**Workshop Mass Balance and Statistical Results Session**

**Session Focus:**

This session focuses on providing a detailed analysis and breakdown for workshop attendees of the August 2014 data collection effort results. The session will also include a basic “Statistics 101” overview in order to provide a better understanding of the methodologies used in the data analysis work.

**Session Presentation Specifics (Presenter: Dave Dilks – LimnoTech)**

* What types of statistical analyses are being performed for processing the data collected from the sampling events?
* What quality of data is needed to achieve the QAPP objectives and was it achieved?
* Where the environmental sample signals sufficiently separated from the method blank and other sampling related blanks?
* How does this contamination (method and other blanks) impact the usability of the analytical data?
* What is the statistical meaning of “confidence limits” and how was it applied to the synoptic sampling event analytical results?
* What were the results of the river section by river section mass balance analyses?
* Statistically, how confident can we be in using the sampling event results to perform river section by river section mass balances and/or source identification work?

**Session Discussion Topics (Invited Guests and Attendees)**

* Are there criteria for determining the acceptance/usability of data relative to the method blank levels?
* Was the sampling plan design adequate for gathering the information that we set out to acquire?
* In hindsight, is there other information that should have been collected during the synoptic sampling event?
* If the impact of source reduction efforts were to be tracked over time, is the synoptic sampling plan the right approach?
* Beyond the mass balance results, what other observations should be considered as a part of the “where do we go from here” discussions?