





## USGS ACTIVITY:

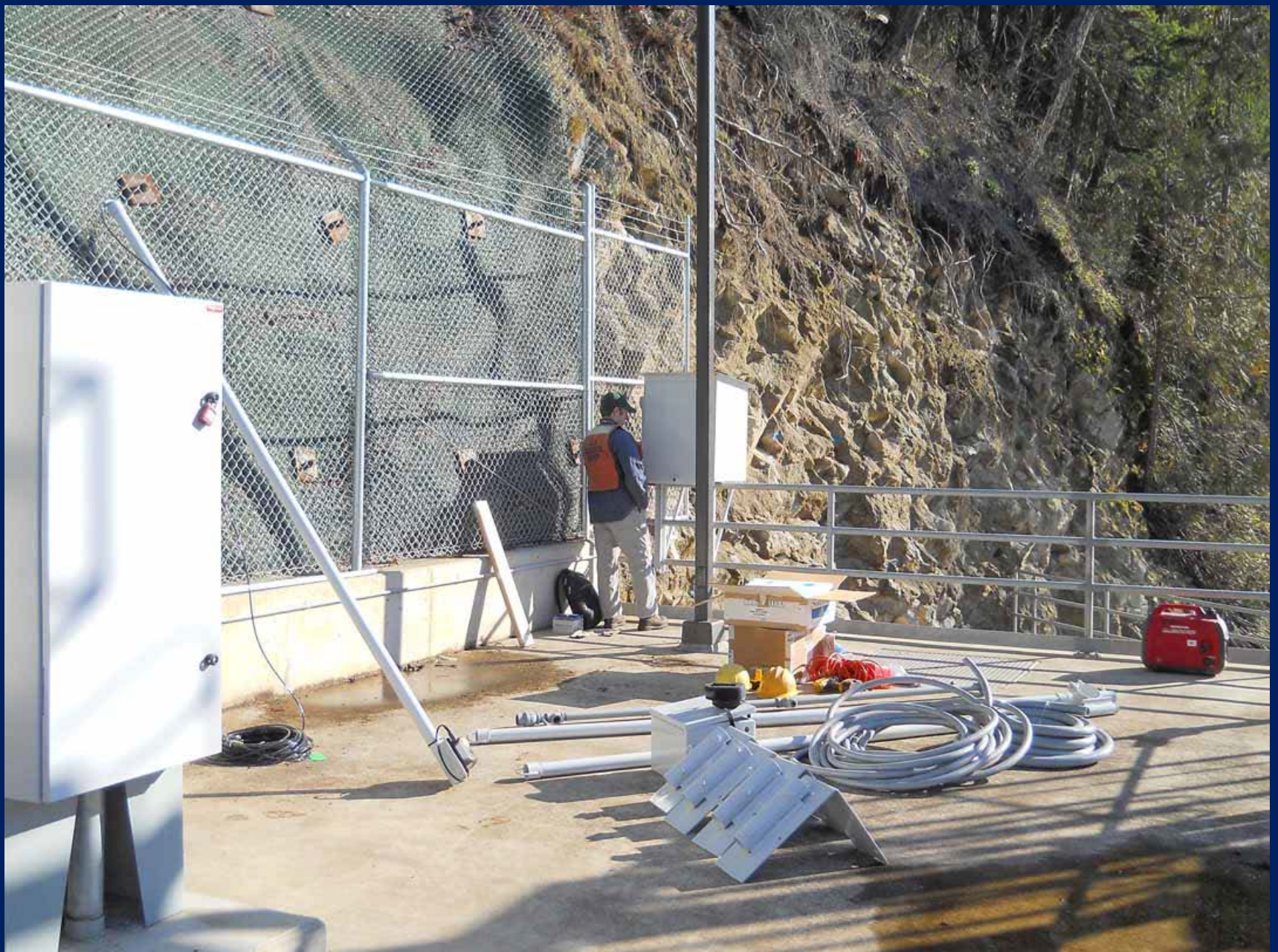
Estimating suspended-sediment load continuously for 2 years using turbidity\*, hydroacoustic, and LISST instruments, all proxy technologies for suspended-sediment concentration

\*Turbidity measurements funded by National Park Service



**Hydroacoustic Instrument Installation**





**Sediment-Gage Installation**



## Sediment Monitoring

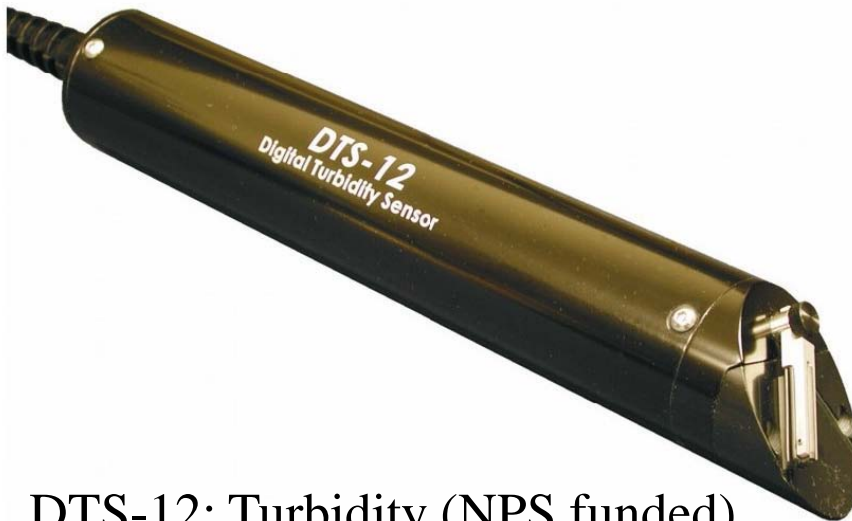
USGS station no. 12046260



ADVM



LISST-25



DTS-12; Turbidity (NPS funded)



A large concrete bridge with a bike path underneath, spanning a river in a forested area. The bridge has multiple concrete pillars supporting its structure. The bike path is a narrow, elevated walkway with a metal railing, running parallel to the river. The river is a deep blue-green color, and the surrounding area is covered in dense green trees and vegetation. In the foreground, there is a gravelly area with some dry leaves and a small pile of debris. To the right, a parking lot with several cars is visible.

**Bike path from where  
suspended-sediment samples  
are collected**



## Measuring Sediment Transport during Floods:

*one of the bigger project  
challenges*



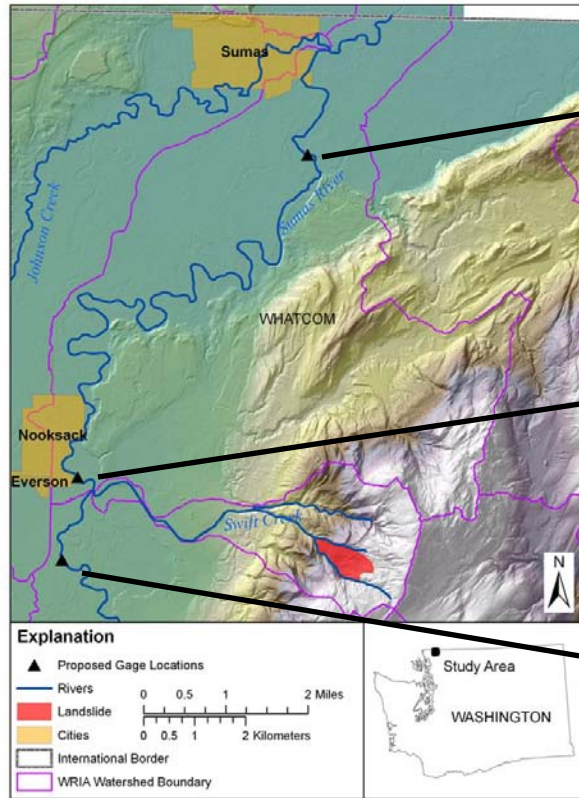




USGS gaging station #12214350  
Sumas River at South Pass Road at Nooksack, WA



# Sediment Monitoring with Surrogate Sediment Instruments



[Telegraph Road]

DTS-12

ISCO



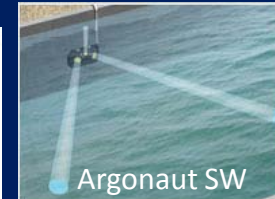
[South Pass Road]

DTS-12

Analite 180

Argonaut SW

ISCO



[Massey Road]

DTS-12



*Preliminary results subject to change*



