

# **Shishmaref Coastal Erosion**



Condition of Improvements  
31 December 2019  
**Shishmaref Coastal Erosion, Alaska**  
(CWIS No. 086131, 086259, 180892)

**Authorization** (a) Section 117 of Division C, Public Law 108-447 provides, “Notwithstanding any other provision of law, the Secretary of the Army is authorized to carry out, at full Federal expense, structural and non-structural projects for storm damage prevention and reduction, coastal erosion, and ice and glacial damage in Alaska, including relocation of affected communities and construction of replacement facilities.” (b) Section 117 of PL 111-8 repeals P.L. 108-447 in 2009. However, construction is allowed to continue until completion. In addition to the federal revetment, several sections were built by the City of Shishmaref and Kawerak Inc., as shown on the attached drawing.

**Table 1**

<b>Existing Project</b>	<b>Length ft.</b>
Section 14 (2005)	230
Section 117 Revetment Phase 1 (2007-2008)	625
Section 117 Revetment Phase 2 (2009)	700

**Progress of Work**

2003	Kawerak Inc. constructed 500 feet of rock revetment.
2005	The Corps used the Section 14 authority to construct 230 feet of rock revetment and the City of Shishmaref constructed 350 feet of rock revetment
2007-08	The Corps Section 117 authority was used to construct the Phase 1 rock revetment of 625 feet.
2009	The Corps Section 117 authority was used to construct the Phase 2 rock revetment of 750 feet.
2011	The inspection found the revetments to be in good condition and recommended annual monitoring. An inspection after the November storm found the Corps revetments in good condition. Repairs at the western end of the Kawerak revetment were recommended.

## Progress of Work

2012	The City of Shishmaref constructed 300 feet of rock revetment. An inspection found the revetments to be in good condition.
2013	An inspection found the revetments to be in good condition with no significant changes from previous years.
2014	An inspection found the revetments to be in good condition with no significant changes from previous years.
2015	An inspection found the revetments to be in good condition and annual monitoring is recommended. The inspection report recommends damage to the City revetment sections be repaired.
2016	An inspection found the revetments to be in good condition with no significant changes from previous years.
2017	An inspection found the revetments to be in good condition with no significant changes from previous years.
2019	An inspection found the revetments to be in good condition with no significant changes from previous years.

**Table 2 Cost to Date**

Project	Description	Cost \$
086131	CG Appropriations	5,000
	CG Costs	5,000
086259	CG Appropriations	7,500
	CG Costs	7,500
180892	CG Appropriations	1,000,000
	CG Costs	1,000,000
	CG Contributed Appropriations	744,151
	CG Contributed Costs	744,151

**Table 3 Range of Tides in feet**

Tide Station	Mean Range	Diurnal Range	Extreme Range
946 9854 Shishmaref Inlet 2, AK	0.76	1.03	-

*NOAA Publication Date: 05/28/2004*

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Rock revetment , July 2019



Rock revetment , July 2019