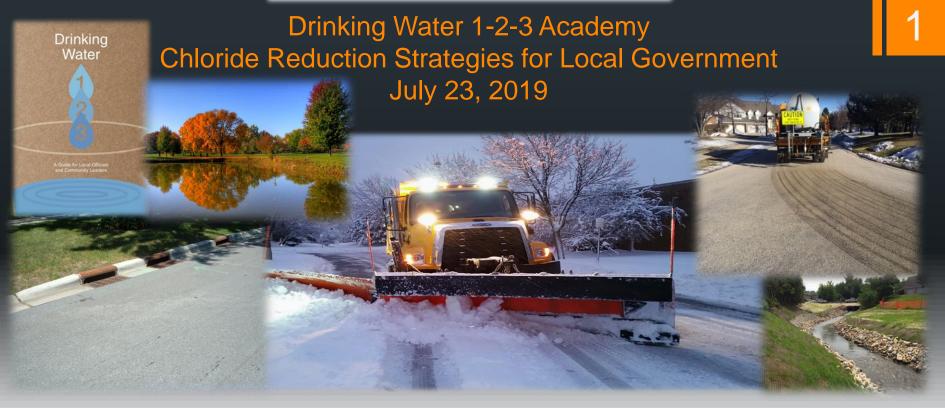
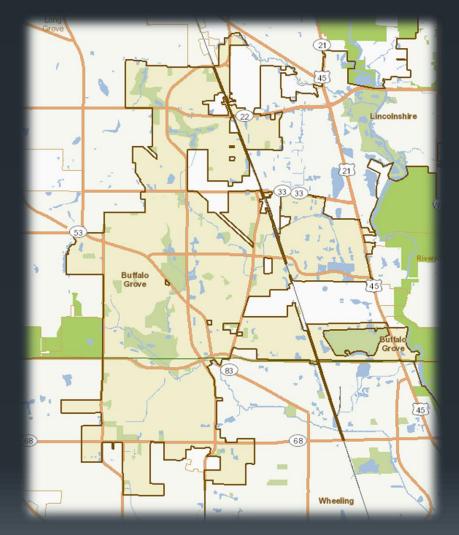
#### Metropolitan Planning Council



#### Presented by : Mike Reynolds, MPA, CPFP, CPWP-M Director of Public Works







ILLAGE OF

Grove

- Incorporated in 1958
- Located 25 miles northwest of Chicago in Two Counties:
  - 22% Cook County
  - 78% Lake County
- 41,778 Population
- 16,997 Households
- 9.3 Square Miles
- 115 Miles of Streets
- 138 Miles of Storm Sewer
- 39 Stormwater Detention Facilities
- 11 Miles of Streams
- 5 Watershed Areas (BC, AC, IC, MC & DPR)

#### **Public Works - Overview**



 First Accredited in 2004

VILLAGE OF

Grove

- 16<sup>th</sup> Accredited Agency, 3<sup>rd</sup> in Illinois
- Currently One of 6 Agencies in Illinois



- 59 Employees
   50 Full Time
  - 9 Part Time/Seasonal
- Three Divisions:
  - Engineering Maintenance (Street, Central Garage, Building Maintenance and Forestry & Grounds) Utilities (Water, Sewer & Drainage)
- Annual Budget:
   Operating: 21 Million
   Capital: 9.6 Million



### Snow & Ice Control - Overview



Village of Buffalo Grove

#### **SNOW & ICE PLAN**



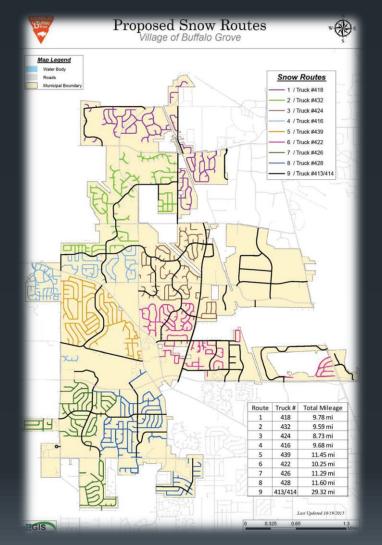
Public Works Department Operation Division 2016 – 2017

- Pre/Post Season Preparations
- Pre/Post Storm Preparations
- Anti-Icing Program
- Route Assignments & Mapping
- Response Levels
- Performance Goals & Objectives
- Pace/Metra & Municipal Campus
- Equipment
- Sidewalk Snow Removal
- Staffing & Assignments
- 5-Year Plan
- Materials & Handling
- Municipal Code Applicability



# Snow & Ice Control - Overview





- 9 Salt/Plow Routes
- 115 Center Line Miles of Streets
- 526 Lane Miles
- Sidewalk Snow Removal for 28 Miles of sidewalks
- Snow Removal at Pace/Metra
- Municipal Parking Lots







# Why Reduce Chlorides?

- Environmental Stewardship
  Compliance Requirements (NPDES, MS4)
  Reduce Operational Costs
- Increase Public Awareness



# **Chloride Reduction - Overview**

#### **Chloride Reduction Efforts**

Use of More Liquids
Pre-Wetting
Anti-Icing
Vehicle Technology
Carbide Cutting Edges
Wing Plows













#### Chloride Reduction - Overview Chloride Reduction Efforts



Old Salt Storage Facility – 1,850 Ton Capacity

- **1**997 \$28/Ton
- 2007 \$40/Ton
- 2008 \$129/Ton
- >2010 \$55-\$70/Ton

New Salt Storage Facility (2015 - \$319,900)
Increased Capacity
Reduced Supply Chain Dependency 8







# **Chloride Reduction - Overview**

Nextdoor

f y in Tube



# Public Outreach

- PW Open House (May 18, 2019 10:00 – 1:00)
- Farmer's Market

Winter Snow Removal and Maintenance

- Newsletter
- Social Media
- Village Website vbg.org
- How Doll + Loom More About + Snow Plowing Snow Plowing Who's Listening? \* Help! My mailbox was knocked now begins to fall down Click Here Submit an online request to have Public Works staff to Damaged Mailbox" in the next window Snowplowsclear the ublic Works Department has established a 8 hour cycle time for each snow route. This Bryan Beitzel middle of all roads in ans that every street maintained by Buffalo Grove should be plowed from the center line to MAINTENANCE SUPERINTENDEN the route, called the "A curb every 8 hours during a snow event. The goal for completion of snow and ice control Lap' ities is within 8 hours of the end of the storm. Various emergencies and equipment issues § 51 Roupp Blvd cause a delay in these response goals, but they help set the departmental pace. Buffalo Grovo II. 60089 L Ph: 847-459-2545 ed Mailboxes: During snow removal efforts, mailboxes may unfortunately be damaged or even ed down by snow plows - but there is a way to address this issue. If the damage was caused by Buffald O Hours: 7:00 am - 3:30 pm Manday ve Public Works, the Department will repair or replace mailboxes and support posts that have been Snow plows clear the curb line of all roads. ed. Until the time that these repairs or replacements can be completed, Public Works will provide called the "B Lap' **Buffalo Grove** Snowplowsalternate betwen "A Lap" and "B Lap" until the storm is Enews over Storm ends, and once all roads are clear curb Your Weekly Bulletin from the Village of Buffalo Grove to-curb, snowplowing Anti-Icing Efforts in Preparation for Weekend Snow

BC Connect

ation

p.m.

lay

p.m

rdavs

**Buffalo** Grove



arrival of the forecasted veckend snow. The liquid used for anti-king is a blend of several chlorides and blended sugar carbolydrates to help the material adhere to the pavement. The product is safe to drive and walk on, can easily be cleaned with water. Any questions or comments regarding the anti-king process should be directed to the Public Works Department during normal business hours, 7:00 a.m. until 3:30 p.m. at 847-459-2545





#### Reduced Lane Mile Coverage Requirements

- 526 TPM to 394 TPM 26% Reduction
- Ultimately will be reduced to 350 TPM 34% Reduction

#### Reduced Material Application Costs

\$11.42 per lane mile to \$7.83 per lane mile – 31%

#### Reduced Overall Program Costs

 \$14.67 per inch, per lane mile to \$13.12 per inch, per lane mile – 11% Reduction (\$40,000 Annually)



# 2016 APWA Award



American Public Works Association

#### Excellence in Snow and Ice Control Award

Nomination Form & Supporting Data



- Materials & Handling
- Equipment
- Training
- Efficiency
- Community Outreach
- Technical
- Environmental



### Village of Buffalo Grove Public Works Department



Mike Reynolds, MPA, CPFP, CPWP-M <u>mreynolds@vbg.org</u> vbg.org 847-459-5537

# Thank You!

