

## **Summary of Engineering and Planning (E&P) Subcommittee February 1, 2018 Meeting for MWPAAC General Meeting on February 28, 2018**

### **Infiltration/Inflow (I/I) Evaluation Program Update**

King County WTD staff summarized progress in 2017. Work plan for 2018 will include developing and using criteria to evaluate the various proposed I/I reduction strategies. The evaluations will be summarized in a technical memorandum, which E&P will report out to full MWPAAC with recommendations. The criteria will be discussed at the March 1 E&P meeting.

### **Treatment Plant Flows and Loadings Study**

King County WTD has retained Brown and Caldwell to assess the flow and the biological loading to each of its treatment plants. This assessment will provide important data for King County WTD's Systemwide Comprehensive Plan and the Puget Sound Nutrient Reduction Implementation Project. The Flows and Loadings Study will:

- Determine current capacity and performance for the major plant processes, when those processes are expected to reach capacity, and how space or other constraints may affect expansion or revision of those processes
- Review solids treatment technologies and the feasibility of implementation at the plants
- Identify potential regulatory changes that may affect treatment requirements
- Review nutrient removal technologies and their applicability at the plants

E&P will receive periodic briefings on the project through the year.

### **Ecology's Puget Sound Nutrient Source Reduction Project**

Portions of Puget Sound experience low dissolved oxygen because high levels of nutrients (primarily nitrogen) cause excessive phytoplankton growth which uses up the dissolved oxygen in the water. Sources of nitrogen include but are not limited to ocean water, nonpoint river inflows, and wastewater treatment plant discharges. Ecology plans to develop a reduction strategy by 2021 with a goal of meeting the state dissolved oxygen standard by 2040. Ecology is creating a numerical model to simulate existing conditions and evaluate the impact of proposed nutrient reduction actions. King County Department of Natural Resources and Parks (DNRP) plans to participate in the technical and policy workgroups. More information about this project is planned for the May E&P meeting.

### **Questions?**

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