

Stream Gaging and Sediment Transport

San Geronimo Creek, Marin County, California



Velocity meter used for flow measurements

Components

- Updating instrumentation and technology over time, providing one of the most complete gaging and sediment records in the North Bay
- Calibrating electronic data to manual measurements of stage and flow
- Safely measuring flow and sediment measurements at very high-flow conditions



Staff plate reference datum



Background

San Geronimo Creek supports runs of steelhead trout and coho salmon. The Marin Municipal Watershed District uses much of the Lagunitas Creek watershed as protected watershed for drinking water supply, and wants to make those uses as compatible as possible with a healthy fishery. Balance Hydrologics assists the MMWD by supplying data and analysis on creek flows, sediment transport and how those factors interact with salmonid habitat and how conditions change from year to year.



Suspended-sediment sampling at high flow

Project Team Accomplishments:

- Long-term record of streamflow and sediment transport
- On-line real-time data availability