

Tasks and Timeline

| Week | Task |
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| 3-4 | <p>Literature Review – Research Nile, Sedimentation, and relevant Merowe site specific info (ie. dead storage). Database Creation – Compile all relevant datasets on Nile sedimentation Paper & Presentation – Compose a 3-4 pg. paper and a 15 mins presentation on findings</p> |
| 5-6 | <p>Modeling – <i>How do we model sedimentation at Merowe dam?</i> Review available reservoir programs. Identify key characteristics of modeling. Brainstorm designs or possible alterations of existing programs to fit our needs. Appointment – Schedule an appt. with Ola Madson to talk about sedimentation and modeling.</p> |
| 7-8 | <p>Modeling -- Implement modeling strategy designed. Run case scenarios to determine the following: 1) Effective life of Dam 2) Electricity output of dam over its effective life span 3) Effects of sedimentation up and downstream of dam 4) Effects of build up/lack of on the Aswan dam.</p> |
| 9-10 | <p>Recommendations – <i>Operations and Design manipulations.</i> Creating alterations in the proposed operation or current design of the Merowe dam to 1) extend the life of the dam 2) increase energy output.</p> |
| 11-12 | <p>Final Paper & Presentation</p> |