

2018 UDOT RESEARCH PROBLEM STATEMENT

*** *Problem statement deadline is Feb. 2, 2018. Submit statements to UTRAC@utah.gov. ****

Title: Alternative Methods for Anti Icing

No. (Office Use): 18.02.02

Written By: Kendall Draney **Organization:** Region 2 Maintenance **Email:** kdraney@utah.gov **Phone:** 8018647876

Submitted By UDOT Employee: Kendall Draney **Email:** kdraney@utah.gov **Phone:** 8018647876

UDOT Champion (if different): Majorie Rasmussen **Email:** mcrasmussen@utah.gov **Phone:** 8019102160

Select ONE Subject Area Materials/Pavements Maintenance Traffic Mgmt/Safety Structures/Geotech
 Preconstruction Planning Perf Mgmt/Data Analytics Public Transportation

1. Describe the problem to be addressed:

Currently salt is the main anti icing agent used by UDOT. Looking for alternatives to limit the amount of issues we have with our MS4 permits and what is going into the environment

2. Write the project objective (25 words or less):

Determine other anti icing methods other states are using and test them in Utah for long term sustainability.

3. Explain why this research is important:

(In response, consider addressing specific UDOT goals, applicability in Utah or other states, etc.)

This research will support us improving our processes to show we are working to improve the environment and meet our MS4 permit and could likely save the department funds.

4. List the major tasks:

1. Research of methods being used for environmental friendly anti icing products to reduce salt usage.
2. Determine test areas for new materials
3. Report Results

5. List the expected deliverables (reports, manual, specification, design method, training, etc.):

1. Report on what other states are using and how they worked in Utah with a cost benefit ratio.

6. Describe how the research results will be implemented:

(In response, consider addressing UDOT leader support, process or standard improvement, etc.)

Based on results udot could start using other methods in fighting the anti icing battle with new material based off the cost benefit ratio.

7. Requested from UDOT: \$50,000
(or UTA for Public Transportation)

Other/Matching Funds: \$

Total Cost: \$

8. Outline the proposed schedule, including start and major event dates: