

Port Lions Harbor

Condition of Improvements
31 December 2022
Port Lions Harbor, Alaska
(CWIS No. 087202, 087744, 010599)

Authorization Rivers and Harbors Act, 14 July 1960, under Section 107 (Public Law 86-645) as amended and approved by the Office of the Chief of Engineers, 9 April 1979, provides for a north breakwater 600 feet long and a stub breakwater 170 feet long to protect a 10 acre mooring basin. Water Resources Development Act, 8 November 2007, under Section 1001 (Public Law 110-114) provides for a 700-foot-long detached rubble mound breakwater located northeast of the existing main breakwater and a 125-foot extension of the existing main breakwater.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Entrance Channel	1030	150	-14
Basin	10 acres		-14
Main (West) Breakwater	850		
East Breakwater	700		
Stub Breakwater	170		
3 Floating Breakwaters	244		

Project Usage The 10-acre mooring basin provides for the needs of the present fleet, both local and transient, as well as for anticipated fleet development throughout the life of the project to a capacity of 125 boats.

Progress of Work

1977	The original design, approved in December, called for two breakwaters of 500 and 650 feet, an entrance channel 150 by 750 feet, and a 12-acre mooring basin. Local interests request a review of alternate plans to find a less costly solution.
1979	The project is modified to its current dimensions and approved by the Chief of Engineers.
1981	Construction begins in March and is completed in July. A severe winter storm in November 1981 causes extensive damage to the main breakwater.

Progress of Work

1982	A new contract is awarded in October to increase the length, elevation, and strength of the damaged breakwater, and to perform minor dredging in the entrance channel.
1983	Reconstruction of the breakwater begins in mid-February and is completed at the end of July. Dredging of the entrance channel is completed in the fall of 1983.
2002	A condition survey is conducted in July. The harbor master reports that storms from the northeast are destroying the float system. The project is under study by the Corps.
2005	A project condition survey was conducted in June with a single beam system.
2009	CEPD required NOAA Tidal Determination performed at harbor.
2010	USACE Comprehensive Evaluation of Project Datums (CEPD) Compliance report completed and recorded in July.
2014	A project condition survey was conducted in September.
2016	Plans and specifications completed for a new 700-foot detached East Breakwater and a 125-foot extension to the Main Breakwater to close the gap between the Main Breakwater and the shoreline.
2017	Construction of a new 700-foot East Breakwater and a 125-foot extension of the Main breakwater begins in June and is completed in August.
2020	A project condition survey is completed in July.

Table 2 Cost to Date

Project	Description	Cost \$
010599	GI PED Appropriations	722,087
	GI PED Costs	143,056
087202	CG Appropriation	1,950,993
	CG Costs	1,950,993
	CG Contributed	1,880,155
	CG Contributed Costs	1,880,155
	O&M Appropriation	1,596,577
	O&M Costs	1,596,577
087744	CG Appropriation	12,000
	CG Costs	12,000

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 7391 Port Lions, Kodiak Island AK	7.31	9.36	-

NOAA Publication Date: 06/29/2018

Controlling Depth In July 2020, the channel has a controlling depth of -11.2 feet MLLW near the toe of the main breakwater.

Port Lions Harbor, Port Lions, Alaska

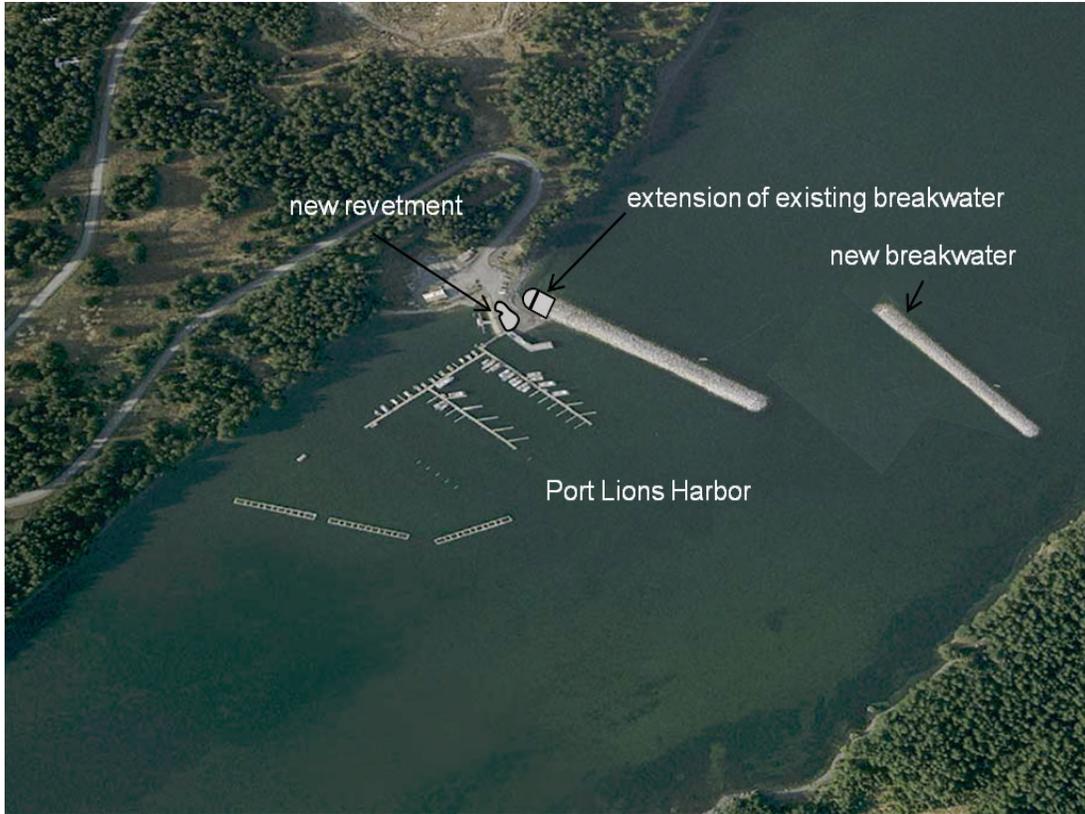


Northwest oblique of Port Lions Harbor, 24 September 2014.



Port Lions Harbor, October 2020

Port Lions Harbor, Port Lions, Alaska



2015 Rendering Port Lions Harbor Navigation Improvements



New Breakwater, October 2020