

Cook Inlet Aquaculture - Trail Lakes Hatchery**FY2013 Request: \$1,025,000****Reference No: 52164**

AP/AL: Appropriation
Category: Development
Location: Richardson Highway

Project Type: Renewal and Replacement
Recipient: Cook Inlet Aquaculture
House District: Richardson/Glenn Highways (HD 12)

Impact House District: Richardson/Glenn Highways (HD 12)

Contact: Jo Ellen Hanrahan

Estimated Project Dates: 07/01/2012 - 06/30/2017 **Contact Phone:** (907)465-2506

Brief Summary and Statement of Need:

Trail Lakes Hatchery is a state-owned hatchery built in 1982. This project will fund water supply system, power generation, weatherization and energy efficiency upgrades along with improvements to meet compliance deficiencies.

Funding:	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Gen Fund	\$1,025,000						\$1,025,000
Total:	\$1,025,000	\$0	\$0	\$0	\$0	\$0	\$1,025,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:

SLA 11, Ch 5, pg 75, ln 3 - \$865,000 GF

Project Description/Justification:

Trail Lakes Hatchery is owned by the State of Alaska and operated by Cook Inlet Aquaculture Association (CIAA) through contract with the Alaska Department of Fish and Game (ADF&G). The hatchery is located at Trail Lakes near the community of Moose Pass, Alaska and is permitted for sockeye and coho salmon releases at selected sites throughout the Cook Inlet drainage. Built in 1982 the hatchery is overdue for much needed repairs and maintenance. These improvements will serve to update the facility to improve performance and efficiency.

Replace Backup Generator and Controls

All hatcheries require a back-up power supply to assure continuous pump operations and water supply for rearing fish. The Trail Lakes Hatchery back-up generator is 30 years old. A new generator that will run the necessary well pumps is required. The existing generator will be maintained to ensure that hatchery production is safe from any future power outages.

Replace Process Water Boilers

All fish released from Trail Lakes Hatchery are thermally marked for identification and assessment. The Trail Lakes Hatchery process water boilers are 30 years old and require extensive maintenance. New, efficient boilers will ensure future hatchery production is correctly marked and Trail Lakes

Hatchery programs are properly evaluated. This project is being partially completed through the FY2011 Legislative Grant.

Resurface/Replace Raceways

The raceways used in Trail Lakes Hatchery for rearing are preformed concrete. The raceways are porous, hard to clean and very difficult to sterilize. Microbes and pathogens adhere to the surface, and algae growth is exacerbated. Coating the raceways with a polyurethane/epoxy material will mean the raceway surfaces can be sealed, cleaned and disinfected more efficiently. This project is being partially completed through the FY2011 Legislative Grant.

Rebuild Effluent Drum Filters

The drum filters are original equipment and need to be rebuilt. Sprockets, bearings, gears, chains and screens need to be replaced to efficiently treat hatchery effluent before it is discharged.

Replace Sanitary Wastewater Treatment System

The sanitary wastewater treatment system is original equipment, and its capacity is exceeded during the summer when visitor use rises. The system needs to be replaced with an appropriately sized system.

Depurate Influent (Ultraviolet Light System)

Trail Lakes Hatchery was constructed without adequate well (influent water) protection resulting in sporadic viral contamination and loss of fish. CIAA has spent over \$200,000 to correct this construction oversight. To assure Trail Lakes Hatchery fish are protected from future influent water contamination, the Alaska Department of Fish and Game has asked CIAA to install and operate a UV influent water sterilization system. This project is being partially completed through the FY2011 Legislative Grant.

Update Alarm System

Alarm systems are critical to hatchery operations. The Trail Lakes Hatchery alarm system is outdated and needs to be replaced with updated more reliable technology.

Replace Heating System

The Trail Lakes Hatchery heating system is outdated and needs to be replaced with an energy efficient system.