WARREN TOWNSHIP
HIGHWAY DEPARTMENT

BREW HOUSE/PRE-WET SYSTEM
JERRY RUDD
WARREN TOWNSHIP
HIGHWAY COMMISSIONER

PRESENTED BY LARRY DUNN
3-WAY VALVE
SECURITY VALVE
2 POSITION VALVES FOR PROCESS SELECTION. RE-CIRCULATION OR BLENDING
BROWN VALVES FOR ROUGH FLOW ADJUSTMENTS
3 PRODUCT MIXING SYSTEM W/ FLOW METERS

SAMPLE PORT FOR EACH PRODUCT.

FINAL PRODUCT SAMPLE PORT

ANTI-FOAMING INJECTOR
FRESH WATER INLET INTO WATER MANIFOLD
1 ½” HOLES

NON-SCREENED BRINE
NON-SCREENED BRINE
NEW DRAW PIPE. NOTE ELONGATED HOLES.
RE-CIRCULATION INLET

400 MESH BAGS. FINAL PRODUCT DISCHARGE.
FINAL PRODUCT DISCHARGE TO BULK STORAGE TANK
ON/OFF SWITCH TO FILL TRUCKS

FINAL MIX DISCHARGE

TRUCK CONNECTION
QUICK FILL @ 105 GPM
2” VENT REPLACES 1”OEM VENT
FULL WIDTH SPRAY BAR IN TAILGATE SPREADER.
6, 1/8” HOLES SPRAY PRE-WET DIRECTLY @ THE AUGER.
V-BODY SPRAY BAR

UPPER BAR W/4, 1/8” HOLES AIMED TOWARD GATE OPENING.

LOWER BAR W/6, 1/8” HOLES AIMED DOWN
SPREADING 12 TONS OF SALT
GEO MELT SPRAYED @ 5-6 GALS. PER TON
PRE-TREATED SALT WITH GEO MELT @ 5-6 GALLONS PER TON
IMPLEMENTATION

• USE YOUR EXISTING LIQUID APPLICATION EQUIPMENT.

• BUILD A PERMANENT MIXING STATION OR PRE-TREAT BULK SALT.

• CALIBRATION OF EQUIPMENT IS KEY!
CALIBRATION IS ONE OF THE KEYS TO SUCCESS. YOU NEED TO KNOW WHAT YOU ARE PUTTING DOWN.
HOW CAN USING A PRE-WET BENEFIT US?

REDUCTION IN SALT USAGE.

- ELIMINATE/REDUCE THE AMOUNT OF TIMES YOU NEED TO REPEAT APPLICATIONS.
- APPLYING PRE-WET PRIOR TO SALT CONTACTING THE SPINNER, KEEPS THE SALT ON THE ROAD, REDUCING “SALT BOUNCE”. THE MORE SATURATED THE SALT IS, THE LESS BOUNCE IT WILL HAVE.
- REDUCES THE AMOUNT OF SALT DRAINING INTO OUR LAKES AND STREAMS.
- REDUCES ROADSIDE VEGETATION DIE OFF.
BENEFITS TO THE PUBLIC

• IMPROVES PUBLIC SAFETY.
  • MELTING PROCESS STARTS ON CONTACT.
  • LEAVES A RESIDUAL ON THE PAVEMENT.

• SAVES $$$$  
  • REDUCE REPEAT APPLICATIONS.
    • SALT, FUEL, MAINTENANCE, AND WAGES.
    • LESS INFRASTRUCTURE DETERIORATION.

• REDUCES CORROSIVENESS.
  • GEO MELT REDUCES CORROSIVENESS PROPORTIONALLY.
OUR ADDITIVE EXPENSES

• SALT BRINE = 5¢ PER GALLON

• GEO MELT = $1.90 PER GALLON.

• CALCIUM CHLORIDE = 65 ¢ PER GALLON.
WARREN TOWNSHIP MIX

75% SALT BRINE @ 5¢= 4¢
20% GEO MELT @ $1.90= 38¢
 5% CALCIUM CHLORIDE @ 65¢= 03¢
100% =  45¢ PER GALLON.

WARREN TOWNSHIP USES 2-16 GALLONS PER TON. DRIVERS ADJUST PRE WET RATE AND SALT @ LBS/MILE DEPENDING ON CONDITIONS.
QUESTIONS?