

Shishmaref Beach Erosion**FY2010 Request: \$3,000,000****Reference No: 47847****AP/AL:** Appropriation**Category:** Natural Resources**Location:** Shishmaref**House District:** Arctic (HD 40)**Estimated Project Dates:** 07/01/2009 - 06/30/2014**Project Type:** Climate Change / Erosion**Recipient:** Community of Shishmaref**Contact:** Amanda Ryder**Contact Phone:** (907)465-2506**Brief Summary and Statement of Need:**

This funding provides \$3,000,000 for a grant to the community of Shishmaref for phase III of a IV phase project. This multi phase project is critical to protect this community's vital structures from erosion and coastal storm surges. Phase III will protect two key parts of the sanitation utility; the washeteria and sewage lagoons. This project contributes to the Department's mission of promoting a healthy economy and strong communities by protecting vital structures of the community.

Funding:	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	Total
Gen Fund	\$3,000,000						\$3,000,000
Total:	\$3,000,000	\$0	\$0	\$0	\$0	\$0	\$3,000,000

<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:

DCCED has identified over \$4,000,000 of state funds that have been appropriated to various erosion control projects in this community since 1984. The grant recipients include the City of Shishmaref as well as Kawerak Incorporated. Full information and references for these grants as well as the funding for various federal projects are being compiled and will be added to documentation as soon as available.

Project Description/Justification:

Background: Shishmaref is a traditional Inupiat Eskimo village located in Northwest Alaska on Sarichef Island in the Chukchi Sea, just north of the Bering Strait. In the past, in the early fall the ocean and lagoon waters would freeze over so when the fall storms hit, the beach and shoreline were protected by a natural barrier of ice. In recent years, the water does not freeze until late in the fall or early winter leaving the beach and shoreline unprotected from the sea. Every fall the storms are causing substantial erosion and damage to the community infrastructure.

Project Description: Phases I and II of the project have been completed. These phases added 1,375 feet of ocean side rock revetment to 1,000 feet of existing seawall. Phase III will construct 550 feet of ocean side rock revetment to protect the northeastern edge of the community including the sewage lagoons and washeteria. This funding in conjunction with \$4,750,000 from other sources will complete phase III of a IV phase shoreline erosion protection project. Phase IV will protect the southwest portion of the community.

Justification: A least-cost analysis of alternatives and their benefits was conducted in 2007 by the US Army Corps of Engineers. The rock revetment was identified as the least cost alternative over the 15-year planning horizon. The estimated erosion cost without this project is \$45,753,000 over the 15-year period.

Phase III is expected to cost \$7,750,000. The remaining money needed to complete this phase of the project is expected to be appropriated by the, US Army Corp of Engineers in FFY10 directly to the community of Shishmaref.