



Final Report – WSRF Grant (2023-2438) – September 14, 2023

How the funds were spent

The \$25,000 was spent to hire Lotic Hydrological to assess the condition of the Cooperative Effort Area (CEA) so LBD could update Grand County's Stream Management Plan (SMP). This was done via a watershed assessment or a comprehensive analysis of all the available data (macroinvertebrate and fish populations, sediment levels on aquatic substrate, stream temperature and flows, and water quality parameters related to aquatic health) in the CEA.

More specifically, Lotic completed the following:

- Worked with LBD's Monitoring Subcommittee to calculate summary statistics, analyze trends and causal factors, and make recommendations for additional monitoring.
- Completed an inventory of notable landscape events.
- Assessed geomorphic function by summarizing existing sediment transport/bed composition datasets and trends in embeddedness, rifle stability index, substrate particle size distribution, and suspended sediment volume concentration.
- Assessed aquatic ecosystem condition and trends by considering the spatial differences in the structure and function of macroinvertebrate and fish communities.
- Started to perform an integrative assessment to identify relationships between streamflow, geomorphology, stream health, water quality and aquatic ecology.
- Started to generate interactive map layers for the stakeholder outreach program.

Project updates

All the information is synthesized in the watershed assessment, which will be presented to LBD at the Technical Committee meeting on November 16, 2023. After feedback from LBD, Lotic along with Peak Facilitation, will present the findings of the watershed assessment to the larger stakeholders in early December 2023. The SMP Phase 1 update is well underway and Lotic is scheduled to complete their tasks by March 31, 2024.

As of September 5, Lotic has \$32,000 remaining in their entire contract and still has to complete the following:

- The production of maps, data visualizations, and decision-support tools.
- Completion of the final report (see delivery dates in paragraph above).

Final reporting for SMP Update Phase 1

Final grant reporting for grant award 2022-3104 is expected no later than March 31, 2024.