

## **Presentation of Water Analysis Laboratory Exercise Results**

### ***Presentation Format***

The presentation will occur in lab the final week of this exercise and should address the points listed below. Each presentation should require no more than 10 to 15 minutes, although shorter presentations are acceptable (and expected). You may present your results in the form of a “chalk-talk” (writing on the white board in lab), or you may create overheads (handwritten are fine). The presentations should be both informal and informational. All group members are expected to participate in the presentation (although your group may elect one person to make the presentation).

### ***Points to Address in the Presentation***

- 1) A statement of the importance of the analyte that you measured in the natural water sample.
- 2) A **brief** explanation of the theory behind the measurements that you made. Include how the measurement results were used to determine the concentration of the analyte.
- 3) A presentation of the results that includes the average, standard deviation and confidence limits at the 95% confidence level. Also include information relevant to any calibration curve or standardization.
- 4) A judgment on your results’ quality. Include a comparison of the results that might be expected for a natural water sample.
- 5) Any errors that might have been made.
- 6) Conclusions that you can make about the water sample based on your results.

### ***Assessment***

Your grade will be determined largely by whether you address these points given above. Less emphasis will be made on how the results are presented, but a sloppy and poorly constructed presentation will receive fewer points. The accuracy of statements made during the presentation will also be an important component of the final grade. Other assessment criteria will include: was a meaningful result obtained, were there flaws in the experimental design or how the analysis was carried out.

One grade will be assigned per group.