

STATE OF ALASKA
Department of Transportation
and Public Facilities

2022
Alaska Marine Highway System
**SHORE FACILITIES CONDITION
SURVEY REPORT**



Prepared by
Southcoast Region
Marine Engineering Section

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INTRODUCTION

This report documents the condition 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 below lists the facilities, their owners, and the dates of the most recent inspections. Facility inspections include a Shore Condition Survey (SC) for regular updates on and recommendations for marine facilities, a Routine Bridge Inspection (RB) to ensure bridge structures meet FHWA standards, an Underwater Inspection (UW) for monitoring subsurface structures, and a Fracture Critical (FC) inspection for facilities with critical structural elements lacking redundancy.

Table 1 - Ferry Terminal Inspection Dates

Route	Facility Location	ON/OFF SYSTEM	Bridge #	Owner	Inspection Date				
					Condition Survey	Routine Bridge	Underwater Inspection	FC Bridge Inspection	
Southeast AK	1	Angoon	ON	181	State	28-Jul-21	28-Jul-21	14-Aug-21	-
	2	Auke Bay East	ON	1474	State	12-May-21	12-May-21	23-Aug-21	12-May-21
	3	Auke Bay West	ON	191	State	12-May-21	12-May-21	23-Aug-21	12-May-21
	4	Auke Bay Stern	ON	803	State	10-May-21	10-May-21	24-Aug-21	10-May-21
	5	Bellingham	-	-	Port Authority	10-Sep-21	-	-	-
	6	Clark Bay (Hollis)	ON	182	State (IFA)	27-May-21	27-May-21	17-Nov-20	-
	7	Coffman Cove	ON	193	City of Coffman Cove (IFA)	27-May-21	27-May-21	02-Aug-16	15-May-19
	8	Gustavus	ON	1417	State	29-Jun-21	29-Jun-21	20-Aug-21	29-Jun-21
	9	Haines	ON	804	State	06-May-21	06-May-21	22-Aug-21	06-May-21
	10	Hoonah	ON	179	State	29-Apr-21	29-Apr-21	19-Aug-21	-
	11	Kake	ON	177	State	28-Jun-21	28-Jun-21	13-Aug-21	-
	12	Ketchikan Berth 1	ON	800	State	24-May-21	24-May-21	09-Aug-21	24-May-21
	13	Ketchikan Berth 2	ON	1823	State	24-May-21	24-May-21	06-Aug-21	24-May-21
	14	Ketchikan Berth 3	ON	190	State	24-May-21	24-May-21	06-Aug-21	24-May-21
	15	Metlakatla (Port Chester)	ON	178	State	24-Jul-17	24-Jul-17	04-Aug-16	04-Aug-16
	16	Metlakatla (Annette Bay)	ON	194	State	30-Apr-21	30-Apr-21	30-Jul-18	-
	17	Pelican	ON	1426	City of Pelican	02-Aug-21	02-Aug-21	01-Aug-18	-
	18	Petersburg	ON	802	State	17-May-21	17-May-21	12-Aug-21	03-May-21
	19	(Petersburg) South Mitkof	ON	192	State (IFA)	13-May-21	13-May-21	06-Aug-16	27-May-21
	20	Prince Rupert	-	-	Port Authority	05-Oct-17	05-Oct-17	08-Mar-22	-
	21	Sitka	ON	806	State	21-May-21	21-May-21	17-Aug-21	21-May-21
	22	Skagway	ON	805	State/City of Skagway	09-Jun-21	09-Jun-21	21-Aug-21	08-May-21
	23	Tenakee	ON	1451	State	10-Dec-22	10-Dec-22	18-Aug-21	10-Dec-22
	24	Wrangell	ON	801	State	18-May-21	18-May-21	11-Aug-21	03-May-21
	25	Yakutat	OFF	2094	City of Yakutat	19-Aug-21	19-Aug-21	10-Jun-21	-
Southcentral AK	26	Chenega	ON	184	NPR Housing Authority	13-Aug-22	13-Aug-22	04-Aug-18	13-Aug-22
	27	Cordova	ON	180	State	30-Jul-21	30-Jul-21	04-Jun-21	30-Jul-21
	28	Homer	ON	1415	City of Homer	26-Jul-22	26-Jul-22	25-Sep-18	-
	29	Seldovia	ON	1423	City of Seldovia	26-Jul-22	26-Jul-22	26-Sep-18	-
	30	Tatitlek/Ellamar	OFF	183	NPR Housing Authority	14-Aug-22	14-Aug-22	21-Aug-21	14-Aug-22
	31	Valdez	ON	1429	State	10-Aug-22	10-Aug-22	22-Aug-21	10-Aug-22
	32	Whittier	OFF	1424	State	11-Aug-22	11-Aug-22	03-Aug-18	11-Aug-22
Southwest AK	33	Akutan	ON	1946	City of Akutan	12-Sep-22	12-Sep-22	28-Jul-19	-
	34	Chignik	-	-	City of Chignik	23-Aug-22	-	09-Jul-09	-
	35	Cold Bay	ON	1755	City of Cold Bay	08-Aug-22	08-Aug-22	13-Aug-18	08-Aug-22
	36	False Pass	ON	1945	City of False Pass	09-Aug-22	09-Aug-22	15-Aug-18	09-Aug-22
	37	King Cove	-	-	Aleutians East Burough	13-Aug-22	23-Sep-22	14-Jul-14	-
	38	Kodiak City Dock (Pier 1)	ON	1425	City of Kodiak	15-Aug-22	15-Aug-22	30-Aug-21	-
	39	Kodiak Pier 2	ON	2095	City of Kodiak	15-Aug-22	15-Aug-22	25-Jul-19	-
	40	Old Harbor Dock	OFF	186	City of Old Harbor	14-Aug-22	14-Aug-22	11-Aug-18	14-Aug-22
	41	Ouzinkie City Dock	-	-	City of Ouzinkie	16-Aug-22	-	-	-
	42	Port Lions	-	-	City of Port Lions	16-Aug-22	-	-	10-Jul-14
	43	Sand Point	ON	1756	City of Sand Point	26-Dec-22	26-Dec-22	-	-
	44	Unalaska (Dutch Harbor)	ON	1824	City of Unalaska	23-Aug-22	-	18-Jul-14	-

CONDITION RATINGS

Inspectors rate the condition of each facility component as new, good, fair, poor or failed. 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 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 the condition report for each AMHS terminal. Information collected during site visits, underwater and fracture critical inspections, and drawn from terminal project histories and maintenance records is distilled into a tabular report. Following the report is an "Action Required" list of items identified in the inspection requiring action by the facility owner or AMHS.

Section II lists the characteristics of the eleven 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:

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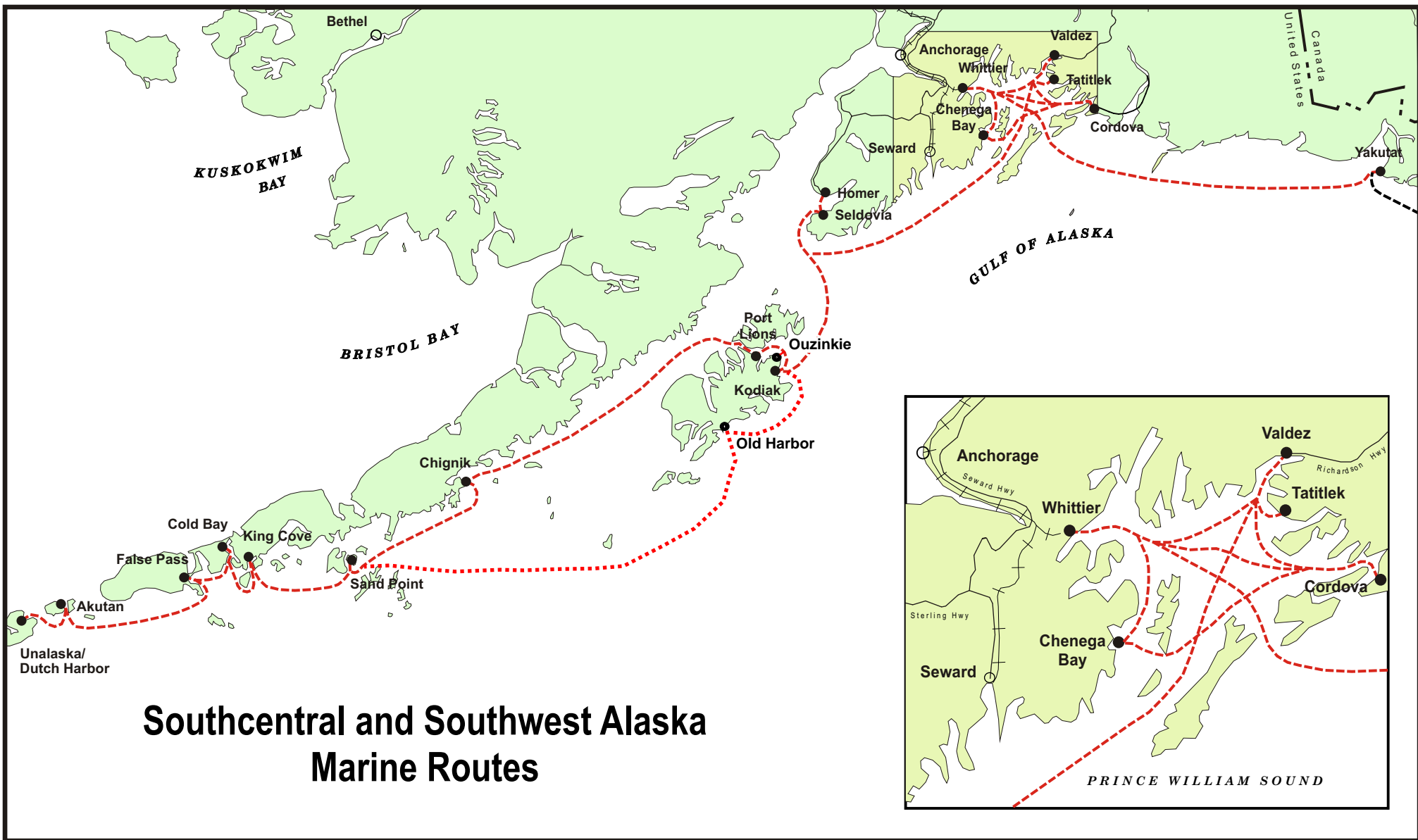
The "2022 Shore Facilities Condition Survey Report" is distributed in an electronic format and can be downloaded from the following URL: http://dot.alaska.gov/project_info/AMHS_Shore_Fac_Report.shtml .

If a hard copy of individual sections or of the entire report is desired, send your request with an address to the contact above. The materials will be mailed to you.



LEGEND	
AMHS or IFA PORT	●
AMHS MARINE ROUTE	---
IFA MARINE ROUTE	----
RAILROADS	—+—+—+—+—
ROADS	—





Southcentral and Southwest Alaska Marine Routes

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

