

STATE OF ALASKA
Department of Transportation
and Public Facilities

2021
Alaska Marine Highway System
**SHORE FACILITIES CONDITION
SURVEY REPORT**



Prepared by
Southcoast Region
Marine Engineering Section

**2021 Shore Condition Survey Report
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INTRODUCTION

This report documents all the components and component conditions of the ferry terminals and marine facilities used by the Alaska Marine Highway System (AMHS) in all of its ports of call. The primary purpose of this survey is to provide an overview of the present condition of the terminals to ensure the safety of the structures, aid planners in programming for future development, assist maintenance personnel with upkeep, and alert AMHS managers of operational constraints.

AMHS vessels currently visit thirty-seven coastal communities (43 port facilities). The ownership and configuration of the facilities vary widely; they include state and foreign owned ferry terminals, city owned freight wharves, and privately owned fish processing docks. The above water components of each facility are inspected biennially (SE on odd years, SC & SW on even years) and underwater inspections are performed on a five-year cycle. Table 1 lists the facilities, their owners, and the dates of the most recent inspections.

Route	Facility Location	ON/OFF SYSTEM	Bridge #	Owner	Inspection Date			
					Condition Survey	Underwater Inspection	FC Bridge Inspection	
Southeast AK	1	Angoon	ON	181	State of Alaska	7/28/21	8/14/21	-
	2	Auke Bay East	ON	1474	State of Alaska	5/12/21	8/23/21	5/12/21
	3	Auke Bay West	ON	803	State of Alaska	5/12/21	8/23/21	5/12/21
	4	Auke Bay Stern	ON	191	State of Alaska	5/10/21	8/24/21	5/10/21
	5	Bellingham	-	-	Port of Bellingham	9/10/21	-	-
	6	Clark Bay (Hollis)	ON	182	State of Alaska (IFA)	5/27/21	11/17/20	-
	7	Coffman Cove [Closed]	ON	193	City of Coffman Cove (IFA)	5/27/21	8/2/16	5/15/19
	8	Gustavus	ON	1417	State of Alaska	6/29/21	8/20/21	6/29/21
	9	Haines	ON	804	State of Alaska	5/6/21	8/22/21	5/6/21
	10	Hoonah	ON	179	State of Alaska	4/29/21	8/19/21	-
	11	Kake	ON	177	State of Alaska	6/28/21	8/13/21	-
	12	Ketchikan Berth 1	ON	800	State of Alaska	5/24/21	8/9/21	5/24/21
	13	Ketchikan Berth 2	ON	1823	State of Alaska	5/24/21	8/6/21	5/24/21
	14	Ketchikan Berth 3	ON	190	State of Alaska	5/24/21	8/6/21	5/24/21
	15	Metlakatla (Port Chester) [Closed]	ON	178	State of Alaska	7/24/17	8/4/16	8/4/16
	16	Metlakatla (Annette Bay)	ON	194	State of Alaska	4/30/21	7/30/18	-
	17	Pelican	ON	1426	City of Pelican	8/2/21	8/1/18	-
	18	Petersburg	ON	802	State of Alaska	5/17/21	8/12/21	5/3/21
	19	(Petersburg) South Mitkof [Closed]	ON	192	State of Alaska (IFA)	5/13/21	8/6/16	5/27/19
	20	Prince Rupert	-	-	City of Prince Rupert & Prince Rupert Port Authority	12/21/21	3/8/22	-
	21	Sitka	ON	806	State of Alaska	5/21/21	8/17/21	5/21/21
	22	Skagway	ON	805	State of Alaska & City of Skagway	6/9/21	8/21/21	5/8/21
	23	Tenakee	ON	1451	State of Alaska & City of Tenakee	12/15/20	8/18/21	12/15/20
	24	Wrangell	ON	801	State of Alaska	5/18/21	8/11/21	5/3/21
	25	Yakutat	OFF	2094	City of Yakutat	8/19/21	6/10/21	-
Southcentral AK	26	Chenega	ON	184 & 185	NPR Housing Authority	8/22/18	8/4/18	8/17/18
	27	Cordova	ON	180	State of Alaska	7/30/21	6/4/21	7/30/21
	28	Homer	OFF	1415	City of Homer	8/24/18	9/25/18	9/28/12
	29	Seldovia	ON	1423	City of Seldovia	8/24/18	9/26/18	9/27/12
	30	Tatitlek/Ellamar	ON	183	NPR Housing Authority	8/22/18	8/20/16	8/22/18
	31	Valdez	ON	1429	State of Alaska	8/22/18	8/11/17	8/22/18
	32	Whittier	OFF	1424	State of Alaska	8/12/18	8/3/18	8/12/18
Southwest AK	33	Akutan	ON	1946	Aleutians East Borough	9/22/18	7/17/14	9/18/12
	34	Chignik	-	-	Lake and Peninsula Borough	9/20/18	-	-
	35	Cold Bay	ON	1755	Aleutians East Borough	9/21/18	8/13/18	8/13/18
	36	False Pass	ON	1945	Village of False Pass	9/22/18	8/15/18	8/15/18
	37	King Cove	-	-	Aleutians East Borough	9/21/18	7/14/14	-
	38	Kodiak City Dock (Pier 1)	OFF	1425	City of Kodiak	8/13/18	7/8/14	9/28/12
	39	Kodiak Pier 2	ON	2095	City of Kodiak	8/13/18	7/9/14	9/29/12
	40	Old Harbor Dock	OFF	186	City of Old Harbor	8/11/18	8/11/18	8/11/18
	41	Ouzinkie City Dock	-	-	City of Ouzinkie	8/14/18	-	-
	42	Port Lions	-	-	City of Port Lions	8/13/18	7/10/14	-
	43	Sand Point	ON	2362	City of Sand Point	9/21/18	7/12/14	9/15/12
	44	Unalaska (Dutch Harbor)	ON	-	City of Unalaska	9/23/18	7/18/14	-

Table 1 - Ferry Terminal Inspection Dates

CONDITION RATINGS

Inspectors rate the condition of each facility component as listed below. The ratings reflect the component in-place condition as compared to its as-built condition.

Condition Rating	Description
9 EXCELLENT	
8 VERY GOOD	No problems.
7 GOOD	Some minor problems.
6 SATISFACTORY	Structural elements show some minor deterioration.
5 FAIR	All primary structural elements are sound but may have minor section loss, cracking, spalling, or corrosion.
4 POOR	Advanced corrosion, deterioration, cracking or chipping. Also significant erosion of piers or abutments.
3 SERIOUS	Corrosion, deterioration, cracking and chipping, erosion of piers or abutments have seriously affected deck, superstructure, or substructure. Local failures are possible.
2 CRITICAL	Advanced deterioration of the deck, superstructure, or substructure. May have cracks in steel or concrete, or erosion may have removed substructure support. It may be necessary to close the facility until corrective action is taken.
1 IMMINENT FAILURE	Major deterioration or corrosion in deck, superstructure, or substructure, or obvious vertical or horizontal movement affecting structural stability. Facility is closed to traffic but corrective action may put back in light service.
0 FAILED	Out of service, beyond corrective action.

TERMINOLOGY

Terminology used for the major components of a typical facility are:

All-Tide – A facility with floating fenders/mooring floats for home-port and/or overnight layup of vessels.

Approach - A structure that provides access for vehicles and passengers to the transfer bridge or dock, usually an embankment or pile supported structure with open steel grid, concrete deck or a timber deck.

Buildings - These are the terminal, generator, purser and warehouse structures located at facilities.

Catwalk - A walkway, with fixed ends, that provides access to mooring dolphins for shoreside personnel tying up the vessel.

Dock - A structure that provides a landing pier for vessels to moor and transfer vehicles and passengers. Usually a steel pile supported structure with a concrete deck or all timber structure.

Fender - Protective structure attached to the face of the dolphin, dock or mooring float. May be a row of timber piles, a steel pile supported timber structure, or a steel panel with high-density plastic facing.

Gangway - A catwalk in which one end moves vertically with tidal fluctuations.

Mooring Dolphins - Steel or timber structures used to attach mooring lines for the vessel.

Mooring Float - Steel framed structure with working deck, float support and fender panels used for berthing and mooring of vessels in lay-up or home port capacities as part of an all-tide facility.

Staging Area - Area where vehicles are assembled prior to boarding the vessel. May include short and long term vehicle parking.

Transfer Bridge - Transfer structure used to convey vehicles and passengers between the shore and vessel.

Transfer Bridge Support Structure - A steel or concrete floating pontoon or pile supported lift structure supporting the seaward end of the transfer bridge.

Utilities - Electrical power, water, telephone, TV cable and sewer services for the terminal facility and in some cases the vessels.

DOCUMENT ORGANIZATION

This document is divided into four sections.

Section I contains a summary report for each AMHS Terminal. Information in these reports includes: the terminal description, traffic data, vessels that utilize the facility, tidal data, description of all components at the facility, previous work performed, and a general facility evaluation table.

For a copy of the detailed facility inspection report for a specific terminal contact the AK DOT & PF Statewide Design & Engineering Services.

Section II contains a prioritization of capital improvements required at AMHS facilities based on rankings by SE Region Marine Engineering.

Section III contains a list of capital improvements required at all AMHS facilities, listed by individual terminal.

Section IV lists the characteristics of the ten AMHS vessels.

This report was prepared by reviewing historical records of the AMHS, interviewing vessel personnel, maintenance crews, and terminal operators. This report is a compilation of the findings of the bridge, underwater and above water inspection programs.

COMMENTS AND FEEDBACK

This document is updated annually using information from the most recent condition surveys. Questions and comments are appreciated and welcomed. All comments and questions should be mailed, faxed, e-mailed, or phoned to the following address:

State of Alaska
Department of Transportation & Public Facilities
Statewide Design & Engineering Services
6860 Glacier Highway
Juneau, Alaska 99801-7999
Attn: Misty Butler, Shore Facilities Inspection Manager
Phone: (907) 465-4546
E-mail: misty.butler@alaska.gov

REQUEST FOR COPY'S

The "2021 Shore Facilities Condition Survey Report" is distributed in an electronic format and can be downloaded from the following URL: http://dot.alaska.gov/project_info/AMHS_Shore_Fac_Report.shtml .



LEGEND

AMHS or IFA PORT

AMHS MARINE ROUTE

IFA MARINE ROUTE

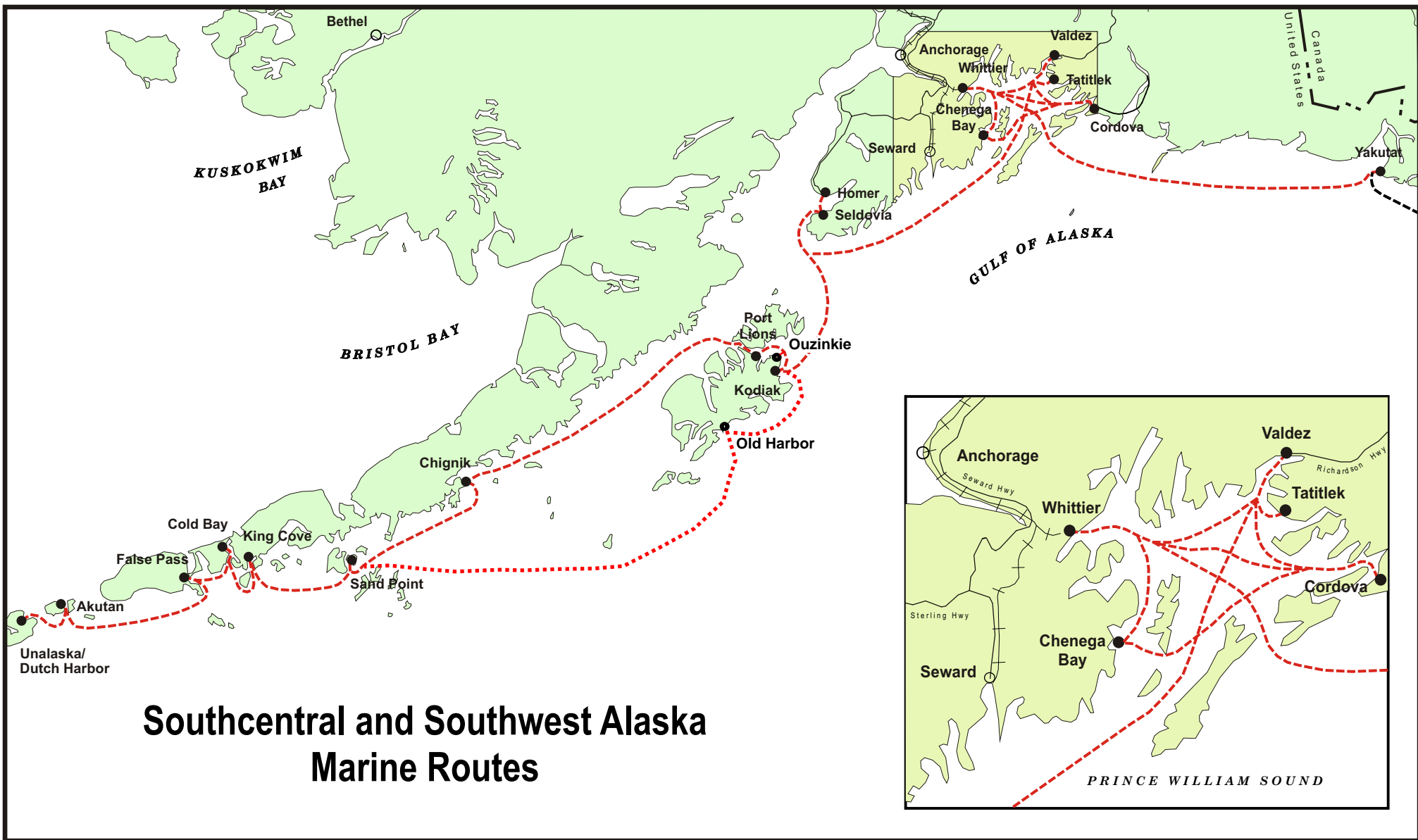
RAILROADS

ROADS

Alaska

Area Shown

ALASKA DOT&PF
GIS MAPPING SECTION



LEGEND	
AMHS PORT	●
MARINE ROUTE	- - - - -
RAILROADS	—+—+—+—
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