Hinkson Science Team Meeting Minutes

A meeting of the Hinkson Creek Science Team was held on May 3, 2022, from 3:00 PM to 5:00 PM via webex call.

Science Team Members

Name	Organization	Area of Interest or Role	Present/Absent for Meeting
Venessa Madden	U.S. Environmental Protection Agency	Water Chemistry/Water Quality	Present
Paul Blanchard	Missouri Department of Conservation	Hydrology/ Water Quality	Absent
Robert Voss	Missouri Department of Natural Resources	Water Chemistry/Water Quality/CWA Section 303d	Present
John Holmes	Allstate Consultants	Civil/Environmental/Water Resources Engineer	Absent
Robb Jacobson	U.S. Geological Survey	Fluvial Geomorphology/ Hydrology	Present
Dave Michaelson	Missouri Department of Natural Resources	Aquatic Macroinvertebrate Biologist/ Water Quality	Present
Chris Schmitt	Retired/Emeritus U.S. Geological Survey	Aquatic Toxicology	Present
Vacant	N/A	N/A	N/A
Vacant	N/A	N/A	N/A

Other People in Attendance: Nicki Rhinehart, Lynne Hooper, Ted Haeussler, Tim Rielly, Cody Luebbering, Nick Muenks, Sean Zeiger

Minutes

The minutes for April 5, 2022 were approved.

Discussion Items

1. More discussion of recent stormwater samples from Hinkson Creek, focused on chloride and sulfate
    - Sean Zeiger briefly talked about his observations from the sampling events. Ca for some of the samples was assumed elevated above the calibrated range of the analysis equipment.
2. Team Member Discussion

- Request John Holmes send out an updated list of candidates. Areas of expertise mentioned today were Geochemist, hydrologist, Limnologist, BMP and engineering.

3. Other Business
    - Boone County/USGS monitoring update
        - Passive samplers were deployed last week
    - Proposal for conductivity sensor deployment – Lynne Hooper
    - Alba shared via email: Results from the modified hobos deployed at Flat Branch during winter. Jasmine, an undergraduate student at SNR, has been working on modifying and calibrating them to measure specific conductivity instead of light, following Chapin et al. 2014 and Gillman et al. 2017. She saw interesting peaks (> 4 mS/cm) right after road salt applications. The modified sensors seem a promising tool to monitor specific conductivity – they are cheap (~$80) – so we could deploy them on multiple sites. The catch is that the maximum specific conductance they can measure is ~4 mS/cm.
        - Jasmine will be presenting her poster during the School of Natural Resources Research Day Thursday, between 2:30 and 4 pm. The poster will also be up on Friday, May 6, between 9:30 and 1 pm, right before the plenary by Robb Jacobson on "Learning from the Great Floods on the Missouri River: Implications for Resilient River Management". Posters will be featured on the first floor of the Anheuser-Busch Natural Resources Building.
    - Lidar analysis continues, hydro flattening is needed and is time consuming. The analysis could be a good graduate student project.

Next Meeting

The next meeting for the Science Team is currently scheduled from 3 pm to 5pm on June 7, 2022, via web interface call.