

Chicago Area Waterways Chloride Workgroup December Meeting

December 15, 2021 at 1pm

Microsoft Teams



Today's Agenda

1. CAWCW Updates
2. Associate Membership Dues Discussion and Vote
3. Chloride TLWQS Update and Summary
4. Chloride PMP Framework Discussion
5. Salt Use Survey Preliminary Results
6. Education and Outreach Materials



Petitioners Committed to the CAWS Workgroup

Village of Lynwood

Village of Skokie

Village of Tinley Park

City of Chicago

Village of Wilmette

Village of Orland Park

Village of Park Forest

Village of Homewood

Village of Crestwood

City of Evanston

City of Oak Forest

City of Palos Heights

Village of Lansing

Village of Midlothian

Cook County DOTD

Skyway Concession
Company (Chicago Skyway)

MWRDGC

Ozinga Ready Mix Concrete

Ozinga Materials

Midwest Marine Terminals

Citgo

Stepan Company

Morton Salt



Petitioners Still Deciding

- Winnetka
- Country Club Hills
- LaGrange
- Lincolnwood
- Niles
- Richton Park
- Dolton
- Glenwood
- Morton Grove
- Noramco
- IMTT
- INEOS



Board Members

President: John Schaefer – Village of Homewood

Vice President: Edgar Cano – City of Evanston

Treasurer/Secretary: Joel Van Essen – Village of Orland Park

At-Large: Ed Staudacher – MWRDGC

At-Large: Pat Bonham – City of Chicago



CAWCW Updates

- Incorporation Paperwork Returned from State
- Membership Forms sent out in November
 - Please complete and return, email is ok!
- Workgroup's Bank Account has been opened
 - Invoices for dues and memos to document credits were sent out in November



CAWCW Updates

Budget/Finances Update

- \$38,000 in formation fees covered workgroup expenses up through half of October.
- Bank Account Balance = \$978.00
 - \$100.00 Opening Balance
 - \$878.00 paid in Agency Membership Dues
- Remaining October Expenses to be invoiced
- Going forward Staffing Expenses to be paid based on approved Staffing Agreement with TCF



Associate Membership Dues Discussion and Vote

- Board discussed Associate Membership Dues at November Board Meeting
 - Flat Rate of \$200 for Associate Membership Dues
- Discussion and Vote



Chloride TLWQS Update

- Illinois Pollution Control Board passed the Chloride TLWQS
- Waiting on USEPA's approval
 - Our understanding is that once the USEPA approves the Chloride TLWQS, it will be official and the Illinois EPA will begin the permitting process.
 - Our understanding is that the clock starts ticking on key items with USEPA's approval not Illinois EPA's permits.
- Term is 15 years with re-evaluation every 5 years



Chloride T LWQS Summary/Highlights

- Each petitioner must participate in one Chloride Workgroup for their watershed
- Each petitioner must prepare a Pollutant Minimization Plan (PMPs) for their own operations to reduce chlorides using all identified BMPs (see the table of BMPs)
 - PMP is due 6 months after USEPA approval
 - The workgroup will be creating a framework/template for our members to use to build their PMPs.
- Each petitioner must submit an annual report to IEPA and the Workgroup by July 1 of each year starting with July 1 of year 2.



Chloride T LWQS Summary/Highlights

Other items the CAWCW will assist with:

- Developing Education and Outreach Materials
 - Current materials available at <https://saltsmart.org/outreach/>
- Work with the Salt Smart Collaborative to create a Parking Lots and Sidewalks Winter Maintenance Training and Certification Program for petitioners, contractors, and others
- Support regional winter maintenance training workshops for petitioners and others to attend
- Submittal of Workgroup Status Reports by July 1 of Year 3, 8, and 13 that compiles all annual reports from workgroup members.
- Submittal of Reevaluation to the IPCB at Year 4 ½, 9 ½, and 14 ½.



Chloride | LWQS Summary/Highlights

Important Milestones for Petitioners:

- 6 months: PMPs due and establish way to track deicing salt usage
- November 30 of each year: Complete annual training of all staff involved with salt operations and complete calibration of all equipment (starts in Year 2)
- July 1 of each year: Submit annual report to IEPA and Workgroup (starts in Year 2)



Chloride PMP Framework

- Creating a framework/template for members and consistency across petitioners
- We will discuss the PMP framework with IEPA to be sure it will work for everyone involved
- Framed as agency's planning document (PMP) for term of Chloride TLWQS



Salt Use Survey

- 27 surveys returned across CAWCW and LDWG (one community completed it twice, their results are only counted as one survey)
 - Missing surveys from Tinley Park, Crestwood, Palos Heights, Lansing, Oak Forest, and Stepan
- Over 13,900 lane miles and over 7,300,000 sq. ft. of parking lots and sidewalks maintained.
- For those with records: total of 1,359,928.27 tons of salt used over the last 4 previous winters across all agencies.
 - 5 to 8 communities had no records depending upon the year.



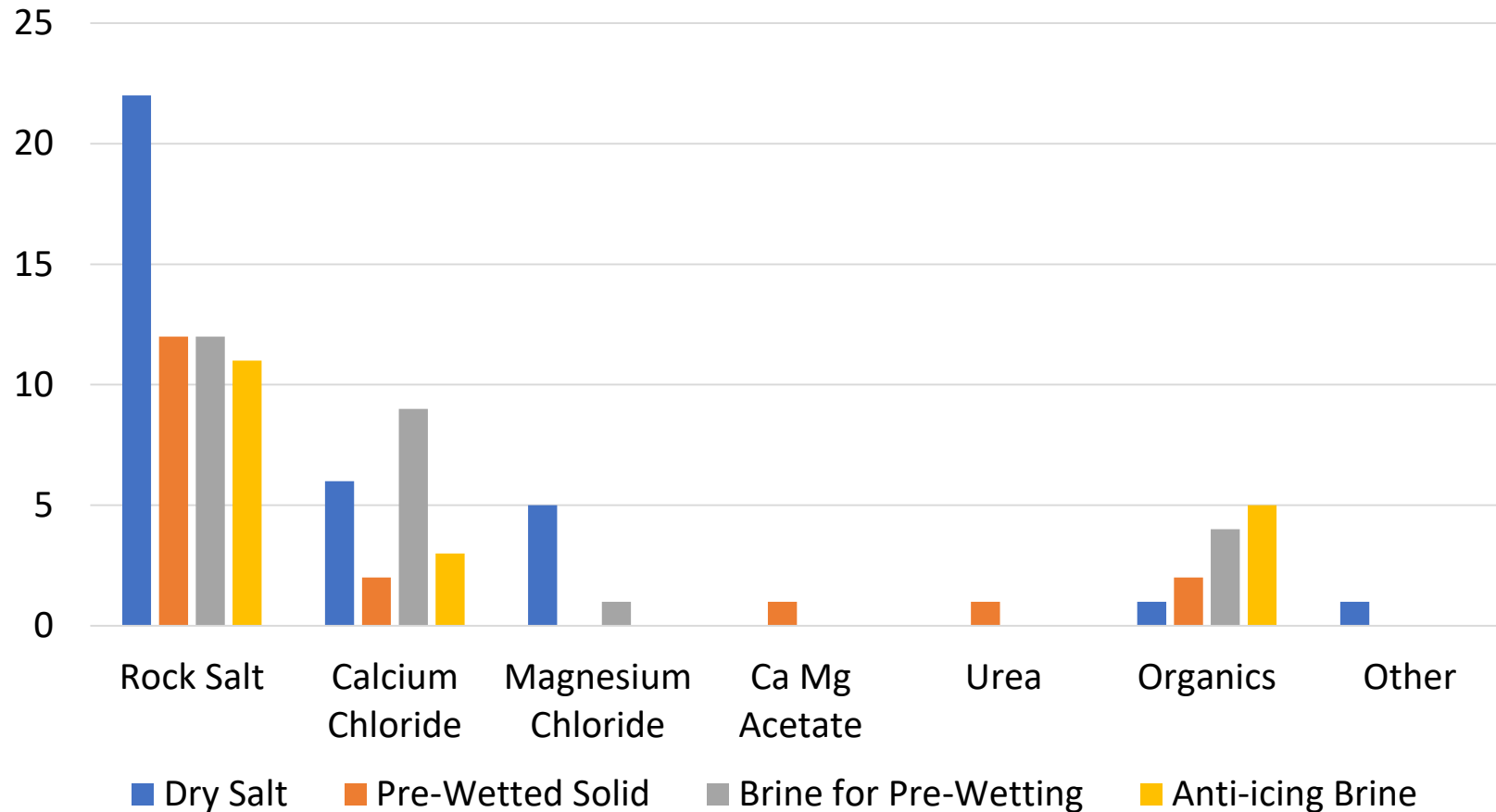
Salt Use Survey

- 20 agencies use pre-wet salt and 19 of those pre-wet on-board equipment.
 - 12 agencies use pre-wet salt for parking lots/sidewalks
- 20 agencies use anti-icing
 - Range from only 10 miles to bridges and overpasses only to 100% of all roads
 - 7 agencies include parking lots/sidewalks in anti-icing program



Salt Use Survey

Materials Used



- Organics Used: Beet Heat, Beet Juice, Bio-Melt AG-7
- No users of Potassium Acetate, Potassium Chloride, Abrasives



Salt Use Survey

- 22 agencies use a weather forecasting service
- 18 agencies use pavement temperature forecasting or sensors
- Most agencies do not use contractors or only use them if needed
- 23 agencies vary the application rates based on weather conditions or pavement temperatures
- 23 agencies calibrate salt spreading equipment at least annually



Salt Use Survey

Most commonly maintained records by Survey Participants

Records Maintained Annually:

- Type of Product Used (12)
- Equipment Calibration (19)
- List of staff who attended training (18)
- Training Dates (19)
- Training topics/materials (17)
- How much salt is purchased (22)
- How salt is stored at your facility (17)

Records Maintained by Truck:

- Equipment Calibration (12)
- Type of Product Used (11)

Records Maintained By Event:

- Type of Product Used (13)
- If Mechanical Removal was used before salt application (11)
- Application Rate (14)
- Amount of Product Used (17)
- Pavement Temperature (14)
- Call out Time (19)
- Precipitation Type and Total (19)
- Lane Miles Cleared with Mechanical Methods (11)



Salt Use Survey

- Average salt storage amount for small agencies/communities is approximately 3,200 tons.
 - Range from 100 tons to 400,000 tons for communities/transportation entities/industrial/potw.
- Commercial salt storage ranges from 10,000 tons to 400,000 tons.
- 20 agencies use fully enclosed structure for salt storage,
 - Of those who do not store in fully enclosed structures, 5 agencies use a permanent structure to cover piles and 3 use tarps
- Only 2 agencies reuse equipment wash water or collect run off for use in brine



Education And Outreach Materials



Materials available now at

<https://saltsmart.org/outreach/>

- Videos, Posters, Blog Posts, Social Media Graphics

Videos

More Isn't Always Better PSA



Education And Outreach Materials

Plow Driver Profiles

- Iowa DOT has had a lot of success with this outreach
 - Put a face to winter maintenance
- Looking for as many Agencies to participate

MEET YOUR PLOW DRIVER

Matthew A.

WHAT I LIKE ABOUT MY JOB
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas blandit consectetur viverra.

ADVICE FOR DRIVERS
Nullam sit amet tortor mauris. Proin sed rutrum metus, in ultrices arcu. Maecenas ut aliquam quam. Sed arcu dolor, bibendum sed condimentum at, convallis nec erat.

My Position
Snow Plow Operator

I work for
City of Naperville

I've been a plow driver for
3 years

SALT SMART COLLABORATIVE



Next Meeting

- Next Membership Meeting Wednesday, March 16th at 1pm
- Future Meetings
 - Quarterly Large Group Membership Meetings
 - 1 pm on March 16th and June 15th



Questions?

Contact:

Hanna Miller – The Conservation Foundation

Office: 630-428-4500 x108

hmiller@theconservationfoundation.org

