



December 16, 2013

Jeffrey Anderson
U.S. Fish & Wildlife Service
43655 Kalifornsky Beach Road
Soldotna, AK 99669

Dear Jeff,

This letter is to serve as Cook Inletkeeper's final financial and performance report for the project: *Stream Temperature Monitoring Network (F12AC01078)* for the period of July 1, 2013 through September 30, 2013.

During this reporting period, Cook Inletkeeper's Project Manager worked with an analysis team to complete the 5-year data analysis and produced a final synthesis report, which is included with this performance report. Significant findings from this project include that based on an assessment of current stream temperature profiles and sensitivities in Cook Inlet streams, average July water temperature may have sub-lethal effects on salmon including poor egg and fry incubation survival, low juvenile growth rates, and pre-spawning mortality in 27% of the streams by 2099. Thermal impacts will be more moderate in 23% of the streams, with no significant impacts to salmon health for 50% of the streams.

This thermal vulnerability framework can be a useful tool to the Kenai Peninsula Fish Habitat Partnership to prioritize future research, protection and restoration activities. For example, the nine "high sensitivity" Kenai Peninsula Borough streams could be prioritized for additional research at the reach-level to identify critical cool water refugia that might be important to help salmon move up and down an otherwise warm channel. Restoring riparian areas in these systems might improve temperature profiles by increasing stream shading. For the 15 "low sensitivity" Kenai Peninsula Borough streams, resolving fish passage issues in these systems and protecting key habitats through conservation easements could help maintain fish populations for both the short and long term.

The Stream Temperature Monitoring Network has proven to be a successful collaborative regional monitoring effort to collect comparable stream temperature data across the Cook Inlet basin. Consistently coordinated by Cook Inletkeeper, with four other Kenai Peninsula Fish Habitat Partners involved, the Temperature Network is a great example of a partnership of federal and state agencies, and community-based organizations and volunteers accomplishing more together, and more effectively, than any group could working alone. This regional network can be a template for coordination, data management and analysis to facilitate expanded water temperature monitoring throughout Alaska.

Cook Inletkeeper has not drawn any funds this reporting period. Please see the attached final SF425 and Expenditure Summary Report. In addition, Cook Inletkeeper has contributed a total of \$21,700 (\$6,607 this reporting period) in match support through cash and in-kind contributions. Please let me know if you have any questions about this report or project tasks.

Sincerely,

A handwritten signature in black ink that reads "Sue Mauger". The signature is fluid and cursive, with a large, sweeping flourish at the end.

Sue Mauger
Project Officer



Expenditure Summary Report

Stream Temperature Monitoring Network
(F12AC01078)

Grant Award \$21,700

Prior Drawdowns \$21,700

Total Current Period Draws \$ 0

Balance \$ 0

No drawdowns were taken during the reporting period July 1, 2013 – September 30, 2013.

