

## Course Work Activity 3 – Air Pollution

**Work must be titled 'Coursework 3 – Air pollution'. Answer the questions in full and make sure that your explanation is thorough. Be sure to show all your work (calculations); a single numerical answer is not acceptable.**

**Aim:** to explore the concepts of the air pollution and acid rain.

All 50 states plus Puerto Rico and the Virgin Islands have at least one precipitation monitoring site, as part of the National Atmospheric Deposition Program/National trends network. Some sites have been collecting data since the 1970s, and the data are posted on the web.

1. Chose one of the 50 states. How many monitoring sites are in your state?
2. Provide an image of your state showing the labeled monitoring locations.
3. Select one and find out who operates it. What is a typical pH value at the site?
4. What is the trend (you must include a graph) in acidity over the 20 years? (If the site does not have at least a 10 year record chose another).
5. How does the acidity of the precipitation in your state compare with that in another state on the opposite side of the country? Make a prediction and then look up and graph several years worth of data for the two locations. Again look at the trend over time and try to give reasons for the differences you see.

What you must include: 2 graphs