



Floyd Hill Design // CMGC Technical Team

- 1. Introductions & Agenda Review
- 2. Project Updates
- 3. Maintenance Presentation & Discussion
- 4. Wrap Up & Next Steps



Meeting Agenda



Project Updates

- Early Projects
- Environmental Updates
- Utilities
- Other Updates?



Maintenance

Main Topics:

- Winter Maintenance Practices
- Deicer Products and Environmental Impacts
- CSS Processes and Collaboration

WHAT INFLUENCES DEICER ENVIRONMENTAL IMPACT?



Deicer Management

Type of deicer used

How much deicer is applied

How deicer is applied

Local Natural Environment

Types of plants & animals

Topography

Roadside buffer area

Proximity to Watershed

Local Weather

Amount of precipitation

Type of precipitation

Wind speed and direction

Roadside Infrastructure

Road barriers or walls

Drainage ditches

Traffic density

Road surface type

HOW CAN DEICERS ENTER THE ENVIRONMENT?



Reduce deicing environmental impact by using a naturally high performing deicer that gives you more power with less product





Twice the Complex Chlorides of Treated Salt Naturally

The Benefits to Enhanced Chlorides

Adding enhanced liquid chlorides to salt can improve a product's performance. It also comes with some challenges. Salt isn't great at holding liquids, so you often have messy equipment and you can lose a lot of the product through leaching.

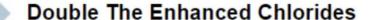
All the Benefits without the Problems





Naturally Occurring Complex Chlorides

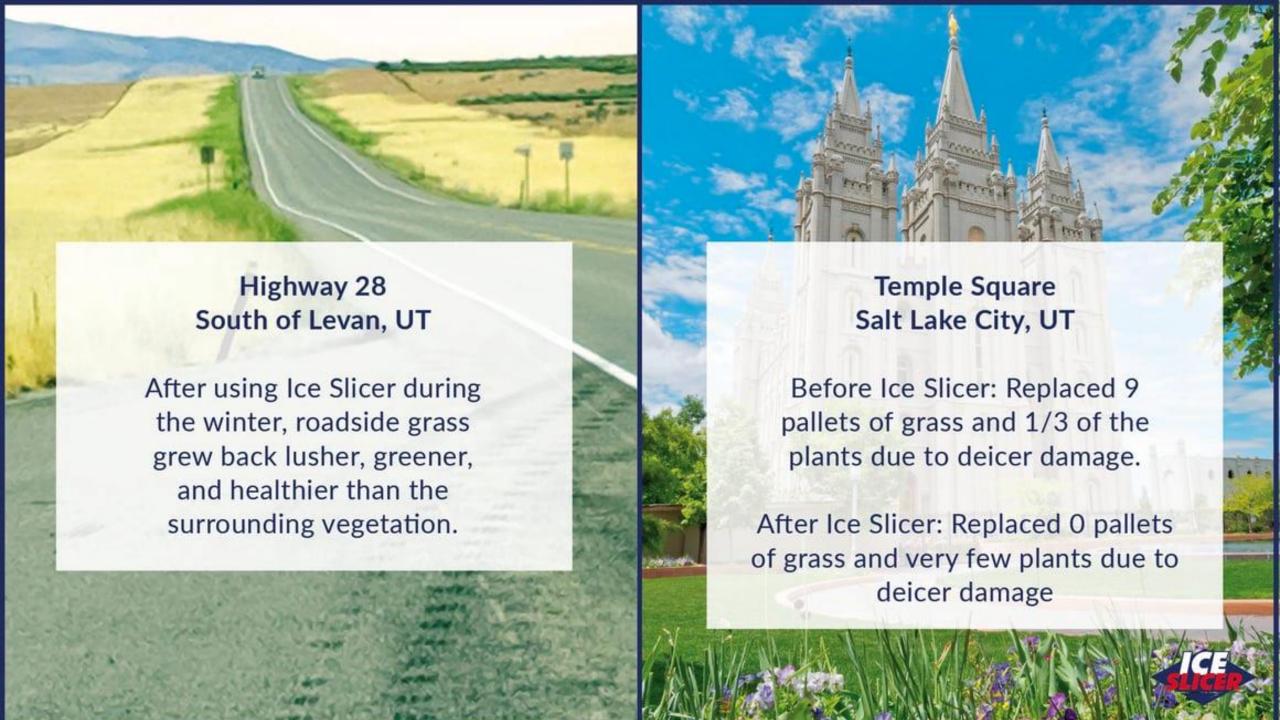
Ice Slicer has the equivalent of over 9 gallons per ton of liquid Calcium Chloride, and over 4 gallons of Magnesium Chloride. Treated salt would need over 14 gallons of liquid to get what Ice Slicer has naturally.











PUBLIC SAFETY

ENVIRONMENTAL SAFETY

Ice Slicer Improves Road Safety And Protects All 4 Environmental Categories



Reduces accidents by restoring traction faster than white salt



Lasts longer on road surface to reduce re-freezing



60+ trace minerals to buffer effects of chlorides and nourish plant life



Eliminates need for dusty road aggregates, reduces PM pollution



Covers more lane miles than white salt and salt/sand mixtures



Natural red hue makes it easier to see where it has been applied



Minimal effect on biochemical O₂ demand, does not clog waterways



No added chemicals and dyes to harm wildlife

Highway 28 outside Levan, UT

ICE SLICER®





Environmentally safe

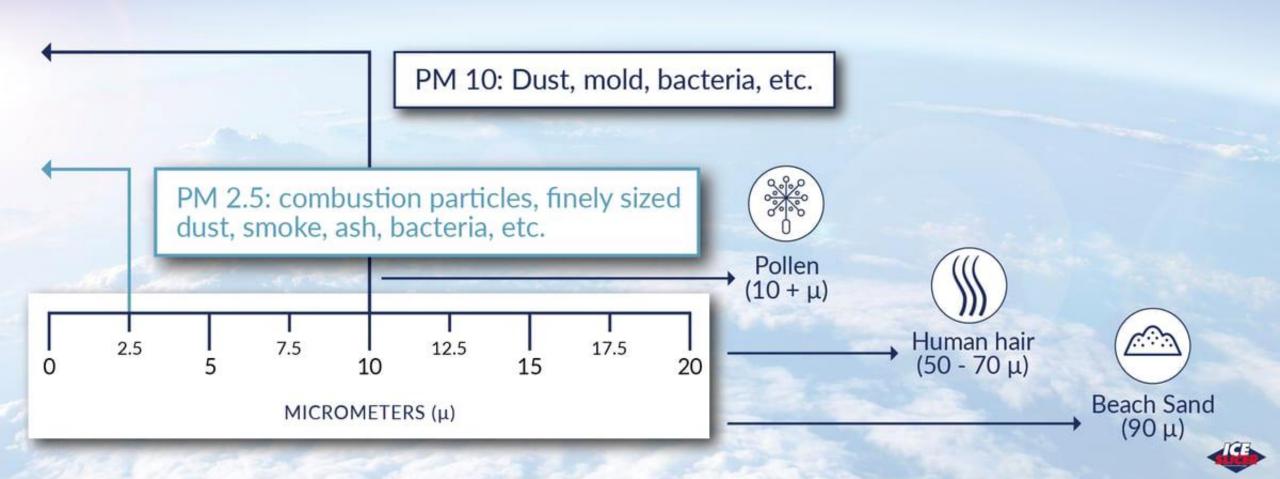


Roadside vegetation after a winter of using Ice Slicer®

PM 2.5 VS PM 10

PARTICULATE MATTER IS MEASURED IN MICROMETERS (µ)

PM 10 = solid an liquid matter that is 10μ or less (includes PM 2.5) PM 2.5 = solid and liquid matter that is 2.5μ or less





Upcoming Topics

- Greenway Site Visit: Wednesday, June 14th
- Next TT: West Section Key Issues
- Action Items
- Final Thoughts





Thank You!