

Annual Report for Year 1 (2022-2023) of the Time Limited Water
Quality Standard for Chloride

6/30/2023

Prepared by City of Chicago Department of Streets and Sanitation.



City of Chicago DSS is a member of
the Chicago Area Waterways Chloride
Workgroup



1.0 Introduction to Chloride Issue in CAWS/LDPR

This Pollutant Minimization Plan (PMP) has been prepared by City of Chicago Department of Streets and Sanitation (DSS) to reduce the environmental impacts from the organization's chloride related operations. City of Chicago DSS is a discharger covered under the Time Limited Water Quality Standard for Chloride for the Chicago Area Waterways System and Lower Des Plaines River watersheds. This PMP has been prepared to meet the requirements laid out in the Time Limited Water Quality Standard (TLWQS) for Chloride. The term of this PMP covers the first 5-years of the TLWQS period and will be updated following the re-evaluations at Years 4 ½, 9 ½, and 14 ½.

Chloride is a permanent pollutant. It does not degrade over time and continues to accumulate in the environment. Proactive measures to reduce the amount of chloride discharged can help reduce the impacts from chloride on receiving waterways and the environment. Chloride impacts aquatic life, vegetation, and infrastructure. As the chloride concentrations increase and our waters become saltier, aquatic and plant biodiversity decreases and native species are overtaken by salt tolerant invasive species.

Chlorides are commonly found in road salt, fertilizers, water softeners, dust suppressants, and certain industrial processes. Chloride-based deicers, like rock salt, are used on parking lots, sidewalks, and roads to provide safe surfaces to the public during the winter months. These deicers are one of most common sources of chloride in the Chicago region.

The water quality standard for chloride for the Chicago Area Waterway System (CAWS) was updated as part of the rulemaking process related to changing the designated use of the CAWS. The chloride standard was updated from 1,500 mg/L during the winter and 500 mg/L during the summer to 500 mg/L all year round. The change in the chloride water quality standard took effect in 2018. Because portions of the CAWS were not going to meet this new standard due to the need to maintain public safety on roads, highways, sidewalks and parking lots during the winter months, a joint submittal and supporting individual petitions were submitted between 2015 and 2018 to the Illinois Pollution Control Board for a variance from the chloride standard. The joint petition laid out best management practices that can be achieved by the petitioners to reduce their chloride use while maintaining public safety during winter storms. In addition to the CAWS, portions of the Lower Des Plaines River watershed were included as it receives water from the CAWS.

On November 4, 2021, the IPCB issued an Opinion and Order for a Time Limited Water Quality Standard (TLWQS) for Chloride for portions of the CAWS and Lower Des Plaines River watersheds. The TLWQS for Chloride watersheds are defined in the Opinion and Order as the Des Plaines River watershed from the Kankakee River to the Will County Line (except for the DuPage River watershed) and the CAWS watershed (except the North Branch Chicago River watershed upstream of the North Shore Channel and those portions of the watershed located in Indiana). This is a watershed-based approach to reduce the chloride concentrations in the CAWS and Lower Des Plaines River. The TLWQS for Chloride requires all dischargers covered under the TLWQS for Chloride to create PMPs and implement specific best management practices based on their operations to reduce their chloride discharges.

2.0 Organization, Facility Information

Agency Name: City of Chicago DSS		
Facility Name: City Hall		Permit Number: ILG103064
Facility Address: 121 N Lasalle St		
City: Chicago	State: IL	Zip Code: 60602

City of Chicago DSS operates 6 snow divisions out of 13 lot locations. Division and lot locations are summarized below:

<u>Division</u>	<u>Lot</u>
Division 1	6441 N Ravenswood
Division 1	4243 N Neenah
Division 2	4619 W Homer
Division 2	1633 W Medill
Division 3	4241 W Ferdinand
Division 3	2505 W Grand
Division 3	1717 W Pershing
Division 4	2350 W 52nd St
Division 4	4600 W 72nd St
Division 5	900 E 103rd St
Division 5	829 W 120th Pl
600s	1752 S Clark
600s	McCormick Place

DSS utilizes 19 salt piles:

<u>Location</u>	<u>Inside or outside?</u>
6441 N Ravenswood	Inside
4201 N Oak Park Ave.	Inside
4501 N Marine Drive	Outside
3500 N Spaulding	Outside
1633 W Medill	Inside
4619 W Homer	Outside
5605 W Grand Ave	Outside
2505 W Grand Ave	Inside
4241 W Ferdinand	Outside
McCormick Place	Inside
2200 S Federal St	Inside
3001 S Rockwell Ave	Outside
39 th and Lake Shore Drive	Outside
2350 W 52 nd St	Inside
5301 S Lasalle St	Outside
4600 S W 72 nd St	Outside
3154 W 95 th St	Outside
10101 S Stony Island Ave	Inside

12000 S Peoria Ave	Inside
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The City of Chicago and its respective departments perform snow and ice control on municipal streets, bridges, parking lots, and at city-owned facilities within the city limits. Highway segments within the city limits are maintained by the Illinois Department of Transportation (IDOT). The City does not remove snow and ice from private streets, parking lots, or driveways. City of Chicago maintains 8,321.3 lane miles of road.

2.1 Level of Service for Winter Maintenance Activities

It is the expectation of our citizens that we will keep all of the city streets sufficiently passable during and following a winter weather incident. To accomplish this, the City will provide, to the extent reasonably possible, effective and efficient measures consistent with generally accepted standard practices to restore mobility.

Due to the many variables associated with winter weather, each event is unique. Factors that influence when and what measures we use include: air and pavement temperatures, wind speeds and directions, precipitation rates and types, time of onset, duration, and traffic activity. Availability of equipment, personnel, and materials is also key factor that affects the effectiveness of snow and ice control efforts.

There are many different levels of snow response that are detailed in the City of Chicago snow plan.

3.0 Best Management Practices

Details regarding City of Chicago DSS’s implementation of the best management practices (BMPs) identified as part of the TLWQS for Chloride are included below.

Workgroup BMP

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
The permittee must participate in a Chlorides workgroup for the CAWS or LDPR, depending on the watershed within which the facility’s discharge is located.	City of Chicago has been a member of the Chicago Area Waterways Chloride Workgroup since 2021. City of Chicago actively participates in meetings and has an at large board member.

Salt Storage and Handling BMPs

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
Store all salt on an impermeable pad that must be constructed to ensure that minimal stormwater is coming into contact with salt	Salt is stored on concrete pads. Some salt storage locations have salt domes. See “Salt Stations Locations” map in the City of Chicago snow plan.

<p>unless the salt is stored in a container that ensures stormwater does not come into contact with the salt.</p>	
<p>Cover salt piles at all times except when in active use, unless stored indoors.</p>	<p>All salt piles without a dome are covered with a tarp except when in active use.</p>
<p>For working areas, provide berms and or sufficient slope to allow snow melt and stormwater to drain away from the area. If snow melt and stormwater cannot be drained away from the working area, channeling water to a collection point such as a sump, holding tank or lined basin for collection, discharge at a later time, use for prewetting, and use for make-up water for brine must be considered.</p>	<p>City of Chicago is targeting to complete this BMP in a future year</p>
<p>MS4/CSO Only - Use deicing material storage structures for all communities covered under General Permit ILR40 for MS4 communities.</p>	<p>City of Chicago currently follows MS4 requirements</p>
<p>Good housekeeping practices must be implemented at the site, including:</p> <ul style="list-style-type: none"> • cleanup of salt at the end of each day or conclusion of a storm event; • tarping of trucks for transportation of bulk chloride; • maintaining the pad and equipment; • good practices during loading and unloading; • cleanup of loading and spreading equipment after each snow/ice event; • a written inspection program for storage facility, structures and work area; • removing surplus materials from the site when winter 	<p>City of Chicago follows all housekeeping requirements outlined in ILR40.</p>

<p>activity finished where applicable;</p> <ul style="list-style-type: none"> • annual inspection and repairs completed when practical; • evaluate the opportunity to reduce or reuse the wash water. 	
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Winter Maintenance Operations BMPs

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
Calibrate all salt spreading equipment at least annually before November 30th. Records of the calibration results must be maintained for each piece of spreading equipment.	City of Chicago calibrates all salt spreaders annually.
Pre-wet road salt before use, either by applying liquids to the salt stockpile, or by applying liquids by way of the spreading equipment as the salt is deposited on the road.	City of Chicago is targeting to complete this BMP in a future year.
Use equipment to measure the pavement temperature unless such equipment has already been installed on road salt spreading vehicles.	City of Chicago utilizes 11 Vaisala Road Weather Systems located around the city. For locations see “5.3.1 Pavement Sensors” in the City of Chicago Snow Plan
Develop and implement a protocol to vary the salt application rate based on pavement temperature, existing weather conditions, and forecasted weather conditions.	City of Chicago follows the procedures set in the “Leadman Manual” for varying the salt application rate.
Track and record salt quantity used and storm conditions from each call-out.	City of Chicago tracks the quantity of salt used for each call out in accordance with the City of Chicago snow plan.
Develop a written plan for implementation of anti-icing, with milestones. The plan should consider increased use of liquids (e.g., carbohydrate products) beginning with critical locations such as bridges over streams.	See section 5.2.2 in the City of Chicago Snow Plan for details on current City anti-icing practices.

<p>Provide employees involved in winter maintenance operations with annual training before November 30th on best management practices in the use of road salt in operations, including the practice of plowing first and applying salt only after snow has been cleared.</p>	<p>City of Chicago will implement a training program for all drivers by 2023. Currently all seasonal snowplow drivers get hands on and classroom training prior to operating a snowplow.</p>
<p>Be responsible for complying with all applicable BMPs even when deicing practices are contracted out and ensure that contractors are properly trained and comply with all applicable BMPs.</p>	<p>DSS does not use contractors.</p>
<p>Complete an annual report, as required by paragraph 3(B) of this order, which is standardized in an electronic format and submitted to the IEPA's website and to the watershed group.</p>	<p>City of Chicago DSS will complete the report in 2023 when the initial report is due.</p>
<p>Obtain and put into place equipment necessary to implement all salt spreading/deicing measure specified in this BMP, such as any new or retrofitted salt spreading equipment necessary to allow for pre- wetting and proper rates of application.</p>	<p>City of Chicago is targeting to complete this BMP in a future year</p>
<p>MS4/CSO/IDOT/TOLLWAY Only - Install equipment to measure the pavement temperature on the winter maintenance fleet for a sufficient number of vehicles to provide sufficient information to adjust application rates for the most efficient levels. Develop and complete a plan to equip the winter maintenance fleet before the first re-evaluation.</p>	<p>City of Chicago has determined that no vehicles need pavement temperature sensors because of the high-quality road temperature data from the 11 Vaisala Road Weather Systems located around the city.</p>
<p>MS4/CSO/IDOT/TOLLWAY Only - Before the first re-evaluation, develop a method for conducting a post-winter review</p>	<p>City of Chicago DSS completes a review following every snow program to evaluate the effectiveness of the snow program.</p>

<p>to identify areas of success and areas in need of improvement. Items to be completed as part of the review must include, but are not limited to, an evaluation of each salt spreader’s application rate, variations in application rates, and discussion of the variation compared to the recommended rates. Once developed, the review should occur annually in the spring/early summer following each winter season.</p>	
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Additional BMPs Identified for Agency/Facility

BMP	Agency Description of Current Implementation
N/A	

3.1 Analysis of BMPs Implemented

DSS continuously reviews and updates its strategy to meet the expectation of its stakeholders including environmental impacts of its operations.

3.2 Analysis of Alternative Treatments or New Technology

At this time DSS is not aware of any new technology that we will implement in the near future.

4.0 Deicing/Anti-Icing Agents Used

Materials used by City of Chicago DSS for the 2022-2023 winter season are included as Appendix 1.

4.1 Application Rates

The application rates used by City of Chicago DSS for the 2022-2023 winter season are included as Appendix 2.

4.1.1 Application Rate Analysis

City of Chicago DSS application rates worked as planned for the 2022-2023 winter season.

4.2 Application Practices

City of Chicago DSS uses the following practices to apply deicing and anti-icing materials:

- Snow plows equipped with salt spreaders spread salt
- Sprayer equipped trucks spray liquid de-icing “supermix” on selected routes.

4.3 Call Outs

A total of 19.7 inches of snow was reported at O’Hare and 16.9 inches of snow was reported at Midway for the 2022-2023 winter. There were 20 snow and ice event(s) for the 2022-2023 winter City of Chicago DSS had 32 of call outs completed during the 2022-2023 winter. A log of all call outs completed by City of Chicago DSS are included as Appendix 3.

4.4 Use of Liquids

DSS uses a “super mix” to prolong the application of salt and prevent the freezing of roads in extreme temperatures. The mixture consists of: 80% salt brine, 15% ice bite derived from beet sugar, and 5% calcium chloride. The mixture is used on Lake Shore Drive, Stony Island (56th to 95th) and Ridge Ave. (from Bryn Mawr to the city limits) as well as bridge decks, overpasses and hills

In 2023 the mix was ordered and available, but not used due to rainy weather conditions during normal application times.

5.0 Training

City of Chicago DSS completed annual training for 77 of employees out of 875 of employees who are part of the winter maintenance operations on 11/02/2022, 11/16/2022, 12/05/2022, and 12/12/2022. A list of annual training topics by type of employee is included as Appendix 4.

6.0 Deicing and Snow Removal Equipment and Maintenance

City of Chicago DSS uses equipment listed in Appendix 5 during winter maintenance activities.

6.1 Description of Equipment Washing and Wash Water Collection

City of Chicago DSS equipment is power washed at their yards while deployed for winter maintenance activities. Equipment is also cleaned annually during annual maintenance.

7.0 Material Storage

City of Chicago DSS maintains 19 storage area(s). Information regarding the storage area(s) is included in Appendix 6.

8.0 Capital Purchases

Identified capital purchases from City of Chicago DSS's PMP to implement the BMPs and reduce chlorides in our operations over the first 5-year term of the Chloride TLWQS are included as Appendix 7.

8.1 Explanation of Capital Purchases Unable to Be Made According to the Reported Plan

Not applicable

9.0 Environmental Monitoring Data

Chloride monitoring data is collected for the CAWS and Lower Des Plaines River watersheds per the IPCB order. The data is maintained by the workgroups. Chloride data for the CAWS is collected by MWRD for the CAWS watershed and provided to the workgroups as part of the annual reporting as required by the IPCB order. The Lower Des Plaines Watershed Group also maintains a USGS monitoring station in the Des Plaines River at Channahon, IL that collects continuous conductivity data to estimate chloride concentrations.

Chloride monitoring data reports are posted to <https://www.cawswatershed.org/reports/> and <https://ldpwatersheds.org/about-us/lower-des-plaines-watershed-group/our-work/chloride-tlwqs/>.

9.1 Organization Specific Chloride Monitoring Data

City of Chicago DSS does not collect chloride monitoring data

9.2 Changes to the Facility's NPDES Treatment Technologies for Chloride

Not applicable

10.0 Program Evaluation

City of Chicago DSS completes a review following every snow program to evaluate the effectiveness of the snow program.

10.1 Proposed Steps for the Coming Year

For 2023 DSS intends to expand its training program and add some new vehicles to replace some of the current equipment.

11.0 Workgroup Participation

City of Chicago has been a member of the Chicago Area Waterways Chloride Workgroup since 2021. City of Chicago actively participates in meetings and has an at large board member.

Appendix 2 Application rates:

See “Leadman Manual” for application rates.

Appendix 3 Call out log:

2022-2023						
Date:	O'Hare snow (in)	Midway snow (in)	# of Programs	Salt Usage (tons)	Type of Program	Precipitation Type
11/15/2022	1.0	0.7	1	3791.25	Full Frost	Wintry Mix
11/17/2022	Trace	Trace	2	457.00	Phase 2	Snow
11/18/2022	0.1	0.3	3	Continued to 11/19	Phase 2	Snow
11/19/2022	Trace	0.2	4	3172.25	Phase 2	Snow
11/30/2022	0.2	0.0	5	0.00	Full Frost	Frost alert
12/3/2022	Trace	0.0	6	0.00	Frost Alert	Frost alert
12/9/2022	0.0	0.0	7	671.25	Frost Alert	Wintry Mix
12/15/2022	1.7	1.8	8	9948.75	Phase 2 Switches	Snow
12/19/2022	0.0	0.0	9	0.00	Full Frost	Frost alert
12/22/2022	1.4	2.7	10	34387.50	Phase 3 Switches	Snow
12/26/2022	Trace	0.3	11	3322.50	Phase 2	Snow
12/27/2022	0.0	0.0	12	4372.50	Phase 2 Inside	Snow (Clearing the snow from inside streets)
1/4/2023	0.2	0.4	13	558.75	Frost Alert	Frost Alert
1/8/2023	0.0	0.0	14	0.00	Partial Frost	Frost Alert
1/12/2023	0.2	Trace	15	0.00	Partial Frost	Frost Alert

1/19/2023	Trace	Trace	16	0.00	Leadmen	Frost Alert
1/21/2023	1.5	0.5	17	5418.75	Phase 2 Switches	Snow
1/25/2023	4.4	3.6	18	0.00	Phase 2 Switches	Snow
1/27/2023	0.8	0.8	19	20711.25	Phase 2	Snow
1/28/2023	2.2	0.8	20	15213.75	Phase 2 Switches	Snow
1/29/2023	0.5	0.2	21	6667.50	Phase 2	Wintry Mix
2/10/2023	Trace	Trace	22	0.00	Full Frost	Frost Alert
2/16/2023	2.0	1.4	23	17302.50	Phase 2 Switches	Wintry Mix
2/22/2023	0.0	0.0	24	0.00	Full Frost	Frost Alert
2/24/2023	1.7	1.2	25	6356.25	Full Frost	Snow
3/3/2023	0.0	Trace	26	1522.50	Phase 2	Frost Alert
3/5/2023	0.0	0.0	27	0.00	Leadmen	Frost Alert
3/9/2023	1.2	0.5	28	2542.50	Phase 2 Switches	Wintry Mix
3/11/2023	0.4	1.5	29	2726.25	Phase 2	Snow
3/13/2023	0.2	0.0	30	2692.50	Phase 2	Snow
3/18/2023	Trace	Trace	31	0.00	Full Frost	Frost Alert
3/25/2023	Trace	Trace	32	0.00	Full Frost	Frost Alert
	19.7	16.9		141835.50		

Appendix 1 - Deicing/Anti-Icing Agents Used

Material or Product	Dry, Pre-Wet, Pretreated, or Liquid	Lane Miles Treated with the Product for 2022-2023	Parking Lot and Sidewalk Area (Sq. Ft.) Treated with the Product for 2022-2023	Total Amount used for 2022-2023 (Year 1) in Tons or Gallons	Total Amount used for 2023-2024 (Year 2) in Tons or Gallons	Total Amount used for 2023-2024 (Year 3) in Tons or Gallons	Total Amount used for 2023-2024 (Year 4) in Tons or Gallons	Total Amount used for 2023-2024 (Year 5) in Tons or Gallons	Total Amount Used Over First 5-Year Term
Salt	Dry	8321.3	0	141835.5 Tons					0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0

Estimates of Relative Material Amounts Applied and Coverage Achieved

Year	Total Lane Miles Maintained	Total Parking Lot and Sidewalk Area (Sq. Ft.) Maintained	Percent of Total Lane Miles Treated with Dry Materials	Percent of Total Lane Miles Treated with Pre-Wet or Pretreated Materials	Percent of Total Lane Miles Treated with Liquids	Percent of Total Parking Lot and Sidewalk Area Treated with Dry	Percent of Total Parking Lot and Sidewalk Area Treated with Pre-wet or Pretreated Materials	Percent of Total Parking Lot and Sidewalk Area Treated with Liquids
2022-2023	8321.3		100%	0%	0%	0%	0%	0%

Organization Name:

Chloride TLWQS Annual Report
Appendix 4 - Annual Training

Role in Winter Operations	Training Topics Covered
"2 hour" seasonal drivers	4 hours of classroom training, 2 weeks hands on training.
Lead snow management	Meeting with CAWS to cover PMP prior to snow season.

Organization Name:

Chloride TLWQS Annual Report
Appendix 5 - Equipment

Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW SALT SPREADER	S11300	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11301	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11303	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11305	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11306	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11307	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11308	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11309	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11310	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11312	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11314	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11315	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11316	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11317	Mechanically controlled	Dry	900 E. 103

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SNOW SALT SPREADER	S11320	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11321	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11322	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11323	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11324	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11325	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11326	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11327	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11328	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11329	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11330	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11331	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11332	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11333	Mechanically controlled	Dry	6441 N. Ravenswood

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Chloride TLWQS Annual Report
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SNOW SALT SPREADER	S11334	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11335	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11336	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11337	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11338	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11339	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11340	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11342	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11343	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11344	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11345	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11346	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11347	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11348	Mechanically controlled	Dry	2300 W. 52nd Street

Organization Name:

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Appendix 5 - Equipment

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SNOW SALT SPREADER	S11349	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11350	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11351	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11352	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11353	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11354	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11355	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11356	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11357	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11358	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11359	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11360	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11361	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11362	Mechanically controlled	Dry	4619 W. Homer

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SNOW SALT SPREADER	S11363	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11364	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11365	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11366	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11367	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11368	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11369	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11370	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11372	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11373	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11374	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11375	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11376	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11377	Mechanically controlled	Dry	2300 W. 52nd Street

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Appendix 5 - Equipment

Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW SALT SPREADER	S11378	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11379	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11380	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11381	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11382	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11383	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11384	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11600	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11602	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11603	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11604	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11605	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11606	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11607	Mechanically controlled	Dry	4619 W. Homer

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SNOW SALT SPREADER	S11608	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11609	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11610	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11611	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11612	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11613	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11614	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11615	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11616	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11617	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11618	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11619	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11620	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11621	Mechanically controlled	Dry	900 E. 103

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SNOW SALT SPREADER	S11622	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11624	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11625	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11626	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11627	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11628	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11629	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11630	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11631	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11632	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11633	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11634	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11636	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11637	Mechanically controlled	Dry	829 W. 120

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SNOW SALT SPREADER	S11638	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11640	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11641	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11642	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11643	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11644	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11645	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11646	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11647	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11648	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11649	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11650	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11651	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11652	Mechanically controlled	Dry	4241 W. Ferdinand

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SNOW SALT SPREADER	S11653	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11654	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11655	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11656	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11657	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11658	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11659	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11660	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11661	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11662	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11663	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11664	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11665	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11666	Mechanically controlled	Dry	829 W. 120

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SNOW SALT SPREADER	S11667	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11668	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11669	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11670	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11671	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11672	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11673	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11674	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11675	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11676	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11677	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11678	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11679	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11680	Mechanically controlled	Dry	6441 N. Ravenswood

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SNOW SALT SPREADER	S11681	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11682	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11683	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11684	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11685	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11686	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11687	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11688	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11689	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11690	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11691	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11692	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11693	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11694	Mechanically controlled	Dry	72nd/Kostner

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SNOW SALT SPREADER	S11695	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11696	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11697	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11700	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11701	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11702	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11703	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11704	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11705	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11706	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11707	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11708	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11709	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11710	Mechanically controlled	Dry	900 E. 103

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SNOW SALT SPREADER	S11711	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11712	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11713	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11714	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11715	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11716	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11717	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11718	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11719	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11720	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11721	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11722	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11723	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11724	Mechanically controlled	Dry	2505 W. Grand Ave.

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SNOW SALT SPREADER	S11725	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11726	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11727	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11728	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11729	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11730	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11731	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11732	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11733	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11734	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11735	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11736	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11737	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11738	Mechanically controlled	Dry	McCormick Place

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SNOW SALT SPREADER	S11739	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11740	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11741	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11742	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11743	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11744	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11745	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11746	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11747	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11748	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11749	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11750	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11751	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11752	Mechanically controlled	Dry	McCormick Place

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SNOW SALT SPREADER	S11753	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11754	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11755	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11756	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11757	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11758	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11759	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11760	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11761	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11762	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11763	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11764	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11765	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11766	Mechanically controlled	Dry	2300 W. 52nd Street

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SNOW SALT SPREADER	S11767	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11768	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11769	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11770	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11771	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11772	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11773	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11774	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11775	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11776	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11777	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11778	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11779	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11780	Mechanically controlled	Dry	6441 N. Ravenswood

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SNOW SALT SPREADER	S11781	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11782	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11783	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11784	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11785	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11786	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11787	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11788	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11789	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11790	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11791	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11792	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11793	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11794	Mechanically controlled	Dry	McCormick Place

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SNOW SALT SPREADER	S11795	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11796	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11797	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11798	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11802	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11803	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11804	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11805	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11806	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11807	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11808	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11809	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11810	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11811	Mechanically controlled	Dry	72nd/Kostner

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SNOW SALT SPREADER	S11812	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11813	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11814	Mechanically controlled	Dry	829 W. 120
SNOW SALT SPREADER	S11815	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11818	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11819	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11820	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11822	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11823	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11824	Mechanically controlled	Dry	1633 W Medill
SNOW SALT SPREADER	S11825	Mechanically controlled	Dry	4619 W. Homer
SNOW SALT SPREADER	S11826	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW SALT SPREADER	S11827	Mechanically controlled	Dry	4241 W. Ferdinand
SNOW SALT SPREADER	S11828	Mechanically controlled	Dry	1717 W. Pershing

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SNOW SALT SPREADER	S11829	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11830	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW SALT SPREADER	S11831	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11832	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11833	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11835	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11837	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11838	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11839	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11840	Mechanically controlled	Dry	McCormick Place
SNOW SALT SPREADER	S11841	Mechanically controlled	Dry	4243 N. Neenah
SNOW SALT SPREADER	S11842	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11843	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11844	Mechanically controlled	Dry	Extra

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SNOW SALT SPREADER	S11845	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11846	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11847	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11848	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11849	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11850	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11852	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11853	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11854	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11855	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11856	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11857	Mechanically controlled	Dry	52nd/Oakley
SNOW SALT SPREADER	S11858	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11859	Mechanically controlled	Dry	18th & Clark

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Appendix 5 - Equipment

Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW SALT SPREADER	S11860	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11861	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11862	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11863	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11864	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11865	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11866	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11867	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11870	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11871	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11872	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11873	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11874	Mechanically controlled	Dry	Extra
SNOW SALT SPREADER	S11875	Mechanically controlled	Dry	2300 W. 52nd Street

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SNOW SALT SPREADER	S11880	Mechanically controlled	Dry	Chicago Reed
SNOW SALT SPREADER	S11881	Mechanically controlled	Dry	Ravenswood
SNOW SALT SPREADER	S11882	Mechanically controlled	Dry	Chicago Reed
SNOW SALT SPREADER	S11883	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11884	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11885	Mechanically controlled	Dry	Ravenswood
SNOW SALT SPREADER	S11886	Mechanically controlled	Dry	Ravenswood
SNOW SALT SPREADER	S11888	Mechanically controlled	Dry	72nd/Kostner
SNOW SALT SPREADER	S11889	Mechanically controlled	Dry	1717 W. Pershing
SNOW SALT SPREADER	S11892	Mechanically controlled	Dry	900 E. 103
SNOW SALT SPREADER	S11894	Mechanically controlled	Dry	3812 S. Iron
SNOW SALT SPREADER	S11963	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11975	Mechanically controlled	Dry	18th & Clark
SNOW SALT SPREADER	S11983	Mechanically controlled	Dry	1633 W Medill

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Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW SALT SPREADER	S11987	Mechanically controlled	Dry	6441 N. Ravenswood
SNOW SALT SPREADER	S11988	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S13200	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S13201	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S13202	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S13208	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW 4X4	S13211	Mechanically controlled	Dry	Grand/Rock
SNOW 4X4	S13213	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW 4X4	S13219	Mechanically controlled	Dry	Chicago Reed
SNOW 4X4	S13223	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S13224	Mechanically controlled	Dry	1633 W Medill
SNOW 4X4	S13225	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW 4X4	S13226	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW 4X4	S13227	Mechanically controlled	Dry	900 E. 103

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Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW 4X4	S13229	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S13230	Mechanically controlled	Dry	2505 W. Grand Ave.
SNOW 4X4	S13231	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW 4X4	S13263	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S13264	Mechanically controlled	Dry	1633 W Medill
SNOW 4X4	S13265	Mechanically controlled	Dry	1633 W Medill
SNOW 4X4	S13267	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S13268	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S13269	Mechanically controlled	Dry	18th & Clark
SNOW 4X4	S13270	Mechanically controlled	Dry	1633 W Medill
SNOW 4X4	S13272	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S23278	Mechanically controlled	Dry	18th & Clark
SNOW 4X4	S23279	Mechanically controlled	Dry	4243 N. Neenah
SNOW 4X4	S23281	Mechanically controlled	Dry	2300 W. 52nd Street

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Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations
SNOW 4X4	S23282	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S23719	Mechanically controlled	Dry	2300 W. 52nd Street
SNOW 4X4	S23720	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S23724	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S23725	Mechanically controlled	Dry	900 E. 103
SNOW 4X4	S23726	Mechanically controlled	Dry	2300 W. 52nd Street
LIQUID SPRAYER TRUCK	S11324	Mechanically controlled	Wet	1633 W Medill
LIQUID SPRAYER TRUCK	S11325	Mechanically controlled	Wet	2505 W Grand Ave
LIQUID SPRAYER TRUCK	S11326	Mechanically controlled	Wet	2300 W 52nd St
LIQUID SPRAYER TRUCK	S11327	Mechanically controlled	Wet	900 E. 103
LIQUID SPRAYER TRUCK	S11329	Mechanically controlled	Wet	4619 W Homer
LIQUID SPRAYER TRUCK	S11330	Mechanically controlled	Wet	4241 W. Ferdinand
LIQUID SPRAYER TRUCK	S11331	Mechanically controlled	Wet	2300 W 52nd St
LIQUID SPRAYER TRUCK	S11332	Mechanically controlled	Wet	829 W 102th St

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Appendix 5 - Equipment

Type of Equipment	Equipment/Vehicle Number	Type of Spreader (mechanically controlled, computer controlled, etc.)	Type of Material Used with Equipment (Dry, Pre-Wet, Pretreated, Liquids)	Other Important Equipment Information Home Locations

Location of Storage Area	Material Stored (Rock Salt, Salt Brine, etc.)	Amount of Material Stored 2022-2023	Material stored under permanent cover? (yes/describe other)	Material stored in a fully enclosed structure? (yes/describe other)	Material stored on an impervious pad? (yes/describe other)	Good housekeeping practices followed at storage area? (yes/describe other)
6441 N Ravenswood	Rock salt	11,000 tons	Yes	Yes	Yes	Yes
4201 N Oak Park Ave.	Rock salt	22,000 tons	Yes	Yes	Yes	Yes
4501 N Marine Drive	Rock salt	3,500 tons	Tarp	Concrete pad	Yes	Yes
4807 W Lawrence	Rock salt	11,000 tons	Tarp	Concrete pad	Yes	Yes
1633 W Medill	Rock salt	18,000 tons	Yes	Yes	Yes	Yes
4619 W Homer	Rock salt	26,000 tons	Tarp	Concrete pad	Yes	Yes
5605 W Grand Ave	Rock salt	6,000 tons	Tarp	Concrete pad	Yes	Yes
2505 W Grand Ave	Rock salt	40,000 tons	Yes	Yes	Yes	Yes
4241 W Ferdinand	Rock salt	24,000 tons	Tarp	Concrete pad	Yes	Yes
McCormick Place	Rock salt	3,500 tons	Yes	Yes	Yes	Yes
2200 S Federal St	Rock salt	16,000 tons	Yes	Yes	Yes	Yes
3001 S Rockwell Ave	Rock salt	24,000 tons	Tarp	Concrete pad	Yes	Yes
39 th and Lake Shore Drive	Rock salt	8,000 tons	Tarp	Concrete pad	Yes	Yes
2350 W 52 nd St	Rock salt	46,000 tons	Yes	Yes	Yes	Yes
5301 S Lasalle St	Rock salt	15,000 tons	Tarp	Concrete pad	Yes	Yes
4600 W 72 nd St	Rock salt	22,000 tons	Tarp	Concrete pad	Yes	Yes
3154 E 95 th St	Rock salt	30,000 tons	Tarp	Concrete pad	Yes	Yes
10101 S Stony Island Ave	Rock salt	40,000 tons	Yes	Yes	Yes	Yes
12000 S Peoria Ave	Rock salt	22,000 tons	Yes	Yes	Yes	Yes
2352 S Ashland	Super Mix Brine	Varies	Yes	Yes	Yes	Yes

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Appendix 7 - Capital Purchases

Capital Purchase Description	Plan/Schedule for Purchase
25 New dump trucks with salt spreaders.	New salt spreader trucks to replace older equipment. Estimated delivery 12/31/23
5 New liquid sprayer trucks	New liquid sprayer trucks to replace older equipment. Estimated delivery 12/31/23