SDC101: Advanced Understanding and Prediction of Pollutants in Critical Landscapes in Watersheds

Statement of Issues and Justification

This multi-state proposal addresses a critical national need that of providing improved tools for addressing nonpoint sources of water pollution. The proposal outlines objectives key to improving the planning and management of measures addressing NPS.

Related, Current and Previous Work

This section needs some work to improve its coherence. It does not flow well and it ends abruptly without transition to objectives by outlining key knowledge gaps/needs which tie into objectives

Further, there was no mention of the prior multi-state project or description of linkages to it or other multi-state projects.

Additional context was added to cover the previous project and its relationship to the proposed project.

Outputs

The list of outputs do not correlate well with the objectives. In addition to the outputs listed, the project should include the following Outputs 1) improved targeting tools to be an outcome; 2) watershed modeling improvements, 3) increased integration and utilization of new water quality sensors, and 4) as well as the uncertainty

Thank you for your suggestion. We revised outputs accordingly.

Outcomes or Projected Impacts

The 2nd sentence is an output not an outcome (i.e. another important outcome of the projects will be high frequency water quality data from the in situ sensors and survey maps and spectral plume maps from the UAVs).

Key outcomes will be more rapid improvements in monitoring to better utilize new sensor technologies and 2) improved models for not only predicting impacts of BMP implementation, but also better targeting those BMPs, as well as better addressing and communicating uncertainty related to predictions.

Thank you. We revised this section as suggested.

Outreach Plan

The outreach plan does not describe how project results will be delivered to the "ultimate beneficiaries" identified.

Additional context was added to cover the outreach.

Organization/Governance

Does not describe how the project will be managed. Will there be a chair? If so, how will the chair be selected and for what term? More details are needed. Also, regarding the table of membership, there is missing information for many of the participants. In particular, the expertise and "objectives that fit closely to the expertise" of many members of the technical committee are not included.

The project chair will be elected annually by the group with the responsibility of organizing the annual meeting and developing the agenda for the meeting and also be responsible for submission of the annual report. The detailed information regarding project membership will be completed after the project is approved and the University Experiment Station Directors will finalize faculty membership from their respective institutions.