



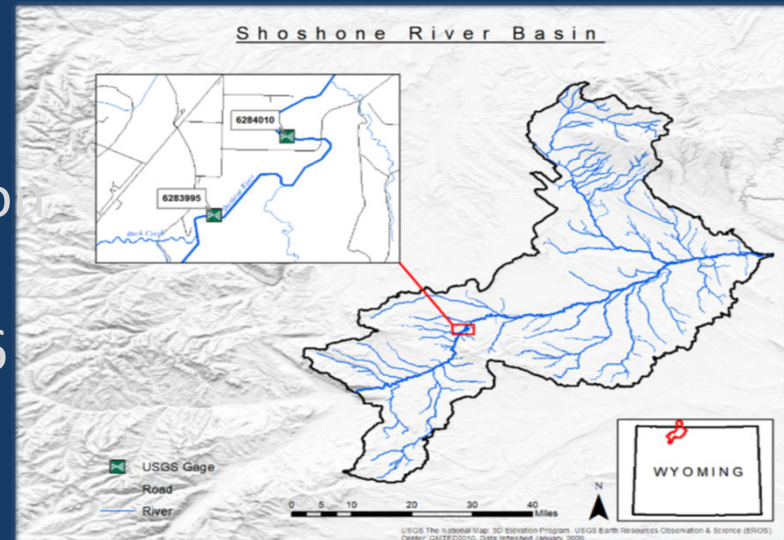
Application of AOBS Method to Provide Continuous Real-Time Information on Suspended-Sediment and Metallic Contaminants in the Shoshone and Clark Fork Rivers in Wyoming and Montana



Study Sites: Wyoming and Montana

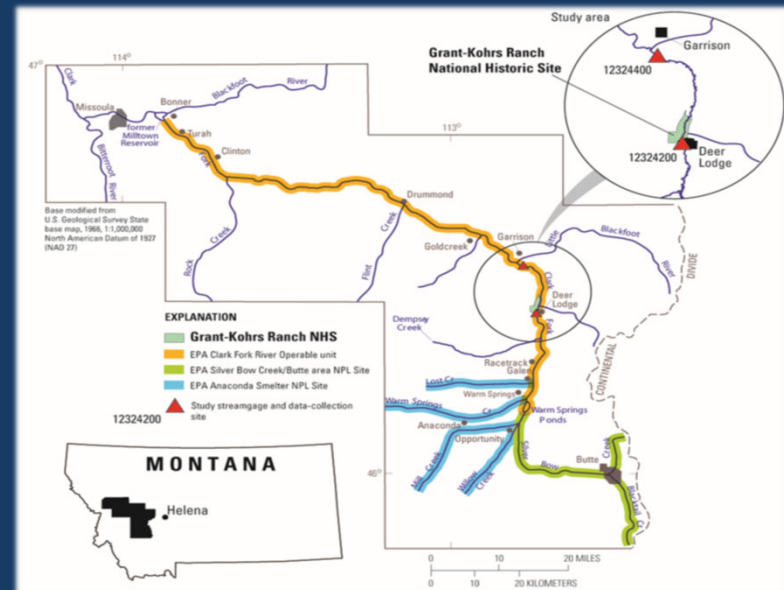
Shoshone River in northern Wyoming

- 2 sites above and below an Irrigation dam
- Sediment spills in 2005, 2007, 2016
- High sediment concentrations



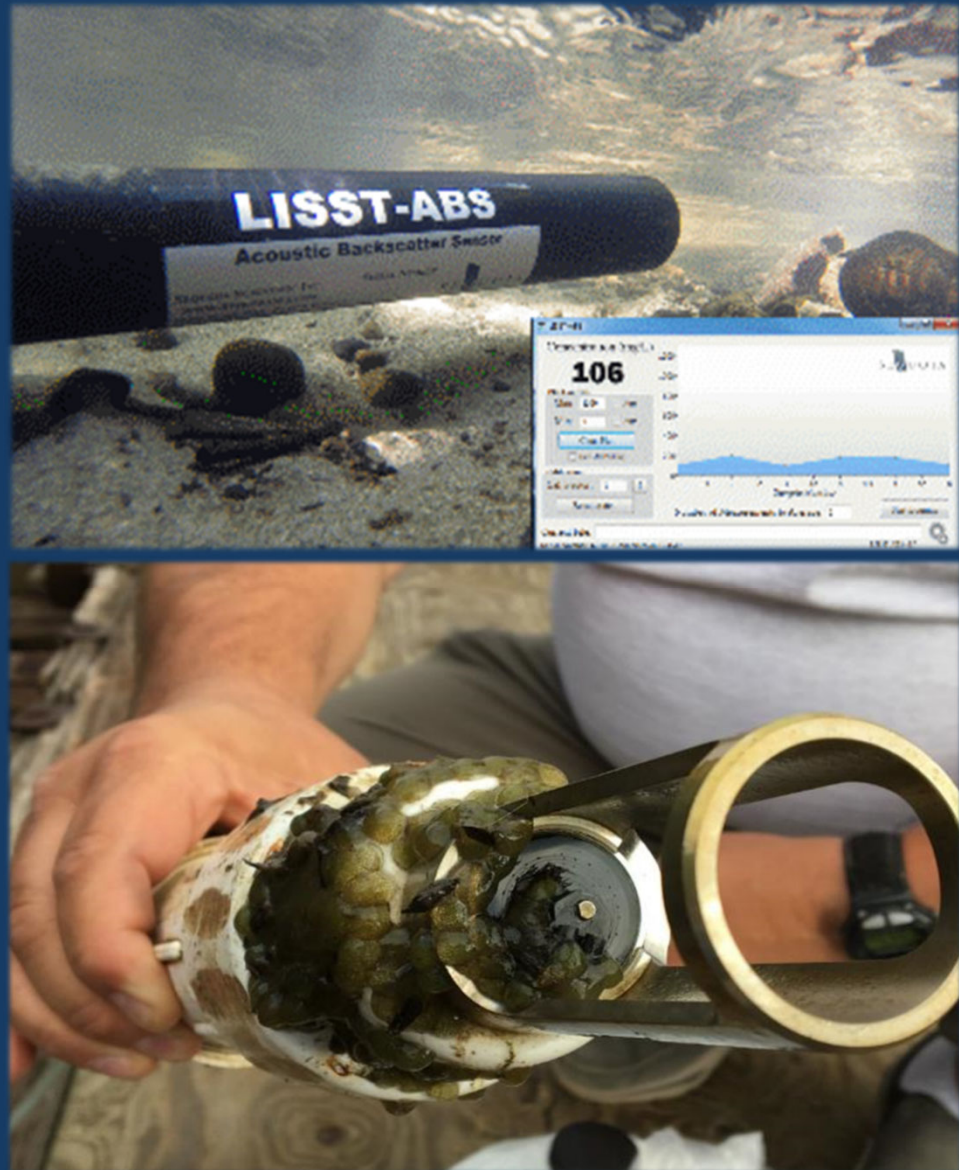
Clark Fork River in southwestern Montana

- Superfund long-term monitoring sites
- Metallic contaminants bind with suspended sediment

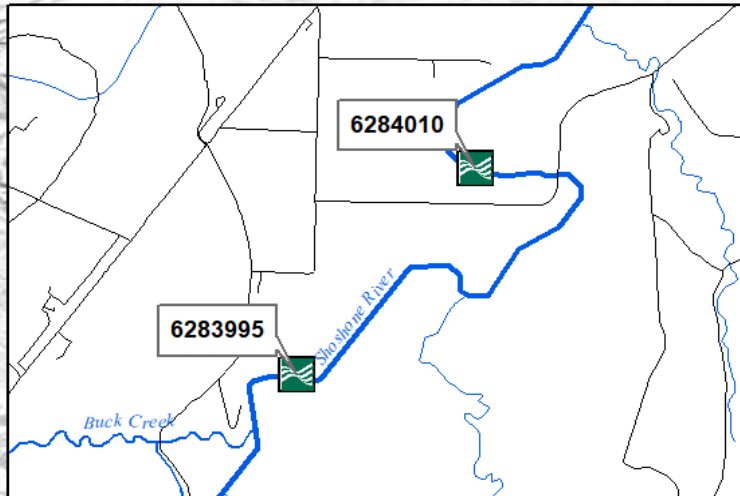





Monitoring equipment

- An acoustic (LISST-ABS) and optical turbidity sensor (NEP 5000) deployed at each location
- Interfaced with a Sutron Satlink3 datalogger
- Data recorded every 15 minutes and transmitted every hour

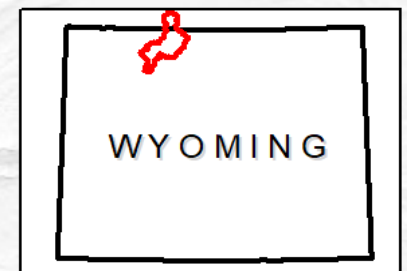


Shoshone River Basin



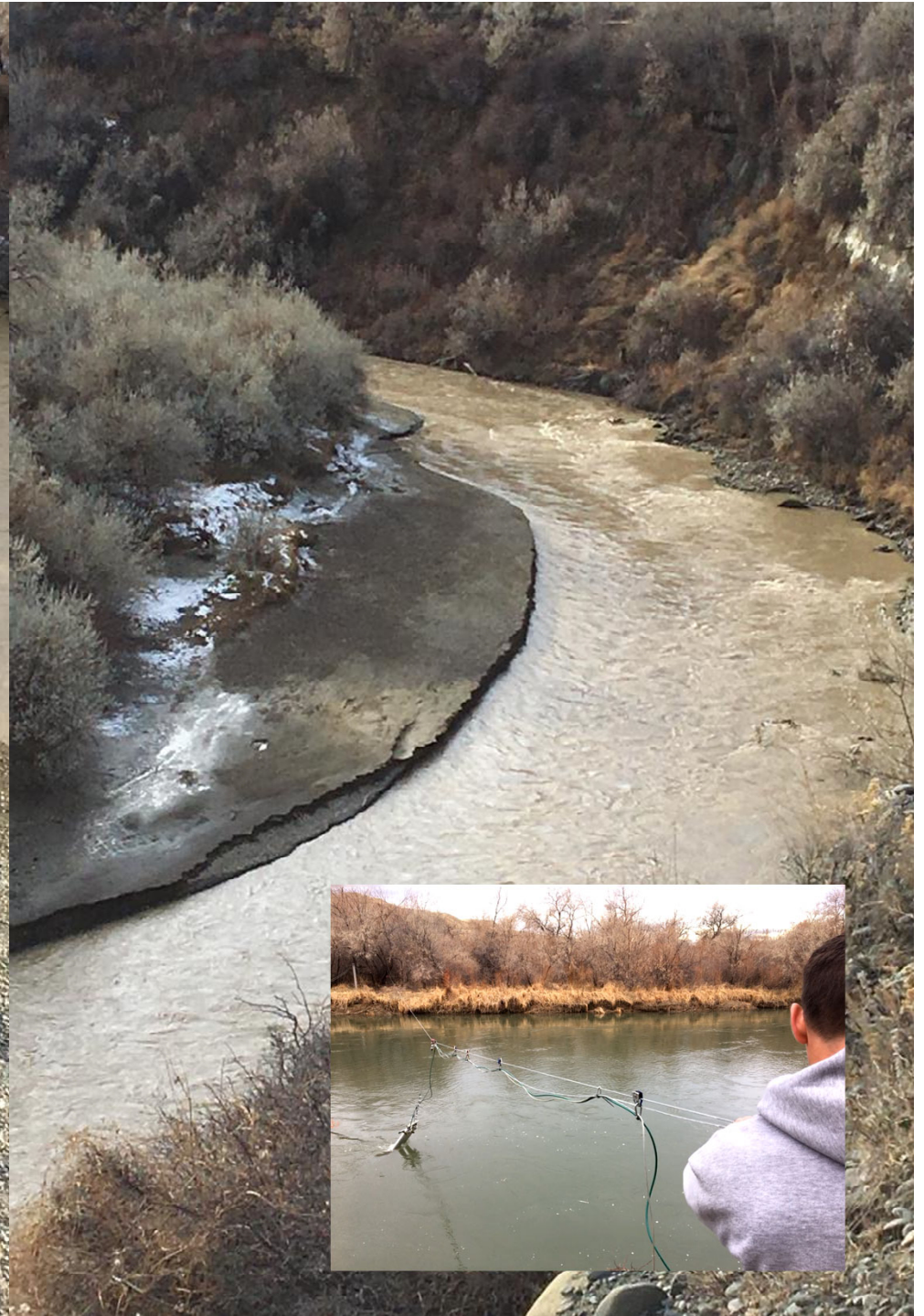
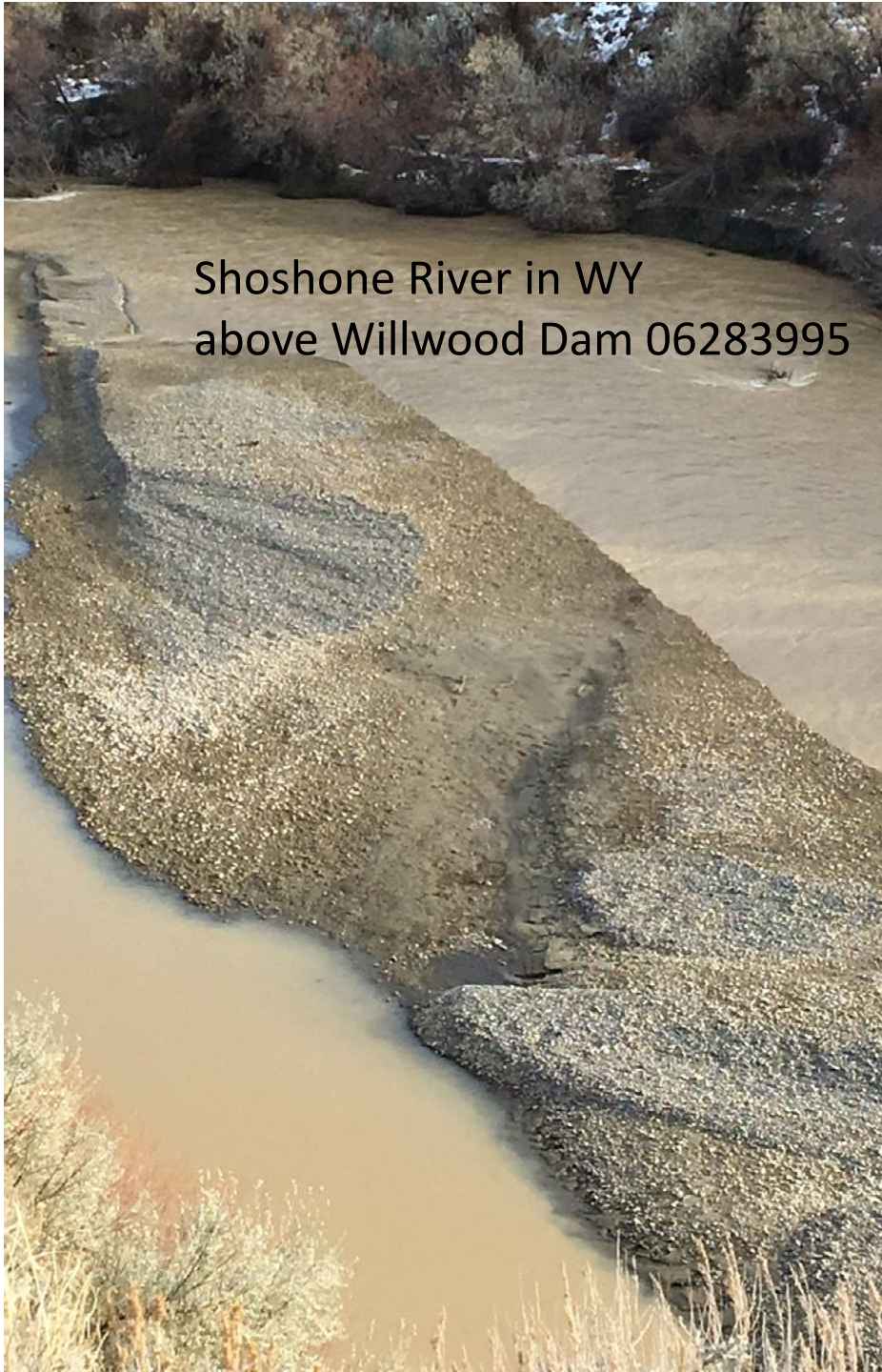
-  USGS Gage
-  Road
-  River

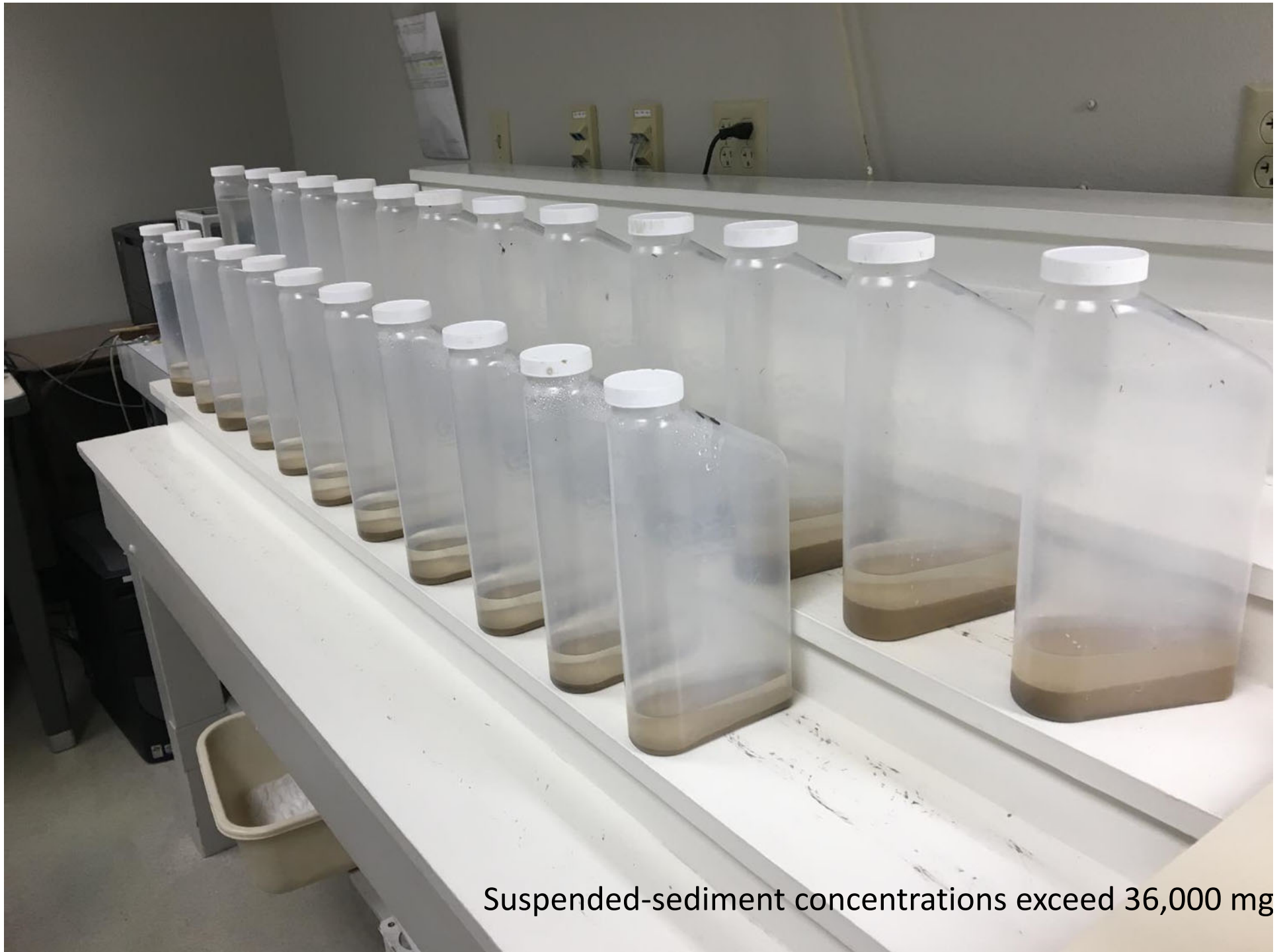
0 5 10 20 30 40 Miles



USGS The National Map: 3D Elevation Program. USGS Earth Resources Observation & Science (EROS)
Center: GMTED2010. Data refreshed January, 2020.

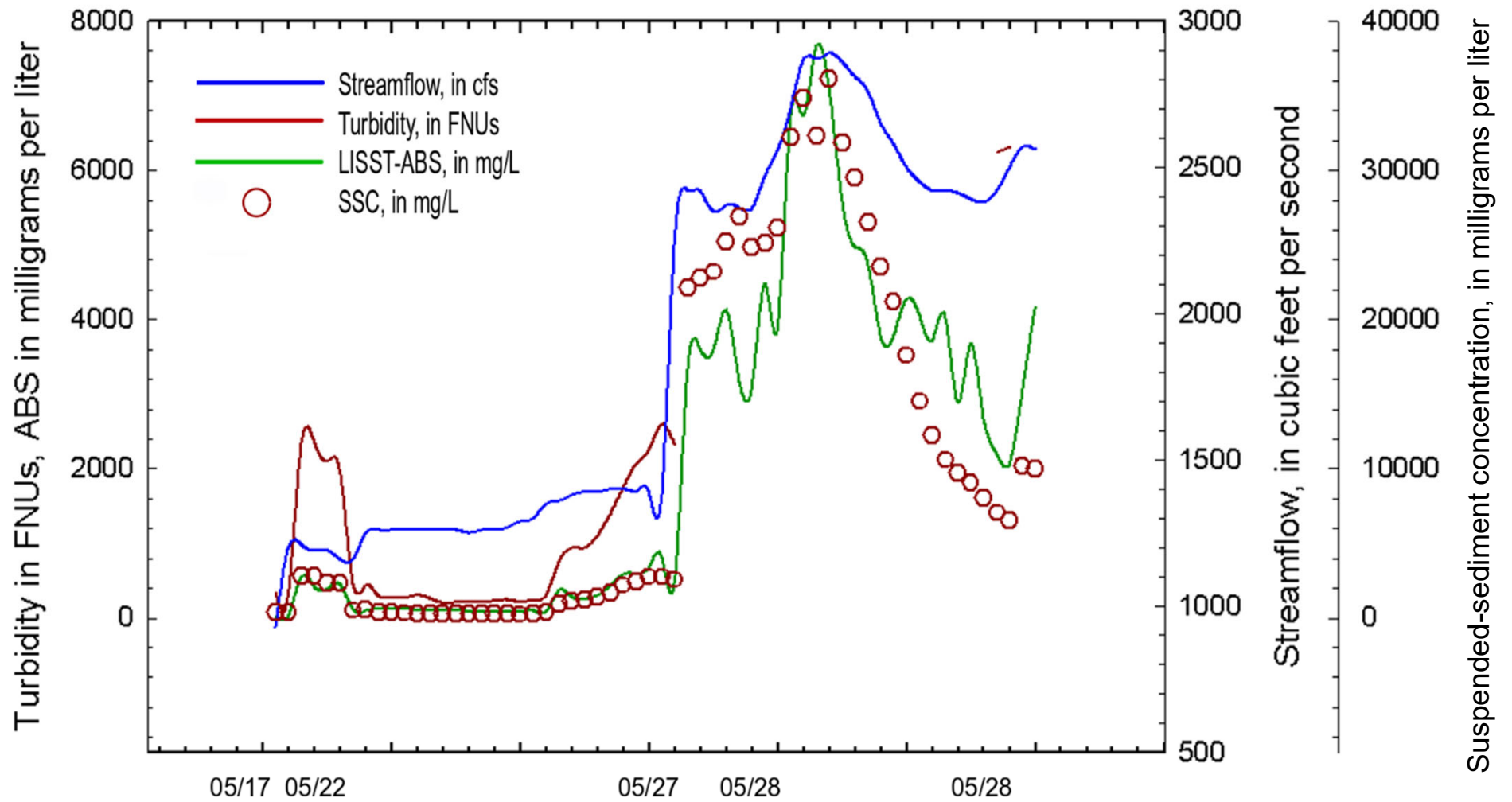
Shoshone River in WY
above Willwood Dam 06283995





Suspended-sediment concentrations exceed 36,000 mg

Shoshone River abv Willwood Dam 06283995



Shoshone River in WY
below Willwood Dam 06284010

