

Prince William Sound Aquaculture - Main Bay Hatchery

FY2013 Request: \$864,000

Reference No: 52161

AP/AL: Allocation
Category: Development
Location: Main Bay

Project Type: Renewal and Replacement
Recipient: Prince William Sound Aquaculture
House District: Cordova/Southeast Islands (HD 5)

Impact House District: Cordova/Southeast Islands (HD 5)

Contact: Jo Ellen Hanrahan

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

Appropriation: State Owned Hatcheries - Upgrades and Maintenance

Brief Summary and Statement of Need:

Prince William Sound Aquaculture - Main Bay

Main Bay Hatchery is a state-owned hatchery built in 1981. This project will fund weatherization and energy efficiency, hydro-power, and water supply upgrades.

Funding:	<u>FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>Total</u>
Gen Fund	\$864,000						\$864,000
Total:	\$864,000	\$0	\$0	\$0	\$0	\$0	\$864,000

<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	0
Totals:	0	0

Additional Information / Prior Funding History:

SLA 11, Ch 5, pg 76, ln 12 - \$2,113,000 GF

Project Description/Justification:

This project will help pay for replacement of piping in the water supply and fishway system; power and fuel system renovation, weatherization and energy efficiency upgrades.

Water Supply and Fishway System

In 1996, piping separating at one of the sectional connections due to an anchor failure caused by contraction of the pip in extreme cold weather. The event resulted in 95% of the sockeye salmon production and approximately \$8 million in ex-vessel value to the commercial common salmon fishery. The sectionals were reinforced shortly after the incident, but this was intended as a short term repair. The piping needs replacement to ensure against another failure. Plans call for replacement piping fabricated from high-density polyethylene (HDPE) pipe which is more durable in cold temperatures and contain minimal mechanical connections and is less susceptible to damage.

Power and Fuel System Renovation

The existing hydroelectric system installed in 1981 is functional and currently in operation. It utilizes the water collection and conveyance that supplies the fish culture operations and has generated 100% of the facility's energy needs for the last 30 years. During an inspection, engineers found heavy

rust and extreme pitting in the exterior of the turbine scroll case and outlet piping. The inspection revealed leakage at the wicket gate and main turbine shaft. Recommendation called for replacement with a new energy efficient hydroelectric equipment package which would include new turbines, generator, switchgear and controls, hydraulics and flywheel.

Weatherization and Energy Efficiency Upgrades

Three of the residential housing units require a variety of weatherization and energy efficiency upgrades. This particular area experiences higher than average precipitation and snowfall in Prince William Sound and the units are in need of upgrade from their original construction in 1981. Some of the main renovation includes replacement of T1-11 siding, windows and exterior doors, enhanced insulation in the attic and exterior walls, roof replacement repair dry-rot and extend roof eaves over exterior doors.