

Unalaska Harbor

Condition of Improvements
31 December 2019
Unalaska (Dutch Harbor), Alaska
(CWIS No. 013597)

Authorization In Section 314 of Ronald W. Reagan National Defense Authorization Act of 2005, PL 108-375, October 28, 2004. SEC. 314. SMALL BOAT HARBOR, UNALASKA, ALASKA. The Secretary of the Army shall carry out the small boat harbor project in Unalaska, Alaska, at a total estimated cost of \$23,200,000, with an estimated Federal cost of \$11,500,000 and an estimated non-Federal cost of \$11,700,000, substantially in accordance with the plans, and subject to the conditions, recommended in a final report of the Chief of Engineers if a favorable final report of the Chief for the project is completed no later than December 31, 2004.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Entrance Channel (irregular shape)	225	131	-20
Maneuvering Channel	1095	131	-18
Rubble-mound Breakwater	642	Varies	
North Floating Breakwater	499		
East Floating Breakwater	899		
Basin (Local)	347	233	-18

Project Usage Commercial fishing is the primary industry of Unalaska (Dutch Harbor). The new small boat harbor will be used as a base for both local and transient commercial fishing vessels. It was reported by NOAA to have the nation's highest seafood landings by pound (Coastal Management News, volume 3, issue 2, April 2009).

Progress of Work

- 2009 The project was completed including a rock breakwater, boat launch ramp, and dredging of about 28,241 cubic yards. The new small boat harbor with an upland disposal area had a Federal cost of \$10,923,978
- 2010 A condition survey was conducted in late June 2010.

Progress of Work

2011	Fourteen floating breakwater modules were fabricated and staged for transit to the project site. The modules are constructed of post-tensioned concrete with rigid polystyrene foam fill and are 21 feet wide, 98 feet 5 inches long, and 5 feet 11 inches tall. The modules have a freeboard of 1 foot 1 ¾ inches. The concrete anchor blocks for the floating breakwaters were placed and surveyed
2012	The East floating breakwater, consisting of 9 modules, and the North floating breakwater, consisting of 5 modules, was installed. Modules are separated by two, 1 foot 8 inch thick rubber arch fenders, one on each side. A pair of longitudinal anchor chains (attached at the end module of each floating breakwater and pulling towards the middle), provide some force to keep the modules pulled together and there are two chains at each gap that limit the range of movement
2014	A condition survey was conducted in June.
2019	A condition survey was conducted in May.

Table 2 Cost to Date

Project	Description	Cost \$
013597	GI PED Appropriations	1,160,403
	GI PED Costs	1,160,402
	GI PED Contributed Appropriations	386,801
	GI PED Contributed Costs	386,801
	CG ARRA Appropriations	11,748,343
	CG ARRA Costs	11,748,343
	CG Appropriations	10,228,000
	CG Costs	9,839,518
	CG Contributed Appropriations	4,263,099
	CG Contributed Costs	3,895,027

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
946 2620 Unalaska AK	2.39	3.60	9.48

NOAA Publication Date: 06/17/2019

Controlling Depth Project depth is effectively available throughout the Federal portion of the project, May 2019. The controlling depth for the entrance channel is -18.0 feet located near the SE corner along the toe of the breakwater and -42.5 feet in the maneuvering channel located in the SW near corner 4.

Unalaska Harbor, Unalaska, Alaska



Oblique of Unalaska Harbor, August 2014



Unalaska Harbor, August 2014