with 100+ staff



Winter Weather Emergency System



Level	Incident	Message	Goals	Objectives: Streets Group	Objectives: Pedestrian Group	Objectives: Facilities Group
Level 0	Potential for ice and or snow within 48 hours	Roadways may become dangerous. Drivers are advised to use caution	Application of de-icing chemicals on bridges, overpasses, and primary roads as necessary	1. Bridges/Overpasses 2. Primary Roads		
Level 1	Up to 8 inches snow (or other variables) that can be managed using existing City resources Up to 8 inches snow (or other variables) that can be managed using existing City resources	Roads may be dangerous. Drivers are advised to use caution.	Snow-covered roads will be made passable and then plowed. Schools access is a priority. Roadways may not be completely clear for 3 days.	1. Primary Roads 2. Secondary/Hills 3. Local/Residential 4. Critical Curb Ramps	1. All School Pedestrian Areas & Parking Lots 2. Metro station area sidewalks 3. Overpasses & Bridges 4. Recreation Centers 5. Marina/Boat House 6. Parks/Commuter Trails	1. 24 hour facilities 2. Other City Facilities * City Buildings * Libraries * Museums
Level 2	8+ inches of snow or conditions that require additional resources	Roadways are hazardous. Drivers advised to limit travel to emergency trips.	Bring conditions to Level 1. Roadways may not be completely clear for 5 days.	1. Primary Roads 2. Secondary Roads/Hills 3. Local/Residential 4. Critical Curb Ramps 5. Catch Basins	1. Metro sidewalks 2. Schools 3. Overpasses/Bridges 4. Rec Centers 5. Marina/Boat House 6. Commuter Trails/Parks	1. 24 hour facilities 2. Other City Facilities * City Buildings * Libraries * Museums
Level 3	Natural disaster conditions that outstrip City resources	Roadways closed to non-emergency personnel.	Bring conditions to Level 2 (no estimate available on clearing)	1. All roads passable for Emergency and Public Utility Vehicles	1. Critical Infrastructure * Hydrants * Catch Basins * Roofs	1. 24 hour facilities 2. Other City Facilities * City Buildings * Libraries * Museums



Pretreatment Program

- Accu Brine System- New in 2013/14
- Crews treat Primary Routes, Bridges, Overpasses, and hills 24+ Hours before storm
- Great success...when the weather cooperates!
- Very efficient and economical- crews can treat all primary routes, bridges, overpasses, and hills for less than \$2,500 per event.
- Friday treatment will occur as long as no rain is forecasted for the weekend



A photograph of a residential street completely covered in snow. Bare trees with snow-laden branches line both sides of the road. Several cars are parked along the street, their roofs and windows heavily blanketed in white snow. The scene is quiet and wintry.

Questions