

2018 WERC Design Contest FAQ

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Task 6: Direct Potable Reuse of Wastewater

Q: What is the main goal of this task?

A: Develop a treatment process to wastewater to make it potable by lowering the organic content from 10 ppm to 0.1 ppm, and reducing TDS from 1200 mg/liter to potable level.

Q: What is the condition of the wastewater provided?

A: Each team will be provided with 5 gallons of Well 1 water that will be treated with 10 ppm of an undefined organic matter. Analysis of Well 1 water can be found at this link <https://www.usbr.gov/research/bgndrf/water.html>

Q: What are you looking for while evaluating my project?

A: Evaluation Criteria can be found [here](#). Specifically, judges will give priority to the quality of the treated water, followed by the total evaluation cost (i.e. was the economic analysis done properly and was it inclusive of all cost factors including the process time for treatment).

Q: Is there an expectation as to the size of the designed system?

A: Wastewater treatment solution(s) should be designed to accommodate a community-based wastewater recycling station. For purposes of this Task, the estimated population for a community (i.e. small town) is 5000