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# Milwaukee Wet Weather Flow Management System Planning

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## ASSIGNMENT

You are part of an engineering consulting team tasked with recommending a cost-effective expansion plan for the Milwaukee Metropolitan Sewer District's wet weather flow system (including sanitary and combined sewer systems). You will use the MACRO simulation model to evaluate different combinations of alternatives that you select.

To get started, read the attached case study, which includes more detailed instructions. Then download the software and data to run the MACRO model and explore the alternatives. To run the base case version of the model, double click the file RUNMACRO.BAT, enter the input file name *mitchell.cmm*, and click enter. The model will report the simulation time steps and output the files mitfld.DAT, mitfld.out, and mitfld.RPT to the same folder where the input data reside.

Each team is to submit a brief memo summarizing your results and conclusions (~3-4 pages, including tables and graphs), and also prepare a 5-7 minute presentation for the client (you will give the presentation in class). Submittals will be scored and ranked using the rubrics shown below, and the team with the highest overall score will be awarded the project.

Rubrics

	Points	Earned
<b>I) PRESENTATION CONTENT</b>		
1) Selection Criteria Clear, Logical	30	
2) Design Selected Options Clearly Defined Performance Presented	30 20	
<b>II) PRESENTATION SKILLS</b>		
Length, Speed Clarity, Organization Technical Language Usefulness of Visual Aids, etc.	20	
Presentation Subtotal:	100	

<b>III) MEMO CONTENT</b>		
1) Selection Criteria Clear, Logical	20	
2) Design: Selected Options Clearly Defined	20	
Performance Presented	15	
Quality of Design	15	
3) External Research	10	
<b>IV) TECHNICAL PRESENTATION</b>		
1) Length, Organization Salesmanship Technical Language Proof-Read (Grammar, Spelling)	16	
2) Appendix Included	4	
Team Bonus/Penalties		
Memo Total	100	
Team Total (30% Presentation+70% Memo+Bonus):	100	