

## Calculating Site Specific Average Exposure Calculating the One-Sided 90% Upper Confidence Limit of the Mean

The Environmental Protection Agency offers a spreadsheet to calculate the 90% upper confidence limit of the arithmetic mean of simple data sets. The 90% UCL is often used to represent the average exposure to contaminants for purposes of calculating risk at a contaminated site.

The UCL spreadsheet software was developed by EPA's Technical Support Center and is used by Oregon Department of Environmental Quality staff. The program is offered by EPA for use without guarantees or support. Generating UCLs does not guarantee that the calculated values will be accepted by DEQ. DEQ may decide to use UCLs other than those generated by ProUCL.

More information about the ProUCL 5.2.00 software can be viewed and downloaded from the USEPA website.

Additional information regarding usage of the UCL on contaminated sites can be found at:

- USEPA ProUCL Fact Sheet
- Technical Support Center for Monitoring and Site Characterization

## **Program name and contacts**

For additional information, please email the <u>LUST info team</u> or call 503-229-5696. Please refer to your assigned Project Manager for project specific information concerning usage of ProUCL calculations on your site.

## Non-discrimination statement

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