IB Group Science Investigation Project Details – 2015/16

Group 1

**Group Members**: Kellig Roncal-Bonfils, Sachi Nidome, Alejandra Castillo, Carlos Valadez, & Lucia Serrano

**Group Project Description**: Perform the chemical analysis of the water samples from Sunbeam Lake. The analysis will include copper, iron, ammonia nitrogen, pH, nitrate nitrogen, and phosphorous.

**Group Resources**: Resources include the necessary materials and methods for detecting the above common water pollutants.

**Group Output**: Group 1 report will include the following:

* Title page including group title, group members, and date.
* Introduction – purpose, general description of activity, why this is of interest or of importance relative to the general project, and brief summary of what the report contains.
* Main body – summary of analytical procedures used for analysis, table of data including observations made during the analysis and concentrations, and possible sources of error.
* Conclusion

**Report Format:** Times New Roman, 12 font, double spaced, minimum two pages. Title Sheet must be a separate sheet. Reference sheet is a separate sheet at the end. Use APA style for references.

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Group 2

**Group Members**: Sabine Castro, Sebastian Padilla, Jennifer Luna, Kamila De La Puerta

**Group Project Description**: Identify the health hazards of each of the following contaminants in public waters: copper, iron, ammonia nitrogen, pH, nitrate nitrogen, and phosphorous. Identify where these contaminants come from in the valley. Identify the possible sources of these contaminants. Focus on any valley sources. Identify the allowable maximum amounts in public waters per EPA guidelines. We are not looking at drinking water or potable water.

**Group Resources**: EPA published guidelines from the internet

**Group Output**: Group 2 report will include the following:

* Title page including group title, group members, and date.
* Introduction – purpose, general description of activity, why this is of interest or of importance relative to the general project, and brief summary of what the report contains.
* Main body – Health hazards of each of the contaminants. Identify where these contaminants come from in the valley. EPA maximum allowable amounts in public waters of each contaminant.
* Conclusion

**Report Format:** Times New Roman, 12 font, double spaced, minimum two pages. Title Sheet must be a separate sheet. Reference sheet is a separate sheet at the end. Use APA style for references.