**Hydrologic Data Analysis**

**Project Report Rubric**

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| **Component** | **Criteria** | **Points** |
| GitHub repository | * Repository contains frequent commits from everyone on the team * Commit messages are informative * Repository contains folders for data (subfolders for raw and processed), code, output, and team documents * Metadata file(s) contains information about data source, data structure, units of measure, and repository compilers | /4 |
| Rationale and Research Questions | * Contains clear context for research topic, with citations * Contains a series of open-ended questions * Hypotheses are associated with questions and are formatted as hypotheses rather than predictions | /3 |
| Dataset Information | * Describes source and content of data * Details the wrangling process from raw to processed data * Contains a table summarizing the dataset structure | /3 |
| Exploratory Analysis | * Flow between text and visualizations is cohesive * Relevant exploratory information is visualized | /4 |
| Analysis | * Flow between text and visualizations is cohesive * Visualizations and statistical tests pertain directly to specific questions and hypotheses * Statistical results are reported in plain language with relevant statistical output in parentheses * Findings are reported clearly in relation to research questions | /4 |
| Visualizations | * Visualizations illustrate data clearly and simply * Graph type is appropriate for the data * Axes are formatted correctly (label, units, super/subscript, combined axes when appropriate) * Font is appropriately sized * Color scales are effective and colorblind accessible | /4 |
| Summary and Conclusions | * Major findings are summarized * Conclusions relate back to the original research context | /2 |
| References | * References are formatted in a consistent fashion * References are cited in text, with a corresponding citation in the reference section | /3 |
| TOTAL |  | /27 |