

## **Water Analysis Team Event**

Road salts (aka sodium chloride) have recently become an area of concern in regards to water quality in the State of Connecticut. Many water sources are affected by road salts and many local communities are becoming increasingly aware of the need to determine what level water quality is being impacted.

With your team, you need to collect and present the following information.

1. Determine three water source locations on your school property or within your local community that you believe may be affected by road salts. Include a site map that plots the locations of your test sites.
2. Test these three source locations and record the salinity levels for a total of at least three trials. A data chart, graph, and analysis of your findings must be included. (Please explain the method you used to test for salinity. Conductivity is one way to measure salinity).
3. Determine what effects on habitat, wildlife, or humans that the levels of salinity that you tested have on the surrounding environment.
4. Provide the local community with appropriate information to determine if the levels of road salts that are being applied are appropriate for maintaining water quality integrity in your community.

Each team may bring the following:

- One standard size poster board, flip chart page or three-fold display board not to exceed 3' by 4'. Put your chapter name and CDE team members on the back of the poster.
- The poster must be submitted when you give your registration form to the event superintendent.
- No electronic materials (Power Point etc.) or any other additional materials may be used for the presentation.
- Presentations must be 6-8 minutes long with 5 minutes allocated for questions from the judges.

Posters and presentations will be graded with National FFA and State FFA grading rubrics. These will be posted on the website.