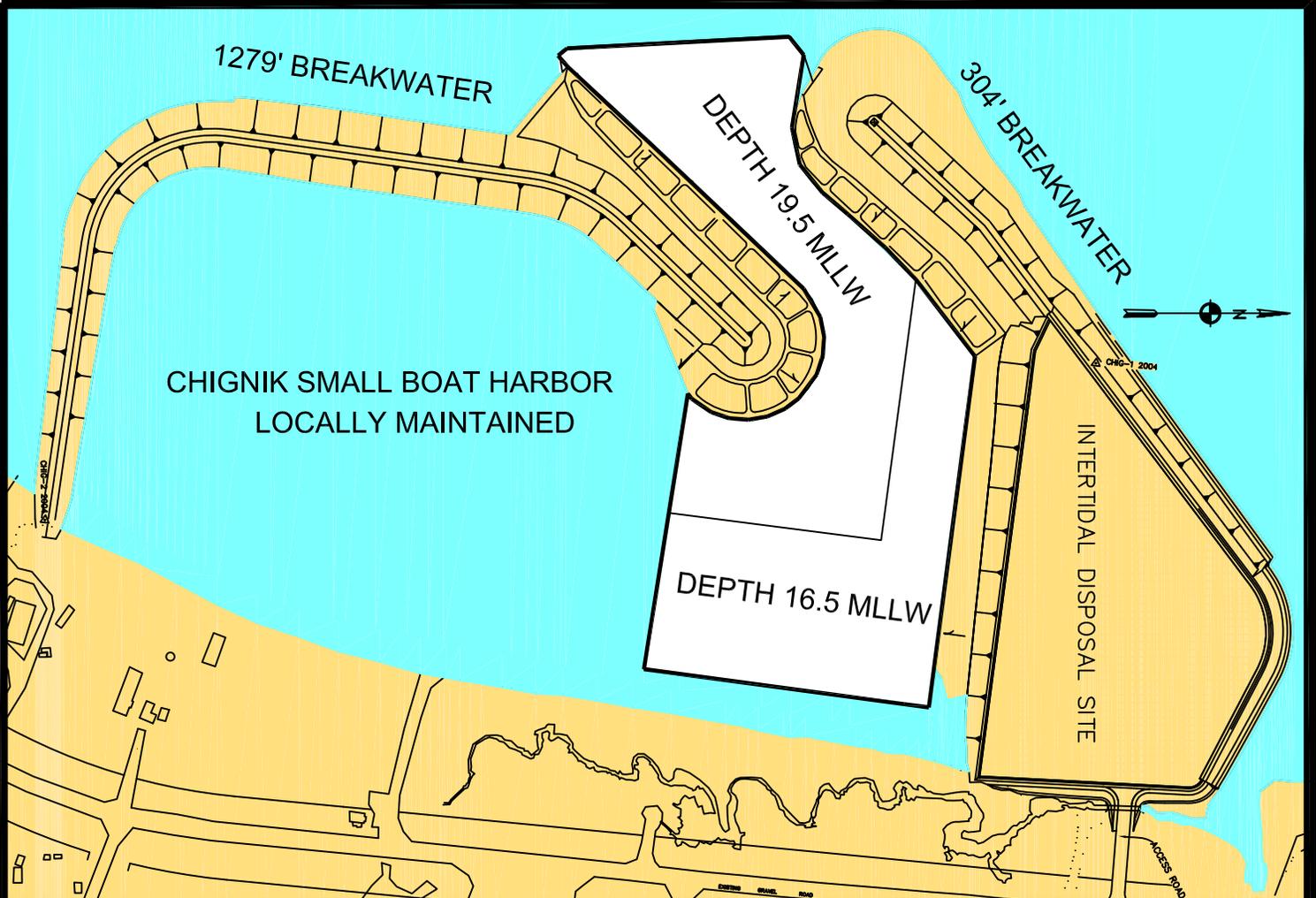
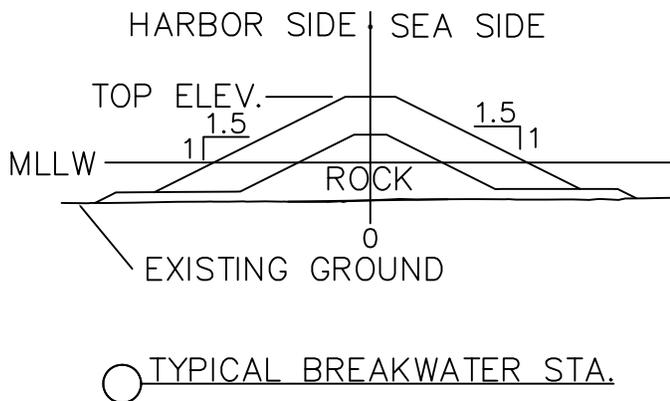


# Chignik Harbor



VICINITY MAP



# CHIGNIK, AK

REVISED: 2011

Lat: 56°17'45.09"N  
Long: 158°24'04.24"W



Condition of Improvements  
30 December 2014  
**Chignik Harbor, Alaska**  
(CWIS No. 010375, 087214, 087394)

**Authorization** WRDA 96, PL 104-303 Section 101(b) PROJECTS SUBJECT TO REPORT—  
The following projects for water resource development and conservation and other purposes are authorized to be carried out by the Secretary substantially in accordance with the plans, and subject to the conditions, recommended in a final report (or in the case of the project described in paragraph (10), a Detailed Project Report) of the Corps of Engineers, if the report is completed no later than December 31, 1996: (1) CHIGNIK, ALASKA—The project for navigation, Chignik, Alaska, at a total cost of \$10,365,000, with an estimated Federal cost of \$4,282,000 and an estimated non-Federal cost of \$6,083,000.

**Table 1**

<b>Existing Project</b>	<b>Length ft.</b>	<b>Width ft.</b>	<b>Depth ft.</b>
Entrance Channel	650	100	-19.5
Basin (irregular shape)	372	341	-16.5
North Breakwater	304		
South Breakwater	1279		

**Project Usage** The new small boat harbor will be used as a base for commercial fishing which is the primary industry of Chignik, Alaska.

**Progress of Work**

2009	About 134,700 cubic yards of material was dredged and placed upland for erosion control in creation of a new boat harbor. The new harbor has 2 breakwaters, the north breakwater being about 304' long and the south breakwater being about 1279' long. The federal cost was \$6,155,447.
2010	Dredged the entrance channel and mooring basins. Armored slope protection was applied to basin slopes. A Post Dredge Survey of the harbor was conducted after construction was completed in September 2010.
2011	Rock deterioration on the 1,279 foot-long breakwater was documented.
2012	A monitoring plan for assessing the breakwater rock conditions was developed.

**Table 2 Cost to Date**

<b>Project</b>	<b>Description</b>	<b>Cost \$</b>
10375	GI PED Appropriation	162,890
	GI PED Costs	162,890
	CG Appropriation	14,400,929
	CG Costs	14,400,929
	CG Contributed Appropriation	5,203,998
	CG Contributed Costs	4,788,595
	O&M Appropriation	5,000
	O&M Costs	0
87214	CG Appropriation	5,000
	CG Costs	5,000
87394	CG Appropriation	932,499
	CG Costs	932499

**Table 3 Range of Tides in feet**

<b>Tide Station</b>	<b>Mean Range</b>	<b>Diurnal Range</b>	<b>Extreme Range</b>
945 8917 Chignik AK	7.95	10.15	-

**Controlling Depth** For the Entrance Channel a depth of -19.9 feet MLLW controls and for the Basin a depth of -17.1 feet MLLW controls, July 2010.

## **Maintenance Dredging Supplement**

### **A. Sampling and Testing**

1. One five-part composite sample was collected in the small boat harbor, September 2009; all material was classified as fine grained silts and sands.
2. Chemical analysis was conducted using (7) tests methods as outlined with results below:

**Table 4 Chemical Testing**

<b>Method</b>	<b>Chemical analysis</b>	<b>Results</b>
8260B	Volatile Organic Compounds	ND (None detected)
8270C-SIM	Polynuclear Aromatic Hydrocarbons	ND or below cleanup levels
8082	Polychlorinated Biphenyls	ND
8081	Pesticides	ND
Series 6000-7000's	(10) RCRA Metals	(10) of (10) detected; all below cleanup levels
9060	Total Organic Carbon	2
A2540G	Total Solids	58.60%

*Results were screened against Puget Sound Dredge Disposal Analysis (PSSDA).*

# Chignik Harbor, Chignik, Alaska



Chignik Harbor, 2011.



Chignik Harbor, 26 June 2013.

# Chignik Harbor, Chignik, Alaska



Armor stone degradation during a breakwater inspection, 26 June 2013.



Aerial of Chignik Harbor, 2014