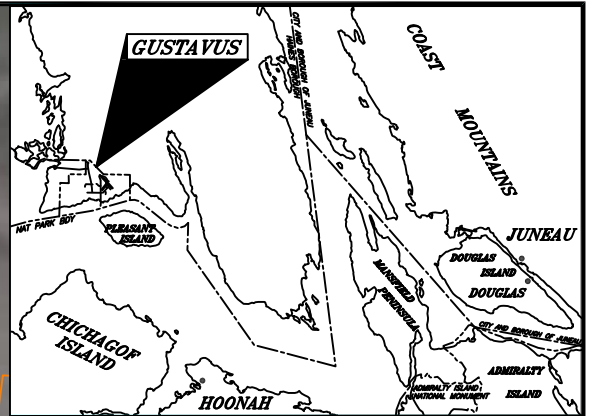


GUSTAVUS



VICINITY MAP



Sheet Pile Abutment

Approach Trestle

Generator Building

Barge Ramp

Barge Landing Dolphins

Steel Frame Dock

W1

Staging Area Island

Approach Trestle Transition

Vehicle Transfer Bridge

Lift Towers

Small Boat Harbor

Mooring Structures, typ

E1 E2 E3 E4 E5

MV LeConte

RW

RW

RW

RW

RW

RW

RW

ICY PASSAGE

GENERAL LAYOUT GUSTAVUS

Gustavus Ferry Terminal

State Dock Road

Owner: State of Alaska

Contact: Scott Gray, M&O Superintendent, SC Region – 907-465-1784

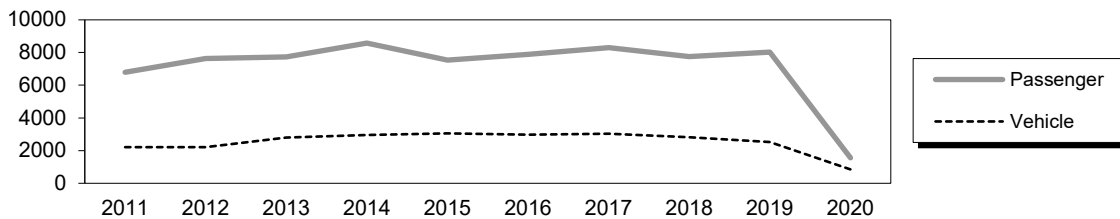
Terminal Description: Gustavus Dock is located on the north shore of Icy Strait, at the southern terminus of State Dock Road. It is a multiple use facility that serves the Alaska Marine Highway System (AMHS), provides freight and fuel transfer facilities for private carriers and accesses a seasonal, small boat harbor.

This is a side-loading terminal consisting of approach trestles, staging area island, freight dock, movable transfer bridge, and mooring/breasting structures. The transfer bridge is positioned using hoists located on each side of the bridge. The terminal serves primarily the MV LeConte but its mooring facilities can accommodate all side-loading ferries.

A small boat harbor is located adjacent to the terminal and is accessed via a gangway from the approach trestle. A wave barrier located on the dock provides some shelter to the boat harbor.

Operation and maintenance responsibility is shared among ADOT&PF (freight dock & trestle), AMHS (transfer bridge & mooring structures) and City of Gustavus (small boat harbor facilities). There is no terminal manager but operation of the transfer bridge and line handling is provided by a contract agent.

Summary of passenger and vehicle traffic volumes (source: <https://dot.alaska.gov/amhs/reports.shtml>):



The most recent above water and fracture critical bridge inspections were conducted on June 29, 2021 and under water inspection on August 20, 2021. Copies are available upon request from the ADOT&PF – Marine Design Department.

Vessels	
Name	Berthing Alignment
LeConte, Aurora	Port/Starboard
Others	Port/Starboard

Tidal Data (MLLW 0.0 feet)	
EHW	20.0
MHHW	14.8
MHW	13.7
ELW	-5.0

Terminal Building
This facility does not have a terminal building.

Generator & Building	
Year Built:	2011
Square Footage:	336 SF
Heating System:	Oil Furnace
Fuel Storage:	500 gal Tank
Fire Protection:	N/A
Condition:	New
Generator cannot operate hoist system. Bridge and apron lift systems rely solely on the local utility.	

Uplands	
Parking:	14 cars
Staging Area:	240 ft
Paint Striping:	No
Driving Surface:	Gravel

Vehicle Transfer Bridge - #1417	
Type:	24'x142' steel multi girder
Year Built:	2011
Shoreward support:	RC cap/ Driven Piling
Seaward support:	Hoists/lift towers
Coating:	Paint
Pedestrian Access:	On Bridge
Lighting:	Rail mounted fixtures
Condition:	New
Load Posting Sign:	N/A
Original Design Load:	HS 20-44

Bridge Lift System	
Hoist:	(2) Pearlson Shiplift Hoist
Capacity:	200 kips ea.
Elec Motor/Speed	15 HP/ bridge speed 1 ft/min

Utilities		
	at dock	at ramp
Electrical:	Yes	Yes
Water:	No	No
Sewer:	No	No
Fuel:	Yes	No

Dolphins							
Dolphins	Dolphin Piles	Fender Support	Fender Face	Anodes	Built	Cond.	Notes
W1	1V, 2B	-	Rubber Tires	No	2011	New	
E1	1V, 2B	Hanging	UHMW	No	2011	New	
E2	1V, 2B	Hanging	UHMW	No	2011	New	
E3	1V, 2B	Hanging	UHMW	No	2011	New	
E4	1V, 2B	Hanging	UHMW	No	2011	New	
E5	1V, 2B	-	Rubber Tires	No	2011	New	

Terminal Projects			
Year	Project #	Project Name	Description
2011	67599/ BR-0003(53)	Gustavus Causeway Replacement	The replacement of the old structures with new structures, the construction of a new dock and approach, and the relocation of the existing floats.
2013	67599	GST Emergency Bridge Repairs	Replaced horizontal and vertical alignment bridge rollers.
2013	67599	Gustavus Causeway Replacement	A new access gangway was installed between mooring structures E4 to E5 to allow use of E5 as a mooring line attachment for the MV Kennicott. Other miscellaneous modifications were made to the bull rails on the fixed dock and the existing dolphin caps to minimize line abrasion.
2020	68128	Gustavus Ferry Terminal Improvements	Bridge abutment and float substructure were replaced with pile supported RC abutment and Pearlson Shiplift hoists and lift towers. Approach trestle was widened to improve hrz alignment at top of bridge. Harbor access gangway was relocated to east side of trestle. Steel pontoon harbor float re-installed with (4) 4-pile guide restraints.

General Facility Evaluation

Facility Component	Rating
Approach trestle	6
Bridge	8
Abutment & lift system	8
Apron	8
Mooring Structures	7
Uplands Staging area	7
Uplands Waiting Building	-
Utilities	8

9	EXCELLENT CONDITION
8	VERY GOOD CONDITION - no problems noted
7	GOOD CONDITION - some minor problems.
6	SATISFACTORY CONDITION - structural elements show minor deterioration
5	FAIR CONDITION - all primary structural elements are sound but may have minor corrosion, cracking or chipping. May include minor erosion on bridge piers.
4	POOR CONDITION - advanced corrosion, deterioration, cracking or chipping. Also significant erosion of concrete bridge piers.
3	SERIOUS CONDITION - corrosion, deterioration, cracking and chipping, or erosion of concrete bridge piers have seriously affected deck, superstructure, or substructure. Local failures are possible.
2	CRITICAL CONDITION - advanced deterioration of 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 bridge until corrective action is taken.
1	"IMMINENT" FAILURE CONDITION - major deterioration or corrosion in deck, superstructure, or substructure, or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put back in light service.
0	FAILED CONDITION - out of service - beyond corrective action
N	Not applicable