

**WHATCOM COUNTY
PUBLIC WORKS DEPARTMENT**

Jon Hutchings
Director



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MEMORANDUM

TO: The Honorable Satpal Singh Sidhu, County Executive
The Honorable Members of the Whatcom County Council

THROUGH: Jon Hutchings, Public Works Director *AH*

FROM: Kraig Olason, Stormwater Program Manager *KO*
Cathy Craver, Senior Planner *CC*

DATE: January 29, 2020

RE: Contract for Services with Brown & Caldwell for Phase 1 of the Lake
Whatcom Total Maximum Daily Load (TMDL) Reassessment

REQUESTED ACTION

Please find attached for your review and approval two (2) originals of a contract for services between Brown & Caldwell and Whatcom County for Phase 1 of the Lake Whatcom TMDL Reassessment.

BACKGROUND AND PURPOSE

Whatcom County is required through Appendix 2 of the Western Washington Phase II Municipal Stormwater Permit to update phosphorus loading capacity targets for the Lake Whatcom TMDL by March 31, 2024. A reassessment of the loading capacity targets entails updating and recalibrating the CE-QUAL-W2 model (that simulates Lake Whatcom's response to the loading of phosphorus), as well as updating phosphorus removal calculated from upgrades on public and private property not previously evaluated.

To effectively complete this project, Public Works has divided the overall project into two phases. Phase 1 will compile all background information needed for the model update and recalibration as part of this contract. These tasks include:

- Development of the Quality Assurance Project Plan (QAPP) for CE-QUAL-W2
- Evaluation of Phosphorus Load Reduction Estimates for:
 - County-owned phosphorus treatment capital facilities
 - Development utilizing adopted phosphorus-limiting regulations, or approved voluntary phosphorus-limiting best management practices
 - Operation and maintenance activities with quantifiable, phosphorus reducing results (e.g. street sweeping)

The QAPP must be submitted to the Department of Ecology no later than March 31, 2020. Once the QAPP has been submitted and approved by the Department of Ecology, Phase 2 of the project will be initiated in early 2021. This phase will complete the updating and calibration of the model, and provide the model runs that will update the phosphorus loading capacity targets.

Brown and Caldwell was chosen through a competitive selection process (RFQ 19-01).

FUNDING AMOUNT AND SOURCE

This contract in the amount of \$193,013 will be funded through the 2020 Stormwater budget (123; \$130,000) and the NPDES budget (10860; \$63,013).

Please contact Cathy Craver at extension 6299, if you have any questions or concerns regarding the terms of this agreement.

Encl.