

Water Quality Study Final Report

Field Ecology

This report is an **individual** assignment. It should be written in the PAST TENSE (because you are writing this report after your project is complete). Please submit your completed report through Google Classroom

Introduction:

This section of your report consists of your “What is the Relationship Between” question along with one or two sentences that add some additional explanatory information.

Results:

This section of your report consists of **BOTH** of your neatly formatted data tables from Excel (copy and paste this table into a Microsoft Word document). Do not include your graphs or any of the other information from your spreadsheet.

Your data tables should be formatted in a professional-looking way and include proper column headings.

Discussion:

In this section of your report, you will use your data and graphs to answer your question. This section will include both of your graphs that show the trend in your data (separately for each day), the R^2 values associated with the trend, and your interpretation of this trend. It will also include a short critique of your study.

Your graphs should be x-y scatterplots with trend lines and R^2 values. They should be neat and professional-looking, with appropriate titles for each graph and axis. Copy and paste your graphs from Excel into your Word document.

For your written analysis, answer the following questions for BOTH of your graphs (in paragraph form; one paragraph for each day of data):

1. What was the answer to your WITRB question: both factors increase (the trend line goes up and to the right); as one factor increases, the other decreases (the trend line goes down and to the right); or none (more-or-less horizontal line)?
2. Based on your R^2 values, does your data really seem to fit the trends? Do you have enough data for the trends to be meaningful (at least five data points)?
3. Supposing the trends you saw are correct, why do you think this relationship exists? In other words, what is causing your factors to show the relationship they show?
4. What are some of the possible sources of error in your study? (You only need to answer this question once as it will apply to both sets of data.)