

# NORTHERN VIRGINIA SNOW BRIEFING

Metropolitan Washington Council of Governments

**Lauren Mollerup, P.E., CCM, District**  
Maintenance Engineer

November 7, 2019

# Northern Virginia District Background

- **Fairfax, Loudoun, Prince William, and Arlington\***  
*\* Arlington maintains own network (secondary roads)*
- **Population: 2.2 million**
- **Commuter lots: 24**
- **Bridges/large culverts: 2,000**
- **Traffic signals: 1,400**
- **VDOT employees: 866**

A white utility truck with a snowplow attachment is parked in a maintenance yard. The truck is the central focus, with other similar vehicles and equipment visible in the background. The scene is set in front of a large, modern building with a brown brick facade and a flat roof. The sky is overcast and grey. The truck has orange safety lights on its roof and a large orange blade mounted on the front. The ground is paved asphalt.

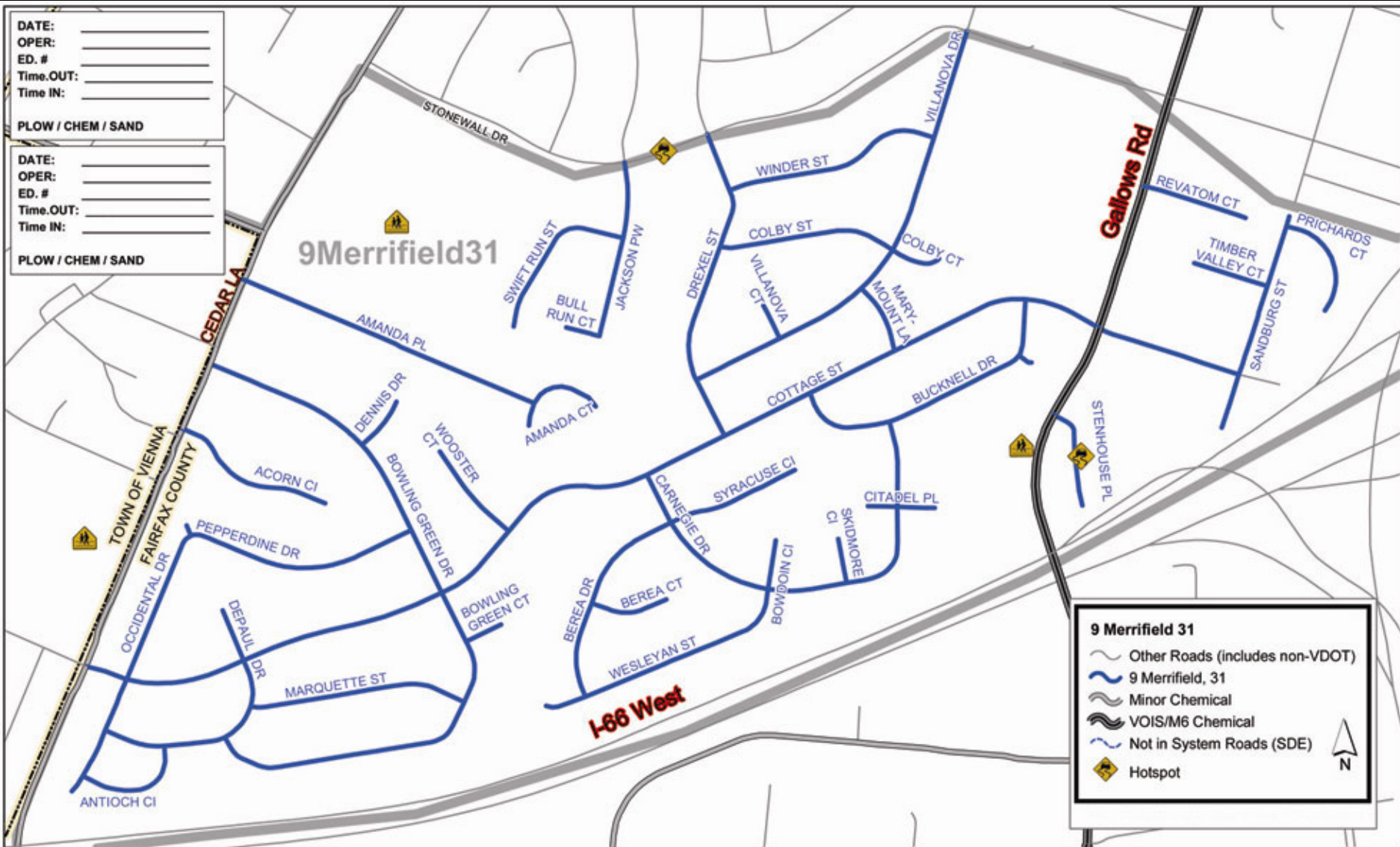
**Total lanes miles: 14,025**

- **Interstate: 802 • Primary: 1,781**
- **Secondary: 11,366**
- **Gravel: 286 • Frontage: 76**
- **Subdivision streets: 16,862**

**18 maintenance headquarters**

**Arlington: 1, Fairfax: 9, Loudoun: 4,  
Prince William: 4**

The district is divided into 647 snow maps to include interstates, primary, and secondary roads.





**2019-2020 Snow removal budget**  
**\$53.4 million**

**Materials at start of season**

Salt: 120,000 tons

Sand: 25,000 tons

Brine: 250,000 gallons

**Pieces of equipment**

**3,500 (*mostly contracted*)**



## **Planning, preparations, and training begin in July**

- Electronic M7B
- BIMS
- TAMS
- Service Contracts



- **Forecast reviews** with National Weather Service ([weather.gov/washington/winter](http://weather.gov/washington/winter)) and Iteris
- **Mobilization plan** determined, including if incident command will be activated
- **Message is shared with residencies** including counties and interstates

**VDOT MOBILIZATION PLAN VDOT MOBILIZATION PLAN**  
**Start Time: TBD – End Time: TBD**  
**EVENT #16; AU1 # NVSNW1916**

**Weather Summary:**  
 The DME has declared an local emergency at 0:00 M on //19.

**FAIRFAX**

Fairfax					
<b>Day Shift Residency Manager</b> Jerry Himes 571-969-0538			<b>Night Shift Residency Manager</b> Paul Matticks - 703-975-5027		
Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
102 Merrifield	Melvin Riser	(571)749-8058	Craig Detwiller	(703)638-8795	703-259-2317
103 Chantilly	Justin Springhetti	(571)749-8870	Keith Wester	(703)268-0121	703-259-2317
104 Clifton	Russell Dodson	(571)749-8072	David Klink	(571)749-8045	703-259-2317
105 Van Dorn	Harry Lagree	(703) 774-2803	Howard Stewart	(571) 238-7091	703-259-2317
106 Lorton	Howard Akers	(571)749-8061	Shane White	(703)656-1520	703-259-2317
107 Mt. Vernon					
109 McLean					
110 Reston					
111 Burke					
Loudoun					

**NOVA 4:00am Status Report 3/8/19**

**LOUDOUN**

Area	Air Temps	Surface Temps	Precipitation/Accumulation	Current Weather Conditions (Clear/Fair/Poor/Moderate)	# of VDOT Trucks	# of M7B Trucks	Service Contract Trucks	# M7B Loaders/Heavy Equipment	Monitors	SWAS Updated?	TOC/VA-511 Road Closures	Issues/Comments
Interstate/Arlington	34-39	34-38	0	Clear	4	2	43	4	1	yes	None	None reported
Fairfax	34	35	0	Cloudy / Rain	31	444	0	8	4	Yes	N/A	N/A
Loudoun	32-35	33-35	0.0 in east 2-inches Hillsboro	Cloudy	14	57	70	2	10	SWAS Updated at 2:00am	None At this time	Icying out in western areas
Prince William	33-34	33-37	wet / 0	Cloudy	19	13	0	1	0	yes	0	No issues and on stanby

**PRINCE WILLIAM**

Lake Ridge	Mike Collier	571 749-8056	Bill Cornell	571 571 220-5282	703 590-5131
Manassas AHQ	Glenn Gill	571-221-6074	Darren Dodson	571-220-5278	703 366-2033

**INTERSTATE/ARLINGTON**

<b>Day Shift Residency Manager Jimmy Coleman (571) 259-5813</b>			<b>Night Shift Residency Manager (7 PM - 7 AM)</b>		
Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
401 Arlington	Henry Williams	571 369-8798	Russell Graham	571-748-8823	703-486-3393
402 I-66	John Carter	571-722-5342	Ron Hickman	571-437-2564	703-486-3393
403 I-95	Roy Campbell	571-384-0384	Bill Ludke	571-749-7871	703-486-3393
404 - Beltway (495)	Robert Red	571 238-0347	Stanley Newman	571-220-5315	703-486-3393



**2019 - 2020 NOVA Mobilization Levels**

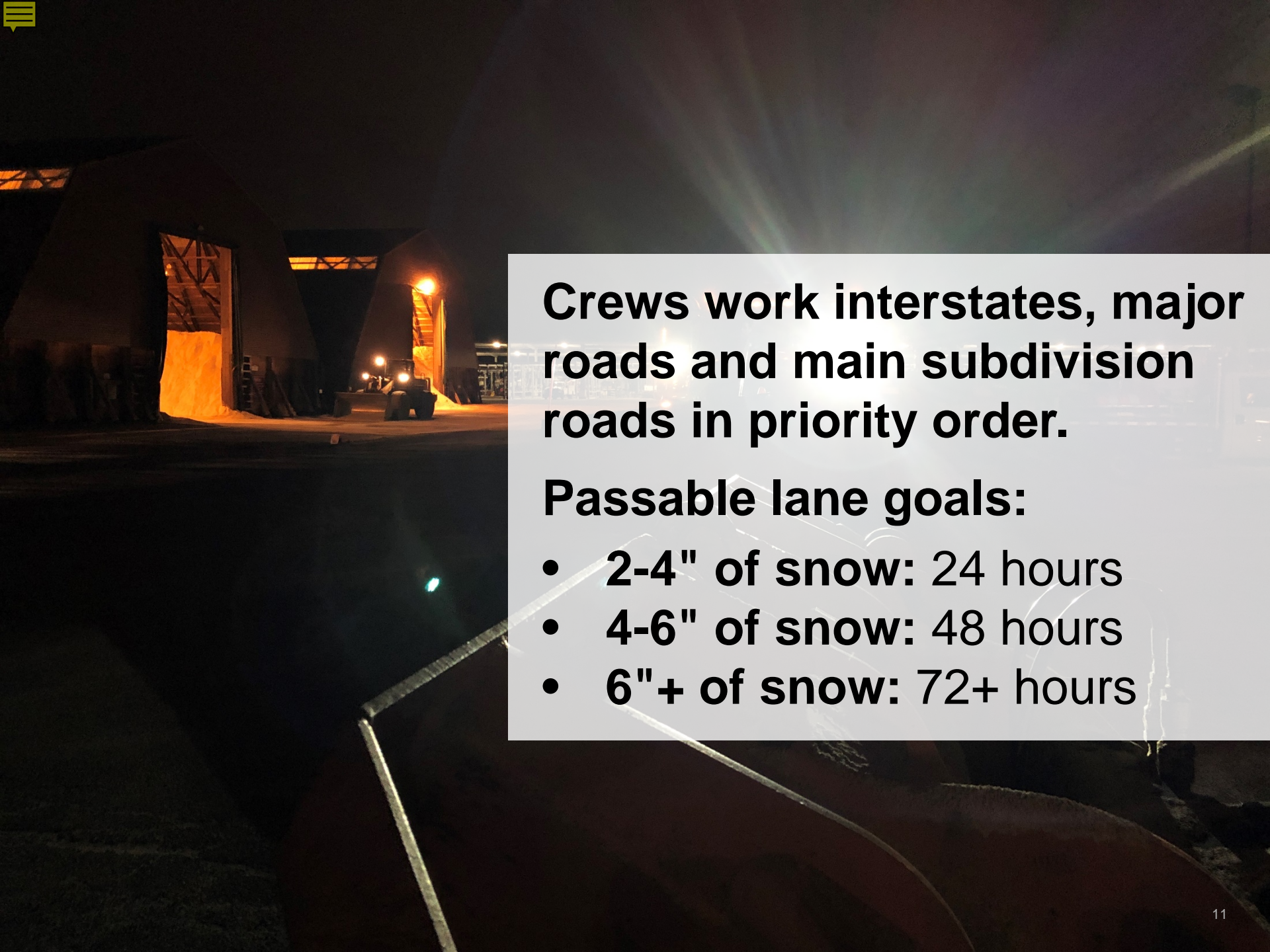
Weather Forecast	Mob. Level	Response Plan	SALT Application Rate*	Applied Lane Miles		Equipment Required (based on VDOT single axle truck carrying)				Comments
				Area	Miles	Area	Liquid	Salt	Total	
Precipitation: 20% or Greater Accumulation: Ice/Snow Possible Ambient or Pavement Temp: 30-36	Anti Ice	Treatment of Critical Structures & Locations	Application Liquid: 50 gal/ln mi Application Salt: 325 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	State and Hired Anti-Ice Units
				FFX	1520	FFX	50		50	
				PW	250	PW	13	7	20	
				LDN	700	LDN	30		30	
				INT	400	INT	10	14	24	
				DISTRICT	2870	DISTRICT	103	21	124	
Precipitation: 20%-49% or Greater Accumulation: Snow Possible Ambient or Pavement Temp: 30-36	Skeleton Crews	Spot Treatment of Critical Structures & Locations Respond to Icy Conditions as Needed	325 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	Maintenance Crews
				FFX	1520	FFX		121	121	
				PW	570	PW	13	14	27	
				LDN	700	LDN		20	20	
				INT	400	INT		24	24	
				DISTRICT	3190	DISTRICT	13	179	192	
Precipitation: 20%-49% or Greater Accumulation: Snow Possible Ambient or Pavement Temp: 30-36	1	Springfield Interchange, Spot Treatment of Other Critical Structures & Locations	325 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	State and Hired Equipment
				FFX	5857	FFX		492	492	
				PW	570	PW	13	19	32	
				LDN	700	LDN		89	89	
				INT	900	INT		47	47	
				DISTRICT	8027	DISTRICT	13	647	660	
Precipitation: 50%-100% Chance Accumulation: Up to 1 inch of Snow Ambient or Pavement Temp: 25-29	2	Light Salting Operation; Limited Work in Subdivisions - Includes Cold Spot Treatment in Subdivisions & Gravel Roads	400 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	District Monitors, District Support Team
				FFX	5857	FFX		992	992	
				PW	2630	PW	13	127	140	
				LDN	1811	LDN		136	136	
				INT	900	INT		94	94	
				DISTRICT	11198	DISTRICT	13	1349	1362	
Precipitation: 50%-100% Accumulation: Up to 2 inches of Snow or 1/10 inch of Ice Ambient or Pavement Temp: 20-24	3	Salting Operation; Potential for Plowing; Includes Cold Spot Treatment in Subdivisions & Gravel Roads	475 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	Mechanics on Site - Call Center Open, Snow Rooms Open, VA Traffic
				FFX	8024	FFX		1938	1938	
				PW	3507	PW	13	339	352	
				LDN	3137	LDN		371	371	
				INT	1894	INT		130	130	
				DISTRICT	16562	DISTRICT	13	2778	2791	
Precipitation: 50%-100% Accumulation: Up to 6 inches of Snow or 1/4 inch of Ice Ambient or Pavement Temp: 15-19	4	Salting/Plow Operation; Includes Plowing Subdivisions & Sanding as Necessary	550 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	All of the Above
				FFX	8024	FFX		2220	2220	
				PW	3507	PW	5	520	525	
				LDN	3137	LDN		511	511	
				INT	1894	INT		241	241	
				DISTRICT	16562	DISTRICT	5	3492	3497	
Precipitation: 50%-100% Accumulation: Up to 6 inches of Snow or 1/4 inch of Ice Ambient or Pavement Temp: 10-14	5	Salting/Heavy Plow Operation; Includes Plowing Subdivisions & Sanding as Necessary ALL RESOURCES ARE DEPLOYED	625 lbs/mi	Area	Miles	Area	Liquid	Salt	Total	All of the Above, Heavy Equipment and Possibly HERT Teams
				FFX	8024	FFX		2341	2341	
				PW	3507	PW	13	646	659	
				LDN	3137	LDN		580	580	
				INT	1894	INT		422	422	
				DISTRICT	16562	DISTRICT	13	3989	4002	



## Anti-Icing

- **Anti-icing treatment most effective during first hour** of weather event
- **Reduces bonding** to asphalt and concrete surfaces
- **Piloting brine treatments during storms** when conditions are favorable

Depending upon the storm and the window of time, we may perform a **partial or full treatment of all bridges, overpasses, elevated surfaces, primary and/or secondary roads.**



**Crews work interstates, major roads and main subdivision roads in priority order.**

**Passable lane goals:**

- **2-4" of snow: 24 hours**
- **4-6" of snow: 48 hours**
- **6"+ of snow: 72+ hours**



## Additional priorities:

- Getting the roadways **as safe as possible**
- **Shoulders, ramps, turn lanes, intersections**
- **12,000** park-and-ride spaces

## Sidewalks and Trails

- Crews asked to be mindful, but often **limited room to pile snow from roads**
- Special care is requested near schools and emergency facilities
- **Residents and businesses are asked to clear near their property**
- Check with **localities for ordinances**

# DEQ “SaMS” *Salt Management Strategy Development*

- Since Jan. 2018, VDOT has participated in the Salt Management Strategy (SaMS) development coordinated by Virginia Department of Environmental Quality (DEQ)
- Stakeholders working to balance the public’s safety and the impacts of salt use
- Aims to raise awareness of salt use; share how individuals, businesses, and organizations can participate; and provide voluntary guidance for potential monitoring and research
- Plan will be under development through 2020. Details: [www.deq.virginia.gov/sams](http://www.deq.virginia.gov/sams)

A background image showing a road with a yellow double line and a white edge line. A snowplow is visible in the distance, clearing snow on the road. The scene is set against a clear blue sky and bare trees.

## Stay informed:

- [viriniadot.org/novaemergency](https://viriniadot.org/novaemergency) One-stop shop for links to news releases, Twitter feed, status updates, VDOT Plows, customer service, FAQs and other resources
- [@vadotnova](https://twitter.com/vadotnova) for updates
- [511virginia.org](https://511virginia.org) for road conditions and traffic cameras
- [vdotplows.org](https://vdotplows.org) for status of subdivisions once 2” have fallen



# Questions?

