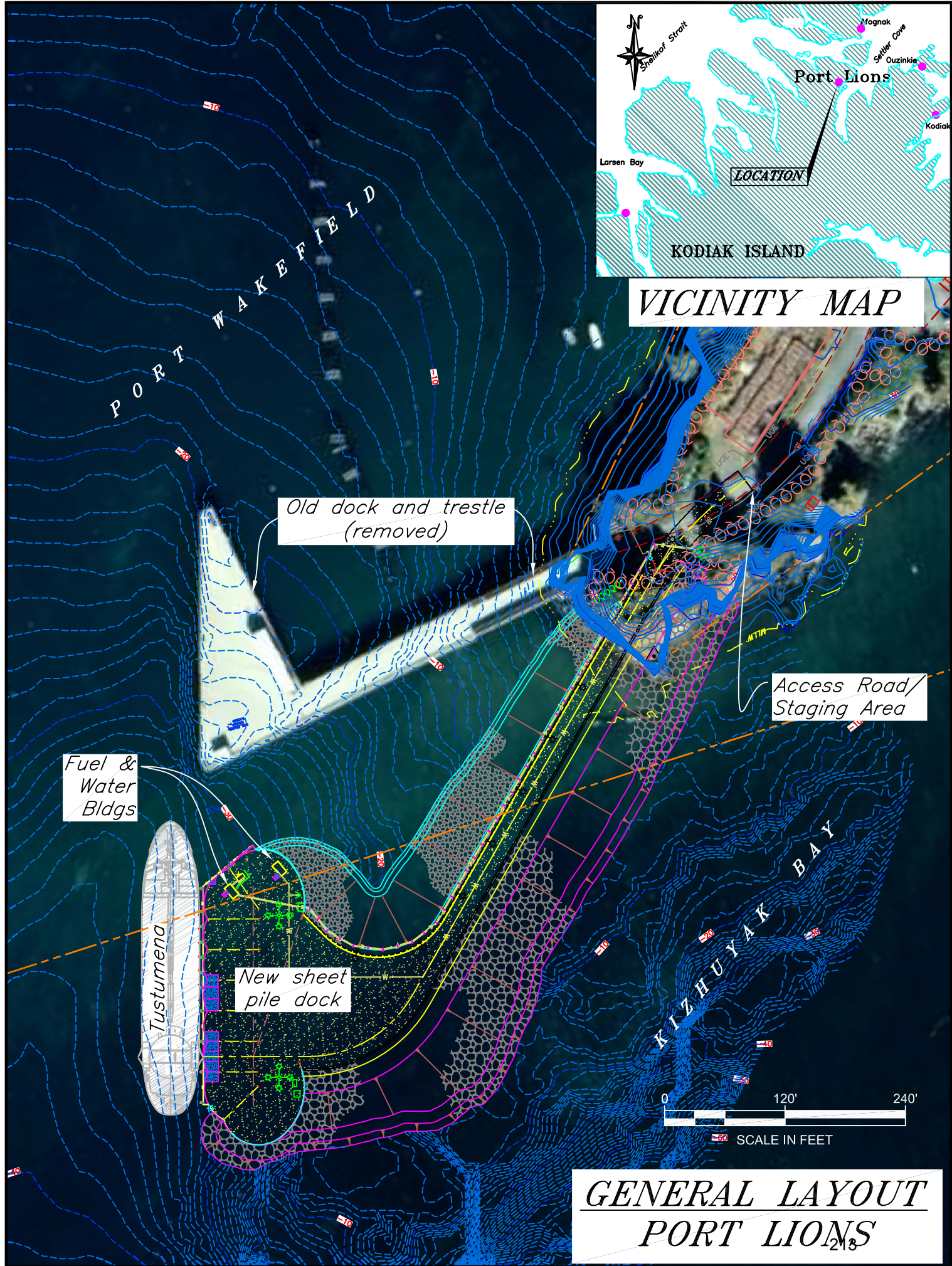


VICINITY MAP



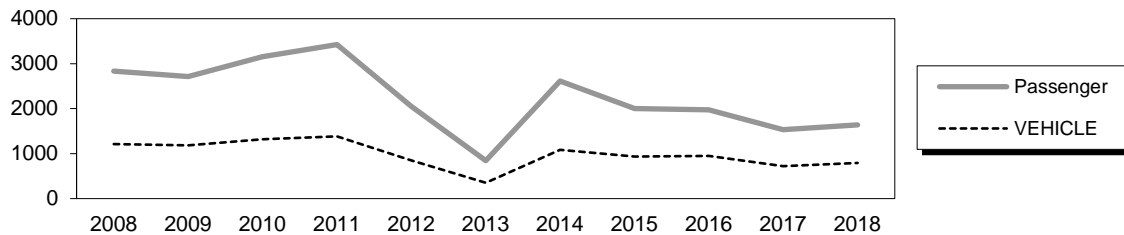
GENERAL LAYOUT
PORT LIONS
213

Port Lions Dock

Owner: City of Port Lions

Contact: Russell Gunderson, Harbormaster 907-454-2477

Terminal Description: The M/V Tustumena docks at Port Lions on its east/west passage between Kodiak and Homer. Port Lions is the second busiest port of call along the southwest route after Kodiak. The Port Lions facility is an earth-filled open-cell sheet pile wharf constructed in summer 2014. The dock has an approximately 214' berthing face with two mooring dolphins along the north end. Access to the dock is via a rubble-mound breakwater. The facility is a multi-purpose dock and could be in use by other vessels when the ferry arrives. AMHS is not in control of the operation or maintenance of this facility. The past 10 years of total passenger and vehicle traffic at Port Lions is shown below. The M/V Tustumena was out of service most of 2013, causing a steep dropoff in traffic at the terminal.



The most recent above water survey was completed on August 13, 2018.

Vessels	
Name	Berthing, Alignment
Tustumena	Starboard

Tidal Data (MLLW=0.0 feet)	
Highest Observed	13.1
MHHW	8.7
MHW	7.8
Lowest Observed	-3.5

Terminal Building
This facility does not have a terminal building.

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

Utilities @ Dock	
Fuel:	No
Electric:	No
Water:	No

Uplands	
Short-Term Parking:	N/A
Long-Term Parking:	N/A
Staging Area:	N/A

City Dock & Approach - #1428	
Year Built:	2014
Dock Structure:	Steel sheet pile bulkhead with
Coating:	Uncoated steel
Fenders:	Pin pile fenders along the face of the dock.
Mooring bollards/cleats:	Bollards along edge of dock; 2 dolphins north of dock
Lighting:	Light posts mounted on dock
Condition:	New
Load Posting Sign:	N/A
Original Design Load:	HS20

Terminal Projects			
Year	Project #	Project Name	Description
1960's	N/A	Port Lions Dock (original timber)	Construct new timber approach trestle and triangular main dock with crab pot holding pens and ice house.
2014	N/A	Port Lions Dock (new PND open cell sheet pile)	Construct new open cell sheet pile bulkhead, berthing fender structures, and dolphins.

Observations

1. The restraining nut is missing on catwalk restraining bolt connections. A pile cap at breasting dolphin N1 is damaged and is jacking up one corner of the catwalk
2. There are Tek screws missing on the catwalk railing in numerous locations.
3. The small radius of the circular rubber fenders along the dock face doesn't allow for much energy absorption. The top of the rubber ends below the steel mounting hardware, which can potentially damage vessel sponsons. Signs of impact damage should be monitored.
4. The average structure-seawater potential along the steel bulkhead was -0.85V (Ag/AgCl), indicating full CP protection. Structure-seawater potentials of the mooring dolphin averaged -0.97V, while the breasting dolphin was measured at -0.96V. Any CP readings less negative than -0.8V indicate lack of corrosion protection, and consequently freely corroding steel.
5. Depth to mudline elevations, taken with leadline readings at locations along the fender face in 2018, range from -25 to -36 MLLW.

Inspection Summary		
Structure	Priority	Recommendations
<i>Category I - Safety Issues</i>		
Nothing required		
<i>Category II - Rehabilitation Work</i>		
Catwalks		Install restraining nuts missing on catwalk restraining bolt connections. Install Tek screws that are missing on catwalk railings.
<i>Category III - Upgrades Needed</i>		
Fendering System		Extend the height of the fenders above the top of the dock to keep vessel sponsons from overtopping at high tide.