



## Grant Summary Report

### By the Monterey Bay Salmon and Trout Project

Report by Mathers Rowley, Director MBSTP

October 14, 2014

**\$10,000 Award for:**

#### **Full-Body Sediment Trap – Design, Acquisition, Installation, & Commissioning**

This project encountered several delays due to engineering and design issues and the need to accumulate enough funding for a robust successful project. The project is fully funded now, and most of the equipment has been purchased. The installation is in progress. The system will be fully functional by the end of November 2014.

The funds from the Newman Foundation were dedicated to purchasing a sediment catch flume-trough that will allow coarse sediments to settle out of the hatchery influent water before it passes into the filters. This will avoid catastrophic clogging of the four sand filters by the pulses of suspended, and bed-load sediment, or small debris flows that come down Big Creek during high flow events. The catchment flume will help ensure a constant supply of clean water to the fish. The vessel for sediment catchment cost was \$5,520 (see attached).

Water from the coarse sediment catch flume is pumped through four 48" filters by a ten horsepower pump. The filtered water then passes through three U/V light sterilizers for the purpose of killing fungal spores and any other pathogens that may be present.

The balance of the funds granted by the Trustees and Advisors of the Nell Newman Foundation were spent on the filters that are part of the sediment trapping system, designed and manufactured by ATEC Systems Inc. of Hollister CA. (see attachment for price quote and statement of account)

The new system is expected to alleviate fungal infections by Saprolegnia sp. This fungus has been plaguing the hatchery-held fish for several years now and many mortalities have resulted.



Other major funders of this project were the Rose Foundation (\$29,700) and NOAA Fisheries (\$15,000). MBSTP will be responsible for any cost over-run and has budgeted for it. Excepting the plumbing installation, grant funding has paid for all equipment and installation. We anticipate that the plumbing will cost about \$3,000.

MBSTP is deeply grateful to the Nell Newman Foundation for helping to support this project! Thank you!



Sediment Catch Flume awaiting installation at the MBSTP Kingfisher Flats Hatchery.

