



# United States Department of the Interior

U.S. Geological Survey

## USGS Washington Water Science Center

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To: Brandi Lubliner, RSMP coordinator  
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From: Richard W. Sheibley  
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Subject: Fourth quarter (Q4) report of USGS activities for RSMP small streams monitoring

Included with this memo are documents required under the Joint Funding Agreement (JFA) between the USGS and Ecology for the RSMP small streams status and trends monitoring. According to the JFA, the USGS is required to submit a short narrative update of the progress of this work during each quarter in 2015 including copies of all field sheets, meter calibration records, and a spreadsheet containing all field measurements in an EIM compatible format. This memo and associated files satisfies the fourth quarter deliverable A2.1 and A3.1 as stated in the JFA dated January 9<sup>th</sup>, 2015. This memo will outline the general activities and known problems with sampling that took place this fourth quarter of 2015.

The USGS has continued to visit 34 sites monthly in Whatcom, Skagit, Snohomish, Pierce, Mason, Thurston, Kitsap, Jefferson, and Clallam Counties during the October 1<sup>st</sup> through December 31<sup>th</sup> 2015 time period. Three sites remained without flow through the month of October; these were 022-OUGA, 032-OUGA, and 054-OUGA. As a result, we did not sample these sites in October. However, by November's sampling run we were back to collecting a full set of 34 samples a month.

We have been able to get a flow measurement at most sites each month for a total of 87 miscellaneous discharge measurements. There were 12 cases where flow was not measureable due to either very low flows (at one site in October), high flows during several big fall storms), or equipment malfunction. We did not encounter any issues with collecting field readings or water quality samples.

During the fourth quarter the USGS finished the WHM sampling. A detailed summary of all WHM activities has been provided in a previous memo. In addition, USGS met with Ecology personnel in December 2015 to reconcile several final data entries for the WHM sites in order to help resolve issues by the end of 2015. This allowed Ecology staff to push final WHM data into the database.

Finally, please note that EIM file for Q4 includes several replicate samples from earlier in the year that were accidentally left out of earlier deliverables. We have double checked all our entries to date and believe all regular and QC data has been submitted.

Please feel free to contact me at any time with questions about this quarterly summary or any other project related issues.

Enclosures