Balance Hydrologics, Inc.®

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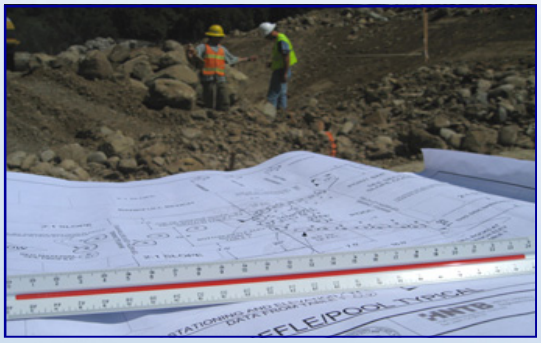
Restoration Design

Stevens Creek Restoration at Blackberry Farm Park, Cupertino, California



Field engineering with contractor

Background

Balance Hydrologics led the development of stream restoration and enhancement PS&E documents for Stevens Creek at Blackberry Farms in Cupertino, California. Plan development began in 2004, and included a 2-year multi-stakeholder planning, technical analysis and design process. Technical analysis focused on sediment transport, channel stability, bed-renovating flows, and a geomorphic assessment of present and past stream geometries. Construction began in June 2008 and was completed 3 weeks ahead of schedule in October 2008. Post-construction monitoring is now underway.

Restoration: Components

- Relocation of 1,300 feet of channel, with close integration of revegetation and regrading designs
- Construction of riffle-pool sequences, including large wood & boulder structures
- Removal of one diversion dam and three other salmonid passage barriers and impediments
- Re-use of several thousands yards of rip-rap and cut materials
- Stabilization of slopes up to 25 feet high using innovative biotechnical approaches
- Creation of off-channel, oxbow salmonid habitat from remnants of a former channel

Construction of new stream

Restored channel with habitat structure

Project Team Accomplishments:

- Obtaining grant funds
- CEQA review
- Permitting
- Full PS&E development
- Bid support
- Construction/field engineering support and oversight
- Completing construction on budget, in time