

## VICINITY MAP

UPLANDS  
PARKING/  
STAGING AREA

APPROACH  
TRESTLE

MAIN DOCK

MOORING  
DOLPHIN, TYP.

M/V  
TUSTUMENA

SITKALIDAK STRAIT



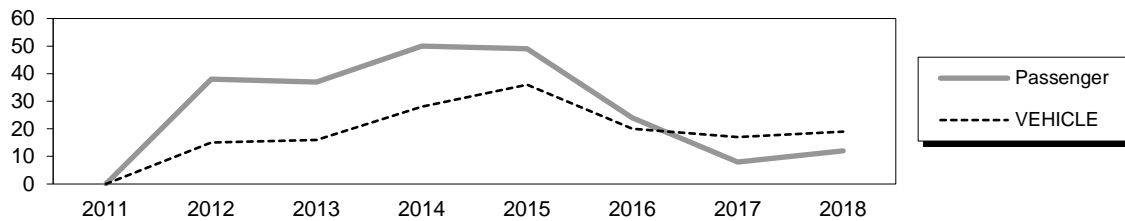
## GENERAL LAYOUT OLD HARBOR

## Old Harbor City Dock

**Owner:** City of Old Harbor

**Contact:** Allen Christiansen, Harbormaster – 907-575-6614

**Terminal Description:** A new multi-use dock facility was recently constructed by the City of Old Harbor on Kodiak Island (50 miles southwest of City of Kodiak). The M/V Tustumena provided ferry service on four occasions in 2012. The frequency of future scheduled service is unknown as Old Harbor is out of the way of the normal route that the ferry takes from Kodiak to Chignik. The facility consists of a 55'x102' pile-supported dock with 3 fender panels, 3 mooring dolphins with access to the dock by steel catwalks, and an 18'x 280' pile-supported approach trestle connected to shore. The dock was built in 2012 to replace the aging timber freight dock. This is a multi-purpose facility utilized by other vessels. AMHS is not in control of operation or maintenance of this facility. The most recent annual passenger and vehicle traffic at Old Harbor is shown below.



The most recent above water survey and fracture critical inspection were completed on August 11, 2018. The underwater survey occurred on July 11, 2014.

Vessels	
Name	Berthing, Alignment
Tustumena	Port

Tidal Data (MLLW=0.0 feet)	
Highest Observed	11
MHHW	-
MHW	-
Lowest Observed	-3

Terminal Building
This facility does not have a terminal building.

Generator & Building
This facility does not have a generator on-site.

Utilities @ Dock	
Water:	N/A
Fuel:	Yes

Uplands	
Description:	50' x 70' gravel area
Short-Term Parking:	N/A
Long-Term Parking:	N/A
Staging Area:	N/A

Dock - #186	
Type:	55'x102' dock & 18'x280' approach trestle (prestressed concrete panels)
Year Built:	2012
Dock Support:	30" & 36" dia. steel pipe piles w/ steel w-beam pile caps
Pile Coating:	Galvanizing
Anodes:	Yes, welded directly to piling
Lighting:	Light poles on dock & trestle
Condition:	New
Notes:	
Load Posting Sign:	N/A
Original Design Load:	30-Ton forklift with 70-Ton front axle / HS25-44 Truck / 250 PSF

<b>Dolphins</b>							
<b>Dolphin</b>	<b>Dolphin Piles</b>	<b>Fender Support</b>	<b>Fender Face</b>	<b>Anodes</b>	<b>Built</b>	<b>Cond.</b>	<b>Notes</b>
W1	4B	2V	Sitka Spruce	Yes	2012	New	
E1	4B	2V	Sitka Spruce	Yes	2012	New	
E2	4B	2V	Sitka Spruce	Yes	2012	New	

<b>Catwalks / Gangways</b>							
<b>#</b>	<b>From Struc.</b>	<b>To Struc.</b>	<b>Length / Style</b>	<b>Built</b>	<b>Safety Chains?</b>	<b>Cond.</b>	<b>Lighting</b>
C1	Dock	W1	4'x87' Catwalk / Tube Deck Truss	2012	Yes	New	None
C2	Dock	E1	4'x87' Catwalk / Tube Deck Truss	2012	Yes	New	None
C3	E1	E2	4'x87' Catwalk / Tube Deck Truss	2012	Yes	New	None

### Observations

1. Depth to mudline elevations, taken with leadline readings at locations along the fender face in 2016, range from -27 to -31 MLLW.
2. The most recent underwater inspection ('18) found anodes with an average of 85% remaining section, and cathodic protection readings averaged -0.98V. Any reading less negative than -0.8V indicates the steel is not adequately protected from corrosion.

<b>Inspection Summary</b>		
<b>Structure</b>	<b>Priority</b>	<b>Recommendations</b>
<i>Category I - Safety Issues</i>		
Nothing Required		
<i>Category II - Rehabilitation Work</i>		
Dolphins	1	Recommend cleaning dolphin caps and unblocking drainage holes.
Dock Misc	2	Recommend securing "Flammable" sign for the dock fuel line connection to grating.
Concrete deck	3	Recommend completely filling all grout tubes flush to the deck surface to prevent collection of water and possible freeze damage to the deck.
Steel coating	4	Recommend cleaning and repairing galvanized coating on steel connections per ASTM A780 – using zinc-based alloys. Recommend monitoring the condition of splice plates and cleaning and re-coating plates with a zinc rich paint when the hot dip galvanizing has been depleted.
Utilities	5	Recommend shimming fuel pipelines at the first channel support at the end bent. Ensure electrical panel is tightly closed to prevent seawater intrusion
<i>Category III - Upgrades Needed</i>		
Nothing Required		