

Give full particulars of the following:—  
Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casings top and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

*under house*  
Fiddleys - 3" Coamings - steel covers in sections - secured by fasteners from underneath  
Funnel - riveted to deck  
Eng Room skylight - steel  
Bunker hatch - (abst funnel) - 6" B.A. coaming - 2 3/4" covers off long; lug cleats; 2 1/2" rest bars. 2 tarpaulins and securing bar

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

*none*

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

*none.*

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Forecastle deck - 9" Cows - 36" Coamings (rivs @ 4 3/4") - sheet iron lids (deep & tight fit)  
One 6" S.N. vent - 36" high at each end of each hold. - wood plugs and covers.  
Htg. 1 1/2 - 12" Dia Vents - coamings 36" welded to deck. } 28-3-41 ✓  
3 - 6" " " " " (on Forecastle Dk.) }

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Forecastle deck - S.N. Airpipes - 15" high  
Upper " " " - 24 "  
Raised Qr " " " - 15 "

*Closing appliances supplied. (plugs and covers)*

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Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)  
Discharges for (from Forecastle)  
In Forepeak - 2 W.C. start & 1 port - clapper & gate valves on outlets - operable from inside peak only.  
In chain locker - 2 drains star & 1 port - clapper valves on outlets.  
all fitted with non return valves above clapper valves.

Discharges aft (from deckhouse)  
\* W.C.'s - 1 start in Eng Room & 1 in star bunker - outlets have clapper & gate valves.  
Drains - 2 each side in Eng Room - clapper valves on outlets.

Ash-hoist - hopper (in forward end of deckhouse) has hinged cover.  
W.C. Discharge valve in E.R. dispensed with hole blanked off. 28-3-41

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Forecastle sidehills - have hinged metal covers.  
Forecastle bulkhead - 10" air ports - have no covers.  
Engine Room side scuttles have hinged metal covers.

P+S-2 10" Dia. Fixed Deadlights - brass frames & E.S. hinged deadlights - to new accommodation in the hold Ford between Peak Bulkhead & Top Transverse bulkhead - kept closed up to upper deck. - protected by bars on outside  
Deleted Vents & Shields 4/4/49 ✓

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Open rails - 2 tier rod (or wire) all around upper & raised Qr deck - portable in way of hatchways.  
Rails dispensed with & bulwarks fitted (see sketch) 28-3-41 ✓

Gangways and Lifelines *lifelines fitted*

Gangway, Cargo and Coaling Ports in sides of ship

Gangway door P+S in Eng Room - good strong W.T. doors as originally fitted. (now closed and properly secured and welded up.)

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SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition

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Form LL. & C. (Revised) 252-0" x 43-4" x 20-6"  
THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT  
SURVEY FOR FREEBOARD 1556

STEAMER, TANKER, SAILER "CHEMONG" S.S. WITHOUT TIMBER DECK CARGO  
Nationality *British* Builders' Name and No. of Ship *North of Ireland S.B. Co. Ltd*  
Port of Registry *Montreal* ✓ Owners *Eastern Steamship Co. Ltd*  
Official Number *148073* ✓ Port and Date of Survey *Toronto, Ont. Mar 1st/38*  
Gross Tonnage *1702* ✓ 1914-16. Name of Surveyor *Edmund Macmillan*  
Date of Build *6/1924* Names of Sister Ships *"DEUMAOE", "HASTINGS"*  
Particulars of Classification *B.S. X. [Great Lakes & Gulf of St. Lawrence Service.]* ✓  
Type of Superstructures *Raised quarter deck and Forecastle.*  
Trade of Ship

Service Endorsement if any  
*"AND ONLY SO LONG AS THE SHIP IS EMPLOYED IN GREAT LAKES & LIMITED GULF OF ST. LAWRENCE SERVICE."*

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)	3' 4"
TROPICAL FRESH WATER LINE above centre of disc	Corresponding Freeboard
FRESH WATER LINE " " " 4 1/2"	" "
TROPICAL LINE " " " 4 1/2"	" "
WINTER LINE below " " 4"	" "
WINTER NORTH ATLANTIC LINE " " " "	3' 8"

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line	Corresponding Freeboard
TROPICAL FRESH WATER Timber line above L.S.	
FRESH WATER " " " "	" "
TROPICAL " " " "	" "
WINTER " " below "	" "
WINTER NORTH ATLANTIC " " " "	" "

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft on the 8th February 1939  
Chief Surveyor  
Secretary

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Form LL. 4.D.

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT  
SURVEY FOR FREEBOARD  
CONDITIONS OF ASSIGNMENT

SHIPS NAME

Nationality and Port of Registry

OFFICIAL NUMBER

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		_____						—
R.Q.D. "		<i>As originally built.</i>				<i>None</i>		—
Bridge Aft Bulkhead		_____						—
" Forward "		_____						—
Forecastle Bulkhead		<i>As originally built.</i>						—
Trunk, Aft		_____						—
" Forward		_____						—
Exposed Machinery Casings on Freeboard or R.Q. Decks		_____						
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Super- structures not fitted with Cl. 1. closing appliances								
Deckhouses on flush deck tops								

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead  
 R.Q.D. "  
 Bridge Aft Bulkhead  
 " Forward "  
 Forecastle Bulkhead  
 Exposed Machinery Casings on  
 Freeboard or R.Q. decks  
 Exposed Machinery Casings on  
 superstructure decks  
 Machinery Casings within super-  
 structures not fitted with Cl. 1  
 Closing Appliances  
 Deck houses on Flush Deck ships

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well		none (open rails all around)			
Forward Well		Bulwarks now fitted - see sketch.			28.3.41

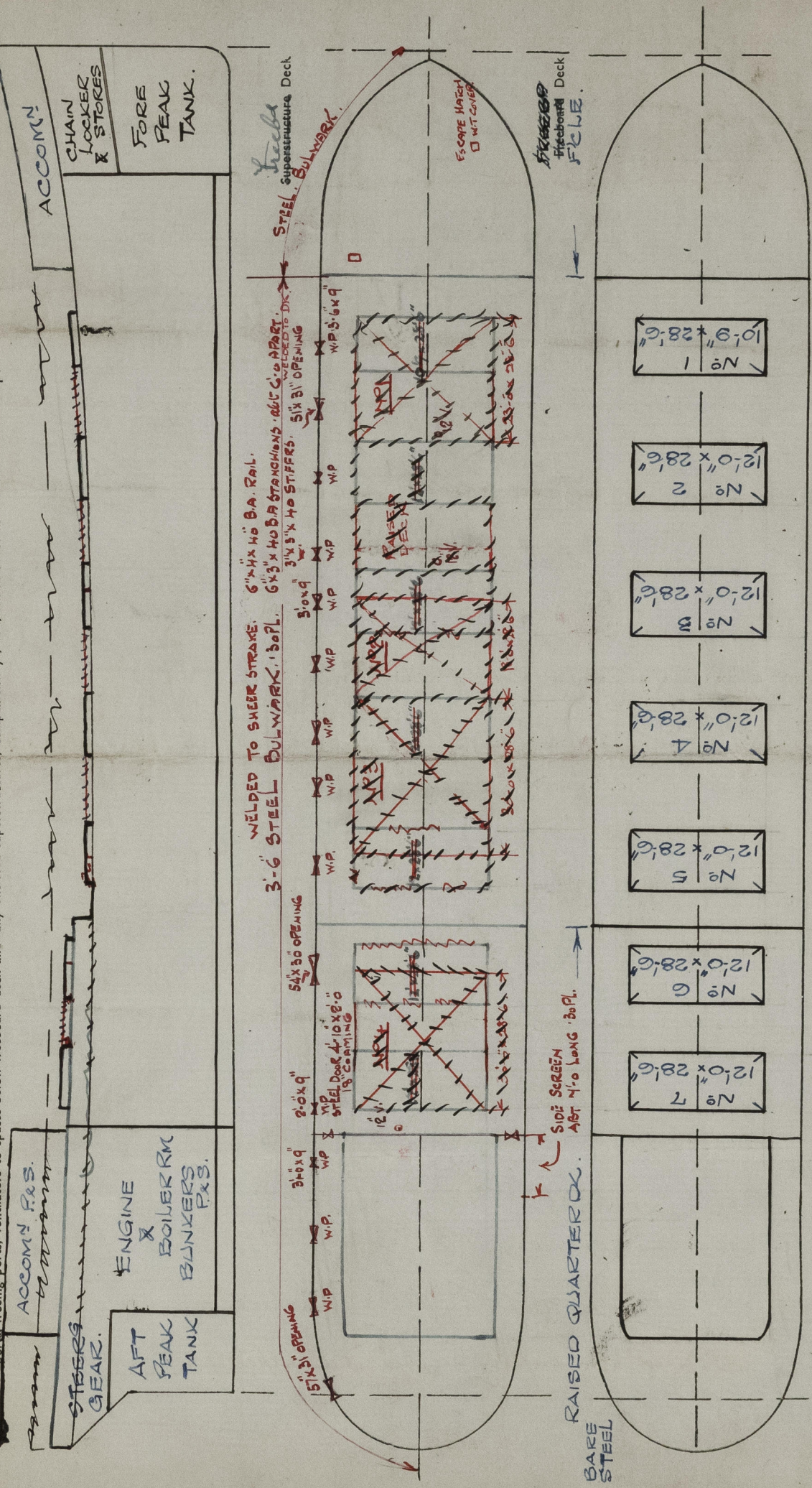
  

State fore and aft position and height above deck to bottom of port, for each port	After Well
	Forward Well

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks

Position and dimensions of superstructure decks; position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



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~~UPPER DECK~~ ~~AR.DD~~  
PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS  
11/19/68

[illegible]

Are wood fore and afters steel shod at all bearing surfaces ?

Are battens and wedges efficient and in good condition ?

Are tarpaulins in good condition and in accordance with rule requirements? Yes. *F.S.W.R*

Are lashings provided in accordance with rule requirements? ~~Screwing bars fitted.~~



# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

1556

## SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER..... S.S. "CHEMONG"..... WITH WITHOUT TIMBER DECK CARGO

Nationality BRITISH. Builders' Name and No. of Ship NORTH OF IRELAND S.B. CO. LTD.

Port of Registry MONTREAL

Official Number 148073 Owners MINISTRY OF SHIPPING.

Gross Tonnage 1902. 1914. MANAGERS WITHERINGTON & EVERET, NEWCASTLE-ON-TYNE.

Date of Build 6/1924 Port and Date of survey Toronto JULY/AUG. 1940

Particulars of Classification B5 \* (WITH FREEBOARD). Name of Surveyor E. RUSSELL MACMILLAN & H.W. MORRIS.

Type of Superstructures Raised Quarter Deck and Forecastle

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc	9"	Corresponding Freeboard	<u>3'- 4"</u>
FRESH WATER LINE " " "	<u>4 1/2"</u>	" "	<u>2'- 7"</u>
TROPICAL LINE " " "	<u>4 1/2"</u>	" "	<u>2'- 11 1/2"</u>
WINTER LINE below " "	<u>4"</u>	" "	<u>3'- 8"</u>
WINTER NORTH ATLANTIC LINE " " "	<u>6"</u>	" "	<u>3'- 10"</u>

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard
FRESH WATER " " " "		" "
TROPICAL " " " "		" "
WINTER " " below "		" "
WINTER NORTH ATLANTIC " " " "		" "

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft  
on the

Chief Surveyor



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Lloyd's Register  
Foundation  
Secretary

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# COMPUTATION OF FREEBOARD

Length on summer load line	Moulded Breadth	Moulded Depth	Depth of Keel
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth			Tons
Co-efficient of fineness for use with tables	$\frac{\Delta \times 35}{L \times B \times D \times .85} =$		
Displacement and tons per Inch immersion in salt water at summer load line			
Moulded depth	Deduction for Fresh Water $\frac{\Delta}{40 T} =$		inches
Stringer Plate	Round of Beam Correction		
Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$	Ships Round of Beam		inches
Rise of floor (in sallahs)	Standard Round of Beam $\frac{B \times 12}{50}$		
Depth for Freeboard (D)	Difference		
Table Depth	Restricted to		
Depth Correction	Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) =$		
If restricted by superstructures			

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop							Standard Height of Superstructure
Raised Quarter Deck							" " R.Q.D.
Bridge		F					Percentage covered S/L =
		A					" " E/L =
Forecastle							" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge
" Forward							less than .2L if required =
Tonnage Opening Aft							Deduction =
" " Forward							Percentage from Table for Tankers (or Timber ships) =
Totals							Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{8}$ L from A.P.				4	
$\frac{1}{8}$ L from A.P.				2	
Amidships				4	
$\frac{1}{8}$ L from F.P.				2	
$\frac{1}{8}$ L " "				4	
F.P.				1	
				18	
Effective Mean Sheer					
Standard " " .05L + 5					
Difference					

Mean Actual sheer aft	=
" Standard " "	
Mean Actual sheer forward	=
" Standard " "	
Length of enclosed superstructure forward of amidships	=
Length of Ship	
Length of enclosed superstructure aft of amidships	=
Length of Ship	
Sheer Correction = Difference X $\left(75 - \frac{S}{2L}\right)$	=
If limited on account of midship superstructure	=
" to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.	=

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

	+	-
Depth correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		

## draughts and seasonal corrections

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet		
Summer Freeboard in feet		
Moulded Draught (d)		(d1)
Addition for Keel		
Extreme draught		
Deduction for Tropical and addition for Winter freeboard $d/4 =$		ins.
Addition for Winter North Atlantic (if required)		ins.
Deduction for Tropical Timber Freeboard $\frac{d1}{3}$		ins.
Addition for Winter " " $\frac{d1}{3}$		ins.
" " N.A. Timber Freeboard (if required)		ins.

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