

**[Report 1916] / Medical Officer of Health, Cardiff Port Sanitary Authority.**

**Contributors**

Cardiff Port Sanitary Authority (Cardiff, Wales) n 2006181154

**Publication/Creation**

1916

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# ANNUAL REPORT

OF THE

## MEDICAL OFFICER OF HEALTH

FOR THE

### **CARDIFF PORT SANITARY AUTHORITY,**

FOR THE YEAR 1916.

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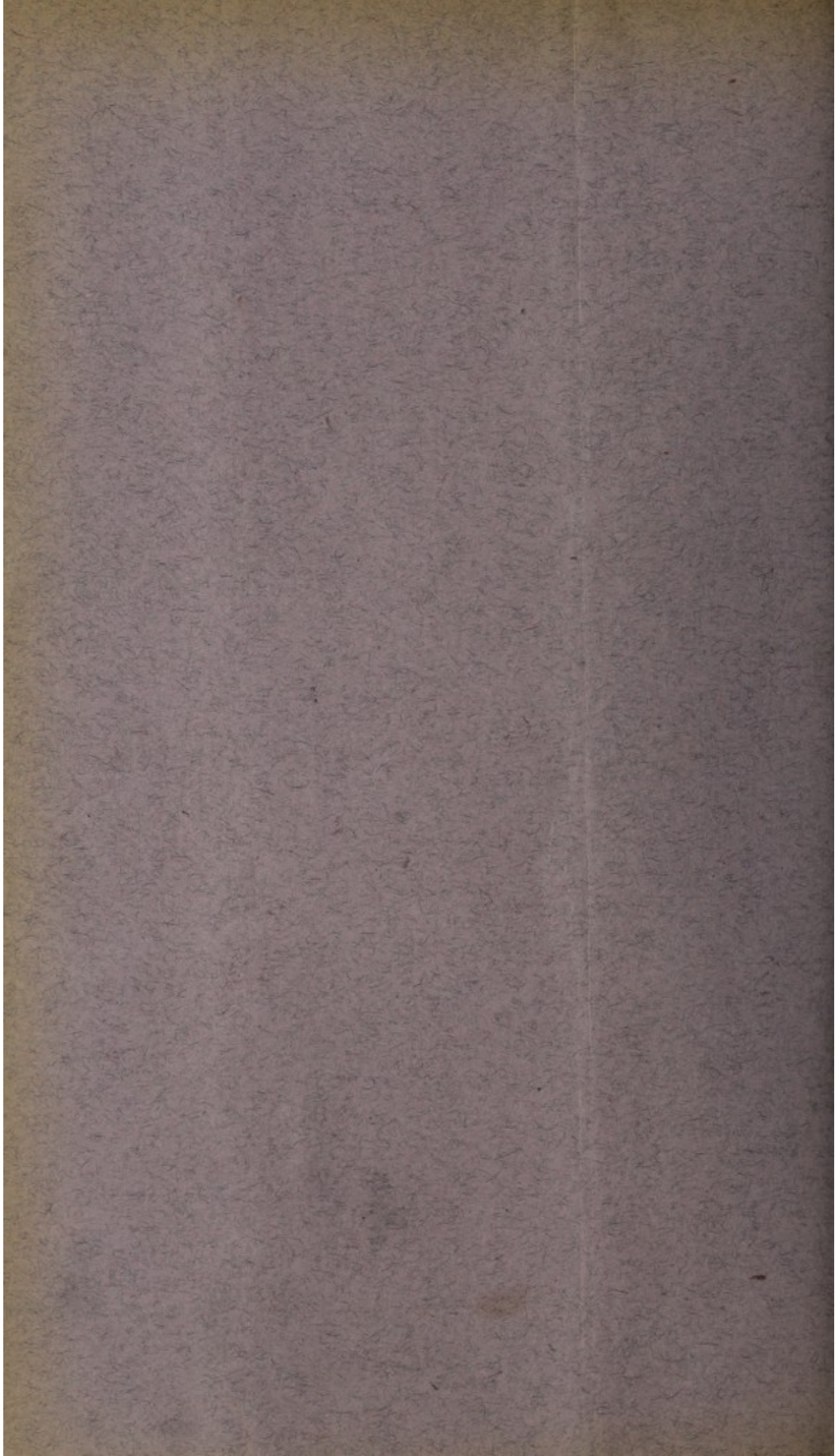
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CARDIFF :

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1917.





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ANNUAL REPORT

MEDICAL OFFICER OF HEALTH

CARDIFF PORT SANITARY AUTHORITY

FOR THE YEAR 1911

PRINTED BY THE CARDIFF PORT SANITARY AUTHORITY

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EDWARD WALFORD, M.D., D.P.H.

*Assistant Medical Officer of Health :*

A. F. BERNARD SHAW, B.A., M.D., D.P.H.

*Chief Inspector of Nuisances, Inspector under D. of A. Acts, Canal Boats Acts, and Unsound Food Regulations :*

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J. DAVIES, „ „ „	
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F. HARRIS.



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| G. W. L. B. G. L. L. B.      | H. G. L. B. G. L. L. B.   |

## Medical Officer of Health's Department

Medical Officer of Health  
J. H. STARBUCK, M.B.

Assistant Medical Officer of Health  
F. G. L. DAVIS, M.B.

Chief Inspector of Factories and Workshops  
F. G. L. DAVIS

Inspector of Factories and Workshops  
J. H. STARBUCK

Inspector of Factories and Workshops  
F. G. L. DAVIS

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F. G. L. DAVIS

Inspector of Factories and Workshops  
J. H. STARBUCK

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| Inspector of Factories and Workshops | F. G. L. DAVIS |
| Inspector of Factories and Workshops | J. H. STARBUCK |
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F. G. L. DAVIS

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J. H. STARBUCK

Inspector of Factories and Workshops  
F. G. L. DAVIS

# Cardiff Port Sanitary Authority.



95, BUTE STREET,  
CARDIFF,

*April, 1917.*

## To the Chairman and Members of the Cardiff Port Sanitary Authority.

GENTLEMEN,

I have the honour to submit to you my Annual Report for the year 1916.

The Regulations of the Local Government Board prescribe, with regard to the Medical Officer of Health :—

“ That he shall prepare an annual report, to be made to the end of December,  
“ in each year, comprising tabular statements so far as he shall have been able  
“ to obtain the necessary information, of the sickness and mortality of persons  
“ on ship-board within the District, classified according to diseases, ages, and  
“ vessels, and a summary of the action taken during the year for preventing the  
“ spread of disease. The report shall also contain an account of the proceedings  
“ in which he has taken part or advised under the Public Health Act, 1875, so  
“ far as such proceedings relate to conditions dangerous or injurious to health,  
“ and also an account of the supervision exercised by him, or on his advice, for  
“ Sanitary purposes over places and vessels that the Port Sanitary Authority  
“ has power to regulate, with the nature and results of any proceedings which  
“ may have been so required and taken in respect of the same during the year.”

In view of the special conditions which prevail at the present time, it is considered advisable in the interests of economy to reduce the volume of the report for this year to the smallest possible compass.

The Local Government Board has issued a circular note addressed to Medical Officers of Health, in which it is stated that having regard to the present circumstances “ The Board consider that many of the details usually inserted in the Annual Report, such as a description of the district and of the water supply, sewerage and sewage disposal, may be omitted and that the report may be confined to a record of what has taken place during the year.”

In compliance with the terms of this letter, this report will contain only a brief account of the routine work of the year in the Health Department of the Port.

Inspectors F. Wood, F. Howell, T. D. Hill, and W. J. Davies, have been on military duty during the year and their places have been filled by temporary Inspectors John Morgans, F. Sartain and O. T. George.

The following Table gives particulars of vessels and tonnage, foreign and coastwise, entering the Cardiff Port Sanitary District, kindly supplied to me by H.M. Collector of Customs.

TABLE I.

YEARS.	NUMBER OF VESSELS.		Total No. of Vessels Foreign and Coastwise.	TONNAGE.		Total Tonnage Foreign and Coastwise inwards.
	Foreign.	Coastwise.		Foreign.	Coastwise.	
1900	3,212	8,858	12,070	3,127,985	2,850,479	5,978,464
1901	2,829	8,755	11,584	2,917,948	2,750,335	5,668,283
1902	2,763	9,337	12,100	2,729,563	2,953,915	5,683,478
1903	2,544	9,130	11,674	2,821,927	2,976,901	5,798,828
1904	2,370	8,635	11,005	2,563,188	3,178,989	5,742,177
1905	2,437	9,959	12,396	2,662,128	3,252,663	5,914,791
1906	2,790	9,306	12,096	3,386,347	3,236,673	6,623,020
1907	3,018	8,798	11,816	3,799,249	3,163,622	6,962,871
1908	2,890	8,163	11,053	3,675,274	2,821,260	6,496,434
1909	2,846	8,400	11,246	3,788,643	3,017,152	6,805,795
1910	2,925	9,340	12,265	3,719,987	3,371,362	7,091,349
1911	2,864	8,991	11,855	3,840,594	3,088,173	6,928,767
1912	3,013	8,009	11,022	3,954,927	3,444,446	7,399,373
1913	3,329	7,806	11,135	4,458,875	3,610,470	8,069,345
1914	2,943	7,423	10,366	4,125,437	3,794,786	7,920,223
1915	3,342	6,401	9,743	3,044,111	3,862,154	6,906,265
1916	5,604	6,913	12,517	5,776,910	5,540,249	11,317,159

**INFECTIOUS DISEASES** :—The powers which the Port Sanitary Authority possesses for dealing with the ordinary Infectious Diseases, which are always more or less present in this country, are derived from the Public Health Acts and the Regulations made by the Authority under the provisions of these Acts. The Regulations made by the Cardiff Port Sanitary Authority under Section 125 of the Public Health Act, 1875, are as follows :—

1.—In these Regulations, the expression "The Port Sanitary Authority" means the Mayor, Aldermen and Burgesses of the Borough of Cardiff, acting by the Council, as the Port Sanitary Authority; the expression "The District" means so much of the Customs' Port of Cardiff as, under an Order of the Local Government Board, dated the 15th day of September, 1894, is comprised within the jurisdiction of the Port Sanitary Authority; the expression "Ship" includes a Boat; the expression "Medical Officer of Health" includes any legally qualified Medical Practitioner lawfully authorised to act on behalf of such Officer; the expression "Dangerous Infectious Disorder" means any one of the following diseases :—

SMALL-POX	RELAPSING FEVER	TYPHOID FEVER
MEMBRANOUS CROUP	DIPHTHERIA	CONTINUED FEVER
TYPHUS FEVER	SCARLATINA OR SCARLET FEVER	

2.—These Regulations shall remain in force until they are revoked by the Port Sanitary Authority, or until fresh Regulations under Section 125 of the Public Health Act, 1875, are made by the Port Sanitary Authority and approved of by the Local Government Board.

3.—Every Master or other person having charge of a ship arriving in the District with any person on Board, whether a passenger or belonging to the ship's crew, suffering from a dangerous infectious disorder, shall stop on arrival in any dock-basin, river, harbour, or canal within the District, and forthwith send notice to the Medical Officer of Health of the Port Sanitary Authority, stationed at his office at Cardiff, that there is a person on board suffering from such a disorder.

4.—The Master or other person in charge of the ship shall cause her to remain in any dock-basin, river, harbour, or canal within the District in which she shall have stopped on arrival, until the Medical Officer of Health has boarded her.

5.—The Medical Officer of Health, to whom notice is given either by the Master or person in charge of the ship, or by an Officer of the Port Sanitary Authority boarding the ship on its arrival, that there is a person on board suffering from a dangerous infectious disorder, shall, as soon as practicable, visit the ship, and ascertain whether the person referred to in the notice is suffering from such a disorder, and if in the opinion of the Medical Officer of Health he is, and can properly be removed, and proper accommodation can be provided for him in the Hospital of the Port Sanitary Authority of Cardiff, or in some other Hospital to which the Port Sanitary Authority are entitled to remove patients, the Master or other person having charge of the ship shall forthwith cause such person to be removed to such Hospital, according to the directions of the Medical Officer of Health.

6.—If any dangerous infectious disorder shall break out on board any ship, arriving in the District, and after she has passed into any dock-basin, river, harbour, or canal, the Master or other person having charge of such ship shall give notice to the Medical Officer of Health of the Port Sanitary Authority at his Office at Cardiff, that there is on board a person suffering from such disorder, and if, upon examination, the Medical Officer of Health shall find that he is so suffering, the Master or other person in charge of such ship shall forthwith cause such person to be removed to a Hospital to which the Port Sanitary Authority are entitled to remove patients, as directed by the Medical Officer of Health.

7.—Every person who shall offend against any of the foregoing Regulations shall be liable for every such offence to a penalty of Forty Shillings.

In addition to the above, the Port Sanitary Authority has adopted the Infectious Disease Notification Act, 1889, which requires the notification to the Medical Officer of Health by Medical Practitioners of all cases of the ordinary Infectious Diseases coming under their care. In September, 1900, the Local Government Board, by order, extended the provisions of this Act to the notification of every case of Plague occurring in the district. Circular letters were sent by me to Medical Practitioners informing them of their duties in this respect.

The hospital referred to in the above Regulations is that belonging to the Cardiff Urban Sanitary Authority, in which accommodation is provided for persons suffering from diseases specified, on board ships within the District of the Port Sanitary Authority of Cardiff.

**DIPHTHERIA.**—On July 29th, a notification was received from a medical practitioner in the city, that E. H., aged 24 years, A.B. on board the Norwegian s.s. "Harald," lying in the Roath Dock, was suffering from Diphtheria. He was forthwith removed to the City Sanatorium, taking his effects with him. The crew space on board was thoroughly cleansed with disinfectants.

On August 31st, a notification was received from a medical practitioner in the city, that M. B., aged 20 years, steward on board the Norwegian s.s. "Stolt," lying in the West Bute Dock, was suffering from Diphtheria. He was forthwith removed to the City Sanatorium; his effects removed for disinfection; his berth disinfected and the water tanks emptied and cleansed.

**ERYSIPELAS.**—On April 14th, a notification was received from a medical practitioner in the city, that J. S., aged 24 years, carpenter on board the British s.s. "Terek," lying in the Queen Alexandra Dock, was suffering from Erysipelas. He had been medically attended at Foynes, and he went to his home at Sunderland; the Medical Officer at that port being notified. His berth on board the vessel was disinfected.

On May 1st, a notification was received from a medical practitioner in the city, that G. C., aged 40 years, a fireman on board the Italian s.s. "Hermersberg," lying in the Roath Dock, was suffering from Erysipelas. He was removed to the Royal Hamadryad Seamen's Hospital for treatment. His berth on board the vessel was disinfected.

On October 4th, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital, notified a case of Erysipelas, J. T., aged 58 years, fireman on board the s.s. "Northwaite." He had left his ship abroad and was admitted into the hospital on September 9th.

**MEASLES.**—On February 22nd, a notification was received from a medical practitioner in the city that H. P., aged 16 years, O.S. on board the Norwegian s.s. "Norne," lying in the East Bute Dock, was suffering from Measles. He was isolated and treated on board and the fore-castle was subsequently disinfected and cleansed. His effects were also removed for disinfection.

On March 27th, it was reported to me that W. J. T., aged 18 years, Wireless operator on board the British s.s. "Polymnia," lying in the Roath Basin, was ill on board. I examined him and found that he was suffering from German Measles. He was forthwith removed to the City Sanatorium. His effects and bedding were removed for disinfection and his berth cleansed with disinfectants.

On June 9th, a notification was received from a medical practitioner, that A. W., aged 29 years, boatswain on board the British s.s. "Strathairly," lying at Penarth Dock, was suffering from German Measles. He was forthwith removed to the City Sanatorium; his berth disinfected and effects removed for disinfection.

On October 26th, it was reported to me that P. T., aged 15 years, cadet on board the British s.s. "Aparima," lying in the Roath Dock, was suffering from Measles. He was isolated on board and being medically attended by the ship's doctor. His berth and effects were subsequently disinfected.

**PHTHISIS.**—During the year ended December 31st, twenty-two cases of Phthisis were notified, as compared with seven during the previous year. Some of these cases were notified from the Royal Hamadryad Seamen's Hospital and others were treated on board the ships.

**SCARLET FEVER.**—On January 11th, a notification was received from the Medical Superintendent of the Royal Hamadryad Seamen's Hospital, that B. J., aged 17 years, apprentice on board the s.s. "Ella Sayer," lying in the Queen Alexandra Dock, was suffering from Scarlet Fever. The patient was forthwith removed to the City Sanatorium. His berth on board the ship was disinfected, also his effects.

Patient had left the ship on arrival at Birkenhead, and went to his home at Newcastle, rejoined the ship again and sailed for Cardiff. He was sent to the hospital on arrival and the next morning the case was notified. The ward at the hospital, also bedding, was disinfected.

**TYPHOID FEVER.**—On February 18th, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital notified a case of Typhoid Fever, A. M., aged 17 years, O.S. on board the French s.s. "Hendaye," lying at Barry Dock. He was admitted into hospital on the 3rd. His effects, also bedding, removed for disinfection and the ward at the hospital disinfected.

On April 14th, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital, notified a case of Typhoid Fever, A. N., aged 26 years, A.B. on board the Norwegian s.s. "Skjold," lying at Penarth Dock. He was admitted into hospital on April 6th, the vessel having arrived on the 3rd. Vessel had sailed previous to receiving the notification. Bed and bedding were removed from the hospital for disinfection, also the ward disinfected.

On June 7th, a notification was received from a medical practitioner in the city, that B. E., engineer on board the Norwegian s.s. "Thyra," lying in the East Bute Dock, was suffering from Typhoid Fever. He was forthwith removed to the City Sanatorium; his berth disinfected, also effects removed for disinfection. The vessel had been in dock for some days previous to receiving notification.

On July 23rd, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital notified a case of Typhoid Fever, W. H. W., aged 19 years, apprentice on board the s.s. "Arlington Court," lying in the Queen Alexandra Dock, was admitted on the 23rd. His effects were removed for disinfection and his berth on board disinfected. A sample of the drinking water was submitted to the Cardiff and County Public Health Laboratory for analysis, and which proved to be of good quality.

On August 8th, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital notified a case of Typhoid Fever, S. O. T., aged 23 years, A.B. on board the Norwegian s.s. "Rutunfjell." He was admitted to hospital on July 31st, the vessel lying at Barry Dock. Some bedding was subsequently disinfected also the ward at the hospital.

On August 18th, a notification was received from a medical practitioner in the city, that J. S., aged 28 years, master of the Belgian s.s. "Antigoon," lying in the Roath Dock, was suffering from Typhoid Fever. He was removed to hospital; his effects and cabin on board were disinfected. The vessel had been in dock for some days previous to receiving notification.

On November 8th, the Medical Superintendent of the Royal Hamadryad Seamen's Hospital notified a case of Typhoid Fever, A. B., aged 35 years, fireman on board the s.s. "Visigoth," lying in the Roath Dock. He was admitted into hospital on the 5th. His effects were removed for disinfection, and the fore-castle was disinfected and cleansed.

The following Table gives the number of vessels boarded during the year ended December 31st, 1916, by the Medical Officer of Health and his Assistants, on account of disease on board during the voyage, or during the vessel's stay in the district of the Cardiff Port Sanitary Authority.

TABLE II.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Jan. 3	4.40 p.m. ...	s.s. "Ciboure"	French ...	Bizerta ...	Cold ...	The Master reported on arrival at Roath Dock, that J. D., fireman, aged 42 years, was suffering from a severe cold. Medical treatment obtained and he was treated on board.
" 7	10.15 a.m. ...	s.s. "Goodwood"	British ...	Buenos Aires ... <i>via</i> Las Palmas and Dunkirk	Typhoid Fever ...	The Master reported upon arrival in the Channel Dry Dock, that the vessel left Buenos Aires 9th November, 1915, and on the 23rd November, 1915, S. E. H., apprentice, aged 18 years, was taken sick and on arrival at Las Palmas on the 6th December, 1915, he was sent to hospital suffering from Typhoid Fever. His effects were sent on shore with him; his berth disinfected; and a fresh supply of drinking water taken on board. All well on arrival at this Port.
" 8	9.30 a.m. ...	s.s. "Mira"	French ...	Bizerta ... <i>via</i> Algiers	Debility ...	The Master reported on arrival at Roath Dock, that J. D., fireman, aged 29 years, was sick. Medical treatment obtained and he was found to be suffering from Debility. He was removed to Royal Hamadryad Seamen's Hospital, and rejoined his ship at time of sailing.
" 10	...	"Yuba"	Norwegian ...	Valparaiso ...	Rheumatism ...	The vessel arrived in the Queen Alexandra Dock on January 8th and on the 10th the Master reported that E. A., A.B., aged 20 years, was laid up suffering from Rheumatism and was being medically treated on board.
" 11	...	s.s. "Arabie"	French ...	Oran ... <i>via</i> Lisbon	Debility ...	The Vessel arrived in East Bute Dock on January 10th, and on the 11th the Master reported that L. P., A.B., aged 19 years, was sick. He was removed to Royal Hamadryad Seamen's Hospital for treatment and he was found to be suffering from Debility.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Jan. 11	...	s.s. "Ella Sayer" ...	British ...	Seville ... via Birken- head	Scarlet Fever ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Scarlet Fever. B. M., apprentice, aged 17 years, was admitted into the hospital on the 10th and on the 11th he was notified as suffering from Scarlet Fever. He was forthwith removed to the City Sanatorium; his effects were disinfected; his berth on board ship, also the ward at the hospital were disinfected.
" 16	3 a.m. ...	s.s. "Dovreffjell" ...	Norwegian ...	St. Nazaire ...	Phthisis ...	The Master reported on arrival at Penarth Dock, that N. A., A.B., aged 34 years, was laid up and had been medically attended at St. Nazaire and found to be suffering from Phthisis (supposed). Medical treatment recommended. Patient sailed again in the ship.
" 22	9.40 a.m. ...	s.s. "Bufjord" ...	Norwegian ...	Rocheport ... via Newport	Constipation...	The Master reported on arrival at Penarth Dock, that A. C., mess-room steward, aged 15 years, was sick. Medical treatment recommended, and he was afterwards medically attended and treated for Constipation.
" 24	10.45 p.m. ...	s.s. "Marie Rose" ...	Russian ...	Archangel ... via London	Diarrhœa ...	The Master reported on arrival at Roath Dock, that V. S., fireman, aged 37 years, was laid up suffering from Diarrhœa. Medical treatment recommended.
Feb. 2	...	s.s. "Ran" ...	Swedish ...	Rouen ...	Cold ...	The Master reported that J. J., A.B., aged 20 years, was suffering from a severe cold and was being medically attended on board. The vessel arrived in dock on January 23rd.
" 9	11.30 p.m. ...	s.s. "Lord Charlemont" ...	British ...	Baltimore ... via Belfast and Dublin	Adenitis ...	The Master reported on arrival in East Bute Dock Basin, that N. D., fireman, aged 27 years, was laid up sick. He was removed to Royal Hamadryad Seamen's Hospital the next morning, when he was found to be suffering from Acute Adenitis.



TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS
Feb. 17	7.45 a.m. ...	s.s. "Larchgrove" ...	British ...	Barrow-in-Furness	Phthisis ...	The Master reported on arrival at Roath Dock that P. O'B., fireman, aged 28 years, also P. M., fireman, aged 45 years, were both suffering from Phthisis and had been treated in hospital at Liverpool, some time previously. They were both paid off and went to their homes at Liverpool.
" 18	... ..	s.s. "Hendaye" ...	French ...	...	Typhoid Fever ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Typhoid Fever. A. M., O. S., aged 17 years, was admitted into that Institution on February 3rd from the s.s. "Hendaye," lying at Barry Dock, and he was notified on February 18th as suffering from Typhoid Fever. His effects, together with bed and bedding were removed for disinfection, also the ward at the hospital was disinfected.
" 19	7.40 p.m. ...	s.s. "Teviotdale" ...	British ...	Savona	Rheumatism ...	The Master reported on arrival at the East Bute Dock Basin, that M. C., messroom steward, aged 17 years, was laid up suffering from Rheumatism. He was removed to the Royal Hamadryad Seamen's Hospital, the following day for treatment.
" 21	9.0 p.m. ...	s.s. "San Isidoro" ...	Spanish ...	London	Abscess ...	The Master reported on arrival in Penarth Dock, that D. G., A.B., aged 23 years, was laid up. Medical treatment obtained and he was found to be suffering from Abscess in side.
" 22	... ..	s.s. "Norne" ...	Norwegian ...	Oporto ...	Measles ...	Notification received from a Medical Practitioner in the City to the effect that H. P., O.S., aged 18 years, was suffering from Measles. Patient was isolated and treated on board. The patient's effects were subsequently disinfected, also the forecastles were disinfected and cleansed.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Feb. 22	...	" Pauline "	French	Nantes	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. J. N., 35 years, Master of the " Pauline " was admitted into the institution on February 11th; notified on the 22nd, and he died on the 23rd. His berth on board the vessel was disinfected; bed, bedding and effects removed for disinfection. Bed and bedding were also removed from the Hospital for disinfection.
" 26	1.10 a.m.	s.s. " Highland Monarch "	British	Bombay <i>via</i> Liverpool	Small Pox	The Master reported on arrival at the Mount Stuart Dry Docks, that several members of the crew were left in hospital whilst at Liverpool, suffering from Smallpox. Disinfection carried out at that Port. The vessel was visited daily whilst in this Port and no other case occurred.
" 28	...	s.s. " Norne "	Norwegian	Oporto	Cold	The Master reported that H. K., A.B., aged 21 years, was suffering from a severe cold. Medical treatment recommended.
" 29	...	s.s. " Manhattan "	British	London	Tonsillitis and Pneumonia	The Master reported that W. C., messroom steward, aged 15 years, was sent to the Hamadryad Seamen's Hospital, where it was found that he was suffering from Tonsillitis, also N. V., A.B., aged 26 years, was sent to the hospital, and it was found that he was suffering from Pneumonia.
" 29	...	s.s. " Narcis "	Belgian	London	Rheumatism	Upon visiting the ship, the Master reported that G. O., A.B., aged 17 years, was ill on board. Medical treatment recommended and it was afterwards found that he was suffering from Rheumatism.
Mar. 2	6.15 p.m.	s.s. " Trident "	British	Naples	Acute Bronchitis	The Master reported on arrival at Penarth Dock, that R. E. P., 1st Mate, aged 58 years, was ill on board suffering from Acute Bronchitis. Medical treatment obtained, and he was subsequently paid off and went to his home.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Mar. 6	...	s.s. "Nanna"	Norwegian	St. Nazaire	Bright's Disease and Tonsillitis	This vessel arrived in dock on February 28th, and upon visiting on March 6th, the Master reported that E. L., 1st Engineer, aged 52 years, also O. H., cook, aged 19 years, were ill on board. Medical treatment was obtained when it was found that the former was suffering from Bright's Disease and the latter from Tonsillitis.
" 6	...	s.s. "Skageraak"	Norwegian	...	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. C. B. P., A.B., aged 40 years, was admitted on February 12th, having left his ship at Newport.
" 7	...	s.s. "City of Corinth"	British	London	Bronchitis	This vessel arrived in Queen Alexandra Dock on February 25th, and upon visiting on March 7th, the Master reported that F. P. R., apprentice, aged 16 years, was ill on board and was being medically attended. He was suffering from Bronchitis.
" 9	10.30 p.m.	s.s. "Treborg"	Norwegian	Nantes	Rheumatism	The Master reported upon arrival in the West Bute Dock Basin, that A. P., fireman, age 50 years, was ill on board. Medical treatment obtained when he was found to be suffering from Rheumatism.
" 10	11.30 a.m.	s.s. "Sierstad"	Norwegian	Oporto	Cold	The Master reported upon arrival in the East Bute Dock Basin, that C. C., fireman, aged 27 years, was ill on board. Medical treatment was obtained when it was found that he was suffering from a severe cold.
" 11	11.25 p.m.	s.s. "Falk"	Norwegian	Rouen	Rheumatism	The Master reported on arrival at the Channel Dry Docks, that S. S., A.B., aged 20 years, was laid up suffering from Rheumatism. Medical treatment recommended and on 15th he was removed to Royal Hamadryad Seamer's Hospital (see entry May 3rd).

TABLE II.—continued

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Mar. 14	1.50 a.m. ...	s.s. " Helmsdale "	Norwegian	Rosario <i>via</i> Havre	Debility ...	The Master reported upon arrival in the East Bute Dock Basin, that H. K., cook, aged 55 years, was left in hospital at Rosario, on February 5th, suffering from General Debility.
" 14	...	s.s. " Moorgate "	British	...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. A. L., fireman, aged 22 years, left his ship at the Dardanelles, came as passenger to Liverpool, thence to Cardiff, and was admitted to that Institution on March 1st, from a boarding house in the City.
" 14	...	s.s. " Vasconia "	Norwegian	Havre ...	Phthisis ...	This vessel arrived at Penarth Dock on March 4th and on the 14th C. L., aged 23 years, a fireman on board, was removed to the Workhouse Hospital and reported as suffering from Phthisis. He was sent to his home in Sweden the following day, taking all his effects with him. The fore-castle was thoroughly cleansed with disinfectants. Patient joined the ship at Havre.
" 18	8.0 a.m. ...	s.s. " Newlyn "	British	Hull ...	Debility ...	The Master reported on arrival at Roath Basin, that H. A., aged 35 years, had been ill on board for some time. Medical treatment obtained and it was found that he was suffering from General Debility. He was paid off and went to a boarding house in the City.
" 21	...	s.s. " Bulla "	British	Liverpool ...	Pneumonia ...	This vessel arrived at Queen Alexandra Dock on March 5th, and the following day, M. F., aged 35 years, fireman, was sent to the Royal Hamadryad Seamen's Hospital, suffering from Pleurisy. He was discharged from the hospital on the 17th and rejoined the ship. He was again taken ill and re-admitted into the hospital on the 21st suffering from Pneumonia, at which Institution he died on the 24th.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Mar. 21	8.55 p.m. ...	s.s. "Krosfond" ...	Norwegian	Rouen ...	Cold and Tonsillitis ...	The Master reported on arrival at East Bute Dock Basin, that O. T., aged 23 years, carpenter, was ill on board suffering from a severe cold. Medical treatment recommended. On the 24th, V. J., aged 22 years, A. B., was reported as suffering from Sore Throat. He was sent to the Royal Hamadryad Seamen's Hospital the same day and found to be suffering from Tonsillitis.
" 22	... s.s. "Tormod" ...	Norwegian	Nantes ...	Urticaria ...	This vessel arrived at East Bute Dock on the 18th. On the 22nd, E. A., aged 26 years, fireman, was reported to be suffering with a Skin Eruption. Medical treatment obtained and he was found to be suffering from Urticaria.	
" 26	11.30 p.m. ...	s.s. "Zero" ...	British ...	Campana via Madeira and London	Typhoid Fever ...	The Master reported on arrival at Roath Basin, that F. B., A. B., aged 32 years, was landed and sent to hospital at Madeira on March 3rd, suffering from Typhoid Fever. Water tanks were emptied and cleansed at London.
" 27	... s.s. "Polymnia" ...	British ...	Liverpool ...	Measles (German) ...	This vessel arrived in Dock on the 21st and on the 27th, W. J. T., aged 18 years, wireless operator, was reported sick. I examined him and found him to be suffering from German Measles. He was forthwith removed to the City Sanatorium. His effects, together with bedding, were removed for disinfection and his berth on board thoroughly cleansed with disinfectants.	
" 31	6.0 p.m. ...	s.s. "Cornelia" ...	British ...	Oporto ...	Phthisis ...	The Master reported on arrival at Roath Dock, that J. B., steward, aged 42 years, was sent to hospital at Oporto on March 20th, suffering from Phthisis. He died on the 23rd. His effects were all sent on shore and his berth thoroughly cleansed and disinfected.

TABLE II.—*continued.*

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
April 1	6.45 p.m. ...	s.s. "Cento" ...	British ...	St. Nazaire ...	Phthisis ...	The Master reported on arrival at Penarth Dock, that W. D., A.B., aged 40 years, was ill on board and had been medically attended whilst at St. Nazaire, suffering from Phthisis. Medical treatment obtained here and he was subsequently paid off and sent to his home.
"	6.0 a.m. ...	s.s. "Emlynverne" ...	British ...	St. Servan ...	Rheumatism ...	The Master reported on arrival at West Bute Dock Basin, that A. S., A.B., aged 33 years, was ill on board suffering from Rheumatism. He was forthwith removed to the Royal Hamadryad Seamen's Hospital for treatment.
"	9.50 p.m. ...	s.s. "Terek" ...	British ...	Norfolk, Va., ... <i>via</i> Foynes	Erysipelas ...	The Master reported on arrival at Roath Dock, that J. S., carpenter, aged 24 years, was ill on board suffering from Erysipelas. He had been medically attended at Foynes. Medical treatment was obtained here and the case was notified. He was subsequently paid off and sent to his home at Sunderland. His berth on board was thoroughly cleansed with disinfectants. The Medical Officer of Health, Sunderland, was notified.
"	10.0 a.m. ...	s.s. "George Fisher" ...	British ...	Bordeaux ...	Dropsy ...	The Master reported on arrival at Penarth Dock, that D. F., aged 52 years, A.B., was laid up suffering from Dropsy. Medical treatment recommended and he was subsequently removed to the Royal Hamadryad Seamen's Hospital.
"	12.30 p.m. ....	s.s. "Crown of Granada" ...	British ...	London ...	Catarrh of Stomach...	The Master reported on arrival at Penarth Dock, that M. McN., A.B., aged 19 years, was laid up suffering from Catarrh of Stomach. Medical treatment obtained and he was treated on board.
"	4.40 p.m. ...	s.s. "Arracan" ...	British ...	Havre ...	Colds ...	The Master reported on arrival at Roath Basin, that several members of the crew (Lascars) were left in hospital at Havre, suffering with colds. All well on arrival here.

TABLE II—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
April 14	...	s.s. "Skjold"	Norwegian	Caen ...	Typhoid Fever ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Typhoid Fever. A. N., A.B., aged 26 years, was admitted into the hospital on April 6th, from s.s. "Skjold," lying at Penarth Dock. The ward at the hospital and the bedding, etc., were subsequently disinfected. This Vessel arrived in Dock on April 3rd and had sailed again previous to receiving notification.
" 18	7.0 p.m. ...	s.s. "Salamanca"	Norwegian	London ...	Rheumatism ...	The Master reported on arrival at Roath Basin, that O. O., fireman, aged 30 years, was laid up with Rheumatism. He was subsequently removed to the Royal Hamadryad Seamen's Hospital for treatment.
" 22	8.45 a.m. ...	s.s. "Bellax"	Norwegian	Rouen ...	Stomachic Cramp ...	The Master reported on arrival at Penarth Dock, that E. B., fireman, aged 30 years, was laid up suffering from severe Cramp in Stomach. Medical treatment recommended.
" 25	10.45 a.m. ...	s.s. "Jerseymoor"	British	La Pallice ...	Kidney Disease ...	The Master reported on arrival at Mount Stuart Dry Docks, that J. C., fireman, aged 36 years, was laid up and that he had been under Medical treatment whilst at La Pallice, suffering from Kidney Disease. He was subsequently paid off and went to his home.
May 1	...	s.s. "Hermersberg"	Italian	Genoa ...	Erysipelas ...	A notification was received from a Medical Practitioner in the City, to the effect that G. G., aged 40 years, fireman on board the s.s. "Hermersberg," lying in the Roath Dock, was suffering from Erysipelas. He was removed to the Royal Hamadryad Seamen's Hospital for treatment. His bed was destroyed and berth cleansed on board the ship.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
May 3	...	s.s. "Inkosi"	British	Gibraltar <i>via</i> Plymouth	Phthisis	A notification was received from a Medical Practitioner in the City, to the effect that H. H., aged 19 years, steward on board the s.s. "Inkosi," lying in the Queen Alexandra Dock, was suffering from Phthisis. He was paid off and proceeded to his home at Bristol. His berth on board was thoroughly cleansed with disinfectants.
" 3	...	s.s. "Omnium"	French	St. Nazaire	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. Y. G., aged 25 years, A.B., on board the s.s. "Omnium," was suffering from Phthisis. He was admitted into hospital on April 14th. The vessel had sailed previous to receiving the notification.
" 3	...	s.s. "Falk"	Norwegian	Rouen	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. S. S., aged 20 years, A.B. on board the s.s. "Falk," lying in the East Bute Dock. Patient was admitted into hospital on March 15th. The vessel had sailed previous to receiving notification.
" 3	...	s.s. "Mombassa"	British	Calais	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. A. G., aged 36 years, A.B. on board the s.s. "Mombassa," lying in the Queen Alexandra Dock. Patient was admitted into hospital on April 28th. The vessel had sailed previous to receiving the notification.
" 9	...	s.s. "Waimana"	British	Liverpool	Scabies	This Vessel arrived in the Queen Alexandra Dock on May 1st and on the 9th it was reported that A. R., aged 19 years, assistant steward on board, was suffering from Scabies. He was taken to the Disinfecting Station for sulphur baths and rejoined ship on sailing. His berth and clothes were disinfected and bed destroyed.



TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
May 13	..	s.s. "Treborg" ..	Norwegian	Fecamp	Phthisis ..	A notification was received from a Medical Practitioner in the City to the effect that A. M., aged 14 years, cabin boy on board the s.s. "Treborg" was suffering from Phthisis. The vessel sailed the following day, taking the patient to his home in France.
" 13	5.30 p.m. ....	s.s. "Pensacola" ..	British	Lerwick...	Small Pox ..	The Master reported on arrival at East Bute Dock Basin, that G. S., aged 23 years, boatswain on board, was removed to hospital at Lerwick on April 18th, suffering from Small Pox. The whole of the members (22) of the crew were vaccinated; all clothing removed for disinfection, and vessel disinfected and isolated for ten days. No other case occurred on board.
" 13	....	s.s. "Johannes Mærsk" ..	Danish	Huelva ... <i>via</i> Plymouth	Congestion of Liver...	The Master reported on arrival at Penarth Dock, that L. P. A., aged 35 years, 3rd engineer, was landed and sent to hospital whilst at Plymouth, suffering from Congestion of Liver.
" 19	7.0 p.m. ....	s.s. "Harald" ..	Norwegian	Nantes ...	Debility ..	The Master reported on arrival at Penarth Dock, that G. M., fireman, aged 22 years, was ill on board. Medical treatment obtained and he was found to be suffering from General Debility.
June 2	8 a.m. ....	s.s. "Llanover" ..	British	Hornillo <i>via</i> Glasgow	Debility ..	The Master reported on arrival at Roath Dock Basin, that A. R., carpenter, aged 48 years, was laid up and had been medically attended whilst at Glasgow, suffering from General Debility. He was sent to Royal Hamadryad Seamen's Hospital for treatment.
" 3	9.30 a.m. ....	s.s. "Cookham" ..	British	Rouen ...	Diarrhoea ..	The Master reported on arrival at Penarth Dock, that J. J., (the late Master) had been suffering from Diarrhoea, but now convalescent and was proceeding to his home.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
June 4	8.30 a.m. ...	s.s. "Pengreep" ...	British ...	New York ...	Internal Hæmorrhage	The Master reported on arrival at Queen Alexandra Dock, that M. A., fireman, was taken ill on June 1st and died on the 3rd. A medical man was called who certified death to have been caused by Gastric Hæmorrhage of the Stomach.
"	7 ...	s.s. "Thyra" ...	Norwegian ...	Oporto ...	Typhoid Fever ...	This Vessel arrived at East Bute Dock on May 31st. On June 7th, a notification was received from a Medical Practitioner in the City to the effect that B. E., engineer on board, was suffering from Typhoid Fever. He was forthwith removed to the City Sanatorium. His effects were disinfected, also his berth cleansed with disinfectants.
"	9 2.0 a.m. ...	s.s. "Strathairly" ...	British ...	Havre ...	Measles (German) ...	The Master reported on arrival at Penarth Dock, that E. W., aged 28 years, boatswain, was ill on board. Medical treatment obtained and he was certified to be suffering from German Measles. He was forthwith removed to the City Sanatorium. His effects removed for disinfection and his berth disinfected.
"	13 4.30 p.m. ...	s.s. "Mars" ...	Norwegian ...	Calais ...	Diarrhœa ...	The Master reported on arrival at Penarth Dock, that D. C., aged 45 years, a fireman on board, was suffering from Diarrhœa. Medical treatment recommended.
"	14 7.45 p.m. ...	s.s. "Fleur-de-Lys" ...	British ...	Rouen ...	Hernia ...	The Master reported on arrival at Channel Dry Dock, that J. C., boatswain, aged 49 years, was laid up suffering with Hernia. Medical treatment recommended.
"	16 ...	s.s. "Dagbjorg" ...	Norwegian ...	Bordeaux ...	Phthisis ...	A notification was received from a Medical Practitioner in the City, to the effect that A. M., A.B., aged 25 years, was suffering with Phthisis. He was paid off and sent to his home at Norway. The fore-castle was cleansed with disinfectants.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
June 21	11.45 p.m....	s.s. "Greflord"	British	Cette	Heart Disease	The Master reported on arrival at East Bute Dock Basin, that G. L., A.B., aged 28 years, was ill on board and suffering from Heart Disease. He was subsequently paid off and proceeded to his home at London.
" 26	2.0 p.m. ...	s.s. "Palermo"	British	London	Pneumonia	The Master reported on arrival at Queen Alexandra Dock, that one of the members of his crew (a Lascar) had died the previous day whilst at sea. The body was removed to the Mortuary and an inquest was held. The cause of death was found to be Pneumonia.
" 29	...	s.s. "Nicolaos Athanasoulis"	Greek	Hornillo	Rheumatism and Cold	This Vessel arrived in Roath Dock on June 25th, and on the 29th it was reported that K. E., A.B., and J. J., fireman, were sent to the Royal Hamadryad Seamen's Hospital the previous day, the former suffering from Rheumatism and the latter from a Cold.
" 30	...	s.s. "Baldwin"	Norwegian	Bordeaux	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. R. J., A.B., was admitted into the hospital on May 12th, from the s.s. "Baldwin," then lying at Penarth Dock. The vessel had sailed previous to receiving notification.
" 30	...	s.s. "Glenorchy"	British	...	Phthisis	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. K. A., aged 28 years, A.B., on board the s.s. "Glenorchy." Patient had left his ship at another port and was admitted into hospital on May 12th. He was removed to Glan Ely Tuberculosis Sanatorium for treatment.
July 1	9.0 p.m. ...	s.s. "Altair"	Norwegian	Rouen	Bronchitis	The Master reported on arrival at East Bute Dock Basin, that J. G., fireman, aged 21 years, was left in hospital at Rouen, suffering from Bronchitis.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
July 4	8.50 p.m. ...	s.s. "Bromma" ...	Norwegian	Havre ...	Hernia ...	The Master reported on arrival at Penarth Dock, that E. H., A.B., aged 19 years, was laid up suffering from Hernia. Medical treatment recommended.
" 7	12.0 noon ...	s.s. "Skrim" ...	Norwegian	Havre ...	Febricula ...	The Master reported on arrival at Penarth Dock, that T. C., A.B., was laid up. Medical treatment obtained and he was reported to be suffering from Febricula.
" 14	7.0 p.m. ...	s.s. "Mutlah" ...	British	Ardrossan ...	Congestion of Lungs	The Master reported on arrival at Penarth Dock, that R. J., aged 60 years, A.B., was sent to hospital at Ardrossan, suffering from Congestion of Lungs.
" 15	...	s.s. "Huntscastle" ...	British	Hull ...	Pneumonia ...	The Chief Officer reported that G. R., a fireman, was ill on board. Medical treatment was obtained and he was reported to be suffering from Pneumonia. He was subsequently removed to the Royal Hamadryad Seamen's Hospital for treatment.
" 18	11.20 a.m. ....	s.s. "Nantwen" ...	British	St. Nazaire ...	Diarrhoea and Heart Complications	The Master reported on arrival at the Mount Stuart Dry Docks, that C. R., aged 51 years, a fireman, was left in hospital at St Nazaire, on June 30th, suffering from Diarrhoea and Heart complications. He died there on July 1st.
" 23	3.30 p.m. ...	s.s. "Arlington Court" ...	British	Cette ... via Gibraltar	Typhoid Fever ...	The Master reported on arrival at Queen Alexandra Dock, that W. H. W., aged 19 years, apprentice, was ill on board. Patient was removed to the Royal Hamadryad Seamen's Hospital the following morning and the Medical Superintendent notified him to be suffering from Typhoid Fever. His effects and berth on board were disinfected and a sample of the drinking water was submitted to the Cardiff and County Public Health Laboratory for analysis and which proved to be of good quality. The bed and bedding also the ward at the hospital were subsequently disinfected.

TABLE II.—*continued.*

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
July 23	4.5 p.m. ...	s.s. "Ohio"	French ...	Toulon ...	Dysentery ...	The Master reported on arrival at Queen Alexandra Dock, that V. B., boatswain, aged 26 years, was ill on board suffering from Dysentery. He was removed to the Royal Hamadryad Seamen's Hospital for treatment. The watertanks on board were emptied and cleansed at Toulon.
" 24	1.25 a.m. ...	s.s. "Fredheim"	Norwegian ...	Rouen ...	Adenitis ...	The Master reported on arrival at Penarth Dock, that J. G., aged 28 years, a fireman, was suffering from Adenitis. He had been medically treated whilst at Rouen. Medical treatment recommended.
" 27	...	s.s. "Pontwen"	British ...	...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. G. W., aged 23 years, a fireman, was admitted into hospital on July 25th, from a boarding house in the City, having left the s.s. "Pontwen" at another port.
" 27	...	s.s. "Carperby"	British ...	...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. K. T., aged 36 years, A.B., was admitted into hospital on June 17th, from a boarding house in the City, having left the s.s. "Carperby" at another port.
" 27	...	s.s. "Sutton Hall"	British ...	St. Nazaire ...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. S. F., aged 28 years, a fireman, on board the s.s. "Sutton Hall," lying in the Queen Alexandra Dock, was admitted on June 27th. The vessel had sailed previous to receiving the notification.
" 27	...	...	...	...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. M. S., aged 37 years, a fireman, was admitted into the hospital on July 21st, from a boarding house in the City, having left his ship at another port.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
July 28	5.55 p.m. ...	s.s. "Dansted"	Danish	Rouen ...	Cold ...	The Master reported on arrival at Penarth Dock, that T. H., aged 19 years, A. B., on board, was suffering with a severe cold and had been medically treated whilst at Rouen. Medical treatment recommended.
" 29	9.0 a.m. ...	s.s. "Wandilla"	British	Devonport ...	Eczema; Cold and Venereal Disease	The Master reported on arrival at Queen Alexandra Dock, that J. J., fireman, aged 47 years, W. R., fireman, aged 47 years, and J. C., fireman, aged 30 years, were suffering from Eczema, cold and Venereal Disease, respectively. Medical treatment was obtained and the two former went to their homes and the latter was sent to the Royal Hamadryad Seamen's Hospital for treatment.
" 29	...	s.s. "Harald"	Norwegian	Rouen ...	Diphtheria ...	This Vessel arrived at East Dock on July 28th, and as the vessel was on the point of sailing the following day, a notification was received from a Medical Practitioner in the City, to the effect that E. H., aged 24 years, a seaman on board, was suffering from Diphtheria. He was forthwith removed to the City Sanatorium. His effects were disinfected and disinfectants supplied for cleansing the fore-castle.
Aug. 2	...	s.s. "Seistan"	British	Bordeaux ...	Debility ...	This Vessel arrived at Penarth Dock on July 30th. On August 2nd it was reported that A. A., fireman, was ill on board. Medical treatment recommended and he was sent to the Royal Hamadryad Seamen's Hospital, when it was found that he was suffering from General Debility.
" 7	...	s.s. "Kyarra"	British	Malta ... via Plymouth	Phthisis ...	A notification was received from a Medical Practitioner in the City, to the effect that G. F., aged 19 years, assistant steward, was suffering from Phthisis. He was subsequently sent to the Royal Hamadryad Seamen's Hospital for treatment.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Aug. 8	...	s.s. "Rutenfjell" ...	Norwegian	...	Typhoid Fever ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Typhoid Fever. S. O. T., aged 23 years, an A.B., on board the s.s. "Rutenfjell," lying at Barry Dock. Patient was admitted on July 31st. Some bedding, etc., from the hospital was subsequently disinfected.
" 12	7.0 a.m. ...	s.s. "Warri" ...	British	Sierra Leone ... <i>via</i> Marsilles	Malarial Fever ...	The Master reported on arrival at East Bute Dock Basin, that several members of his crew had suffered from Malarial Fever and one death had occurred on board from the same cause, whilst the Vessel was trading on the West Coast of Africa. The Vessel was disinfected and no other case occurred after leaving there.
" 15	...	s.s. "Eli Lindoe" ...	Norwegian	St. Nazaire	Diarrhoea ...	The Vessel arrived on August 14th and on the 15th, the Master reported that A. Z., and N. K., two firemen, aged 17 and 24 years, respectively, were suffering from Diarrhoea. Medical treatment recommended.
" 17	10.30 p.m. ...	s.s. "Carlyle" ...	British	Malta ...	Rheumatism ...	This Vessel arrived at Roath Dock, on August 11th, and on the 18th a notification was received from a Medical Practitioner in the City, that the Master, J. S., aged 28 years, was suffering from Typhoid Fever. He was removed to hospital and his effects and cabin were disinfected.
" 18	...	s.s. "Antigoon" ...	Belgian	Tunis ...	Typhoid Fever ...	The Master reported on arrival at Roath Dock, that W.K.P., quartermaster, aged 45 years, was laid up suffering from Rheumatism. Medical treatment recommended.
" 22	3.20 p.m. ...	s.s. "Bromma" ...	Norwegian	Rotterdam	Epilepsy ...	The Master reported on arrival at East Bute Dock Basin, that L. S., aged 27 years, fireman, was ill on board. Medical treatment obtained and he was reported to be suffering from Epilepsy. He was removed to hospital for treatment.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Aug. 23	...	s.s. "Italia"	Italian	Brindisi...	Malarial Fever	The Vessel arrived in Queen Alexandra Dock on August 17th, and on the 23rd the Master reported that five members of his crew had been sent to the Royal Hamadryad Seamen's Hospital on the 18th and four on the 19th, all suffering from Malarial Fever. M. G., aged 30 years, a fireman, died on the 21st at that institution. The water tanks on board were emptied and cleansed, also the forecastle and berths cleansed with disinfectants.
" 25	6.0 p.m.	s.s. "Vulcaimis"	French	Algiers	Scabies	On arrival at Roath Dock Basin, the Master reported that J. A., aged 28 years, a fireman, was suffering with an eruption of the skin. Medical treatment obtained and he was found to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur bath daily and his effects were disinfected.
" 29	8.35 p.m.	s.s. "Stolt"	Norwegian	Bordeaux	Diphtheria	The Master reported on arrival at East Bute Dock Basin, that C. O., aged 19 years, A.B.; also E. J., aged 31 years, an A.B., were suffering from Diarrhoea; also M. B., aged 20 years, steward, was suffering from Sore Throat. Medical treatment was obtained and M. B., was notified as suffering from Diphtheria. He was forthwith removed to the City Sanatorium and his effects collected for disinfection. Water tanks were emptied and cleansed, also berth disinfected.
Sept. 4	10.30 a.m.	s.s. "Hillingdon"	British	Rocheport	Enteritis	The Master reported on arrival at Penarth Dock, that T. R. L., 1st Officer, aged 44 years; E. S., steward, aged 22 years, and E. J., 2nd Officer, aged 61 years, were sick on board. Medical treatment obtained and they were reported to be suffering from Enteritis. The two former were treated on board and the latter went to his home at the North of England. The water tanks on board were emptied and cleansed.



TABLE II.—*continued.*

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Sept. 7	4.45 p.m. ...	s.s. "Adenwen"	British ...	Salonika <i>via</i> Gibraltar	Malarial Fever ...	The Master reported on arrival at Mount Stuart Dry Docks, that W. R., aged 25 years, gunner on board, was sick. Medical treatment was obtained and he was found to be suffering from Malarial Fever. He was removed to the Royal Hamadryad Seamen's Hospital for treatment.
" 11	7.30 a.m. ...	s.s. "C. Sundt"	Norwegian ...	Bristol ...	Gonorrhœa, ... Epididymitis and Scabies	The Master reported on arrival at Penarth Dock, that S. T., aged 40 years, steward; M. H., fireman, aged 30 years, and H. F., fireman, aged 20 years, were sick on board. Medical treatment obtained and they were found to be suffering from Gonorrhœa, Epididymitis and Scabies, respectively. The two former were treated on board and the latter sent to the Disinfecting Station for sulphur baths and his effects disinfected. The forecastles were also cleansed with disinfectants.
" 11	7.0 p.m. ...	s.s. "Harde"	Norwegian ...	St. Nazaire	Diarrhœa ...	The Master reported on arrival at East Bute Dock Basin, that T. A. S., fireman, aged 30 years, was suffering from Diarrhœa on board. Medical treatment recommended. A sample of the drinking water was submitted to the Cardiff and County Public Health Laboratory for analysis, which proved to be contaminated. The water tanks were emptied and cleansed and a fresh supply taken on board.
" 13	8.15 a.m. ...	s.s. "Cadmus"	British ...	Boulogne	Rheumatism ...	The Master reported on arrival at Penarth Dock, that W. S., steward, aged 39 years, was suffering from Rheumatism. Medical treatment recommended.
" 15	9.15 a.m. ...	s.s. "Secundo"	Norwegian ...	Caen ...	Malarial Fever ...	The Master reported on arrival at Penarth Dock, that J. R., aged 45 years (the late Master), was left in hospital at Caen, suffering from Malarial Fever. Remainder of crew well.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Sept. 18	...	s.s. "Dongarra" ...	British ...	Durban <i>via</i> Lisbon	Phthisis ...	The Master reported on arrival at Queen Alexandra Dock, that R. E. L., 1st Officer, was suffering from abdominal trouble. Medical treatment obtained and he was found to be suffering with Hernia.
" 21	2.0 p.m. ...	s.s. "Slingsby" ...	British ...	Botwood, N.F.	Hernia ...	A notification was received from a Medical Practitioner in the City, to the effect that J. McK., master, aged 45 years, was suffering from Phthisis. Patient was removed to a private nursing home in the City for treatment.
" 28	...	s.s. "Umgeni" ...	British ...	St. Nazaire "	Phthisis ...	A notification was received from a Medical Practitioner in the City, to the effect that J. K., aged 38 years, fireman, was suffering from Phthisis. He was paid off and went to his home.
Oct. 3	...	s.s. "Queen Helena" ...	British ...	Manchester	Scabies ...	This vessel sailed from the Port on September 23rd. On October 3rd, D. D., aged 18 years, engineer's steward, was reported to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur baths, and his effects were disinfected. He had been paid off from the s.s. "Queen Helena," and was staying at a boarding house in the City.
" 4	...	s.s. "Northwaite" ...	British ...	...	Erysipelas ...	The Medical Superintendent of the Royal Hamadryad Seamen's Hospital, notified a case of Erysipelas. J. T., aged 58 years, A.B., had left his ship at St. Vincent, C.V., and came as passenger to Cardiff and was admitted to hospital on September 9th.
" 6	2.0 a.m. ...	s.s. "Addington" ...	British ...	Rouen ...	Heart Disease	The Master reported on arrival at East Bute Dock Basin, that W. T., 1st Officer, aged 58 years, had been under medical treatment, whilst at Rouen, suffering from Heart Disease and that he died suddenly a few hours previous to entering dock. An inquest was held.

TABLE II.—continued

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Oct. 8	4.0 p.m.	s.s. "Newlyn"	British	Marseilles <i>via</i> Gibraltar	Phthisis	The Master reported on arrival at Penarth Dock, that M. A. fireman, aged 38 years, was left in hospital at Gibraltar on October 2nd, suffering from Phthisis. His effects were sent on shore with him.
" 11	6.30 p.m.	s.s. "Barlby"	British	Dunkirk	Influenza	The Master reported on arrival at Penarth Dock, that A. J., a fireman, was left in hospital at Dunkirk, suffering from Influenza. Remainder of crew well.
" 11	7.30 p.m.	s.s. "Emlynverne"	British	Dunkirk	Diarrhoea	The Master reported on arrival at West Bute Dock Basin, that J. McC., 2nd engineer, was laid up suffering from Diarrhoea. Medical treatment recommended and he was removed to Royal Hamadryad Seamen's Hospital.
" 11	8.30 p.m.	s.s. "Framlington Court"	British	Baltimore, U.S.A.	Typhoid Fever	The Master reported on arrival at Queen Alexandra Dock, that S. C. L., apprentice, aged 21 years, was left in hospital at Baltimore, suffering from Typhoid Fever. The berth was disinfected and effects sent on shore with him. A sample of the drinking water was taken for analysis, which proved to be of good quality.
" 16	...	s.s. "Baldwin"	Norwegian	Charente	Scabies	This vessel arrived at Penarth Dock on October 13th, and on the 16th, A. B., aged 24 years, sailor on board, was reported to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur baths and his effects were disinfected.
" 19	...	s.s. "Maliano"	Spanish	Santander	Colic	This Vessel arrived at Roath Dock on October 11th and on the 19th, P. R., 1st engineer, aged 37 years, was reported ill on board. Medical treatment obtained and he was reported to be suffering from Colic. Treated on board.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Oct. 19	...	s.s. "Dagland"	Norwegian	Havre	Scabies	This vessel arrived at Barry Dock on October 18th, from Havre and on the 19th, A. W., 1st engineer, aged 28 years, was brought up to Cardiff to see a medical man and was reported to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur baths and his effects were disinfected.
" 21	...	s.s. "Irma"	Norwegian	Treport	Scabies	This Vessel arrived at Barry Dock some days previously and on the 21st, V. N., fireman, aged 24 years, was brought to Cardiff to see a medical man and was reported to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur baths and his effects were disinfected.
" 23	...	"Pacifique"	French	Glasgow	Bronchial Catarrh	On visiting the ship, the Master reported that J. Le G., A.B., aged 32 years, was unwell on board. Medical treatment obtained, when it was found that he was suffering from Bronchial Catarrh. He was sent to the Royal Hamadryad Seamen's Hospital for treatment.
" 26	6.30 p.m.	s.s. "Terje"	Norwegian	Nantes	Rheumatism	The Master reported on arrival at Penarth Dock, that E. G., aged 24 years, a fireman, was laid up, suffering from Rheumatism. He was sent to the Royal Hamadryad Seamen's Hospital for treatment.
" 26	4.50 p.m.	s.s. "Aparima"	British	Cape Town <i>via</i> Plymouth	Measles	The Master reported on arrival at the Queen Alexandra Dock, that P. T., cadet, aged 15 years, was sick on board, suffering from Measles. He was taken sick on October 12th, whilst on passage from Cape Town to Plymouth. He was isolated and treated on board by the ship's Doctor, and in a convalescent state on arrival here. His berth and effects were subsequently disinfected.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Nov. 1	...	s.s. "Donstad"	Norwegian	Vianna ...	Scabies ...	This Vessel arrived in East Bute Dock on October 26th, and on November 1st, the Master reported that he had taken A. P., fireman, aged 20 years, and O. O., A.B., aged 18 years, to be medically examined and they were reported to be suffering from Scabies. They were sent to the Disinfecting Station for sulphur baths and their effects were disinfected.
" 4	1.15 a.m. ...	s.s. "Ernst"	British	Treport <i>via</i> St. Helens, I. of W.	Rheumatic Fever ...	The Master reported on arrival at Penarth Dock, that A. P., aged 22 years, donkeyman, was ill on board and had been medically attended whilst at St. Helens, suffering from Rheumatic Fever. He was sent to the Royal Hamadryad Seamen's Hospital for treatment.
" 5	3.40 p.m. ...	s.s. "Aral"	British	Rouen ...	Jaundice ...	The Master reported on arrival at Roath Dock, that one of the members of his crew had been left in hospital at Rouen, suffering from Jaundice.
" 7	...	s.s. "Moyunc"	British	Dunkirk ...	Scabies ...	This Vessel arrived at Roath Dock on October 5th, and on the 7th G. T. M., aged 29 years, gunner, also L. S., 4th engineer, were reported to be suffering from Scabies. They were sent to the Disinfecting Station for sulphur baths, and their effects were disinfected.
" 8	...	s.s. "Visigoth"	British	Archangel <i>via</i> Nantes	Typhoid Fever ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Typhoid Fever. A. B., aged 35 years, fireman, was admitted into hospital on November 5th from the s.s. "Visigoth," lying in the Queen Alexandra Dock. His effects removed for disinfection and the forecastle cleansed out. The ward at the hospital, also bed and bedding, were subsequently disinfected.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Nov. 13	...	s.s. "Aparima" ...	British ...	Cape Town ... <i>via</i> Plymouth	Beri Beri ...	A Medical Practitioner in the City reported that five members (Lascars) of the crew of the s.s. "Aparina" were suffering from Beri Beri. They had come from Liverpool a few days previously to join the ship. They were removed to the Royal Hamadryad Seamen's Hospital for treatment and the forecastles were disinfected.
" 13	...	s.s. "Caminha" ...	Portuguese	Bordeaux ...	Rheumatic Fever ...	This Vessel arrived at the Channel Dry Dock, on November 6th, and on the 13th it was reported that I. de S. V., the Master, was ill on board suffering from Rheumatic Lever and was being medically treated.
" 14	7.30 a.m. ...	s.s. "Gyp" ...	British ...	Sheerness ...	Rheumatism ...	The Master reported on arrival at the Windsor Slipways, that A. S., fireman, aged 24 years, was laid up suffering from Rheumatism. Medical treatment recommended.
" 14	10.30 a.m. ...	s.s. "Erandio" ...	Spanish ...	Southampton ...	Veneral Disease ...	The Master reported on arrival at Penarth Dock, that J. B., 2nd officer, aged 30 years, was laid up. Medical treatment obtained, when it was found that he was suffering from Venereal Disease.
" 17	...	s.s. "Baigorri" ...	French ...	...	Phthisis ...	The Medical Superintendent, Royal Hamadryad Seamen's Hospital, notified a case of Phthisis. S. A., fireman, aged 27 years. Patient was admitted into hospital on October 24th, from the s.s. "Baigorri," then lying at Barry Dock.
" 18	...	s.s. "Anna Sophie" ...	Norwegian	Ardrossan ...	Jaundice and Scabies	This Vessel arrived at Penarth Dock on November 16th and on the 18th, O. J., aged 27 years, fireman, was sent to the Royal Hamadryad Seamen's Hospital, suffering from Jaundice.  On the 22nd five other members of the crew were reported to be suffering from Scabies. They were sent to the Disinfecting Station for sulphur baths; their effects were disinfected; and the forecastles were thoroughly cleansed with disinfectants.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Nov. 19	1.15 p.m.	s.s. "Stanton"	Norwegian	Havre	Abdominal Abscess...	The Master reported on arrival at Penarth Dock, that O. O., aged 21 years, A. B., was ill on board. Medical treatment was obtained when it was found that he was suffering from Abdominal Abscess. He was removed to hospital for treatment.
" 20	1.0 p.m.	s.s. "Glenmorag"	British	Archangel <i>via</i> Lerwick, Cherbourg and Rouen	Small Pox	The Master reported on arrival at Mount Stuart Dry Docks, that on 15th September, 1916, whilst at Archangel, W. M., aged 44 years, steward, was removed to hospital suffering from Small Pox. Left 19th September, 1916, and on the 22nd, C. W. McK., aged 39 years, Master, was taken ill with Small Pox. Arrived at Lerwick 3rd October, 1916, and the following day he was taken to hospital, where he died the same day. R. H., 2nd officer, aged 49 years, was taken ill and sent to hospital on the 5th, also suffering from Small Pox. Personal effects were destroyed by fire; vessel and crew's effects disinfected by the Authorities at Lerwick and the remaining members of the crew vaccinated. No other case occurred up to the time of sailing from this Port.
" 20	4.0 p.m.	s.s. "Vilja"	Norwegian	Newport	Cold	The Master reported on arrival at Penarth Dock, that C. O., fireman, aged 20 years, was ill on board. Medical treatment obtained, when it was found that he was suffering from a severe cold.
" 22	...	s.s. "Capella I."	Norwegian	London	Scabies	This Vessel arrived at Queen Alexandra Dock on November 4th, and on the 22nd, K. S., 3rd engineer, was reported to be suffering from Scabies. He was sent to the Disinfecting Station for sulphur bath and his effects were disinfected.
" 23	4.0 p.m.	s.s. "Hebburn"	British	London	Typhoid Fever	The Master reported on arrival at East Bute Dock Basin, that A. K., A. B., aged 21 years, was removed to hospital on November 9th, whilst at London, suffering from Typhoid Fever. Disinfection carried out and water tanks emptied, cleansed and refilled at that port.

TABLE II.—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Nov. 25	...	...	...	...	Phthisis ...	A notification was received from a Medical Practitioner in the City to the effect that A. A., aged 30 years, a fireman, was suffering from Phthisis. He had left his vessel at Yarmouth and was staying at a boarding house in the City. He was removed to the Union Hospital for treatment.
" 27	...	s.s. "Donstad"	Norwegian	Vienna ...	Scabies ...	This Vessel arrived in East Bute Dock on November 18th and on the 27th, the Master reported that three members of his crew, viz: C. L., aged 29 years; A. O., aged 16 years, O. S., and E. G., aged 17 years, O.S., were suffering from Scabies. They were sent to the Disinfecting Station for sulphur baths; their effects disinfected, and the forecastles thoroughly cleansed with disinfectants.
Dec. 5	...	s.s. "Mont Ventoux"	French	Brest ...	Influenza ...	This Vessel arrived at Queen Alexandra Dock on December 1st, and on the 5th the Master reported that M. M., aged 31 years, 2nd engineer, was ill on board. Medical treatment obtained when it was found that he was suffering from Influenza.
" 5	...	s.s. "Dwinsk"	Russian	Glasgow	Venereal Disease ...	The Master reported on arrival at Roath Dock, that C. V., fireman, aged 50 years, and A. A., aged 25 years, A.B., were suffering from Venereal Disease. They were medically treated on board by the ship's Doctor.
" 8	...	s.s. "Oristano"	British	New York	Acute Bronchitis ...	This Vessel arrived at Queen Alexandra Dock on November 23rd, and on December 8th, the Master reported that the 1st engineer was being medically attended on board, suffering from Acute Bronchitis.
" 13	...	s.s. "Manuel"	Spanish	Glasgow	Cold ...	The Master reported that F. D., donkeyman, was ill on board, and being medically attended, suffering from a severe Cold.



TABLE II—continued.

DATE 1916	TIME	NAME OF SHIP	NATIONALITY	WHERE FROM	NATURE OF SICKNESS	GENERAL PARTICULARS.
Dec. 14	9.50 p.m. ....	s.s. "Phœbe"	British	Aguillas...	Cold ...	The Master reported on arrival at Roath Basin, that P. M., fireman, aged 45 years, was laid up suffering from a severe Cold. Medical treatment recommended and he was subsequently sent to Royal Hamdryad Seamen's Hospital.
" 18	1.0 a.m. ....	s.s. "Rossum"	Dutch	Liverpool	Pneumonia ...	The Master reported on arrival at the Channel Dry Dock, that he, himself (J. S., aged 43 years), was suffering from a severe Cold. Medical treatment recommended and on the 23rd he died from Pneumonia, after being medically attended on board.
" 21	....	s.s. "Kingfield"	British	London	Phthisis ...	A notification was received from a Medical Practitioner in the City, to the effect that J. M., fireman, aged 36 years, was suffering from Phthisis. He left the ship and went to his home at London.
" 24	....	s.s. "Kullaberg"	Swedish	St. Nazaire	Venereal Disease ...	The Master reported that J. J., aged 21 years, A.B., and K. J. O., fireman, aged 21 years, were suffering from Venereal Disease. Medical treatment recommended.
" 28	10.0 a.m. ....	s.s. "Llanover"	British	Rouen ...	Influenza ...	The Master reported on arrival at Roath Dock, that R. S., A.B., aged 48 years, was laid up on board. Medical treatment obtained, when it was found that he was suffering from Influenza.

## CHOLERA, YELLOW FEVER AND PLAGUE.

During the year 1916, only two vessels entered the Port directly from infected Ports. They were dealt with under the Cholera, Yellow Fever and Plague Regulations. 510 rats were caught and destroyed on board these two vessels.

During the year the rat-catchers were engaged on board 57 vessels and the total number of rats caught and subsequently destroyed amounted to 13,547.

The Memorandum of the Medical Officer of Health of the Local Government Board, issued to Sanitary Authorities in November, 1910, describes (1) The Symptoms of Plague; (2) The Diagnosis; (3) The Method of Spread; (4) Rats as being the source of Plague.

Your Committee are aware of the systematic destruction of rats which is carried on in your Port Sanitary District and the warehouses at the Docks. Rats have been submitted from time to time for examination to the bacteriologist of the Cardiff and County Public Health Laboratory, with a view to detecting Plague infection.

The following Table gives the results of the examination by Mr. J. H. Sugden, M.Sc., F.I.C., of seventy-seven rats from vessels in Port during the year ended December 31st, 1916.

TABLE III.

Date 1916.	No. of rats submitted.	Name of Ship.	Where from.	Result of Examination.
Jan. 4	3	s.s. "Florence Pile"	Philadelphia	Negative
" 18	3	s.s. "Oswald"	New York	Negative
Feb. 1	3	s.s. "Antonio"	Rosario via Cork	Negative
" 15	3	s.s. "Aucheneraig"	Galveston	Negative
" 29	3	s.s. "Berwindmoor"	Galveston	Negative
March 14	3	s.s. "Highland Monarch"	Bombay via Liverpool	Negative
" 28	3	s.s. "Florentino"	River Plate via Dunkirk	Negative
April 11	3	s.s. "Taiyabi"	Rosario	Negative
May 2	3	s.s. "Oristano"	New York	Negative
" 16	3	s.s. "Penhale"	Rosario	Negative
" 30	4	s.s. "Hazelwood"	Karachi via Dieppe	Negative
June 13	3	s.s. "Gordonia"	Philadelphia	Negative
" 27	4	s.s. "Pensilva"	New York	Negative
July 11	3	s.s. "Grindon Hall"	New York	Negative
Aug. 1	4	s.s. "Tregurno"	Portland, Main.	Negative
" 29	4	s.s. "Oristano"	New York	Negative
Sept. 12	3	s.s. "Barotse"	Seattle and Tacoma	Negative
" 26	3	s.s. "Trevaylor"	New York	Negative
Oct. 10	3	s.s. "Lydie"	Karachi via Port Said	Negative
" 24	3	s.s. "Teesbridge"	Buenos Ayres	Negative
Nov. 7	3	"Falkirk"	Sydney via Nantes	Negative
" 21	3	s.s. "Queen Louise"	Karachi via Port Said	Negative
Dec. 5	3	s.s. "Gouverneur de Lant- sherre"	Calais	Negative
" 12	4	s.s. "Palm Branch"	Falmouth	Negative
	77	24		

During the year Plague was reported in Arabia, Brazil, Ceylon, China, Dutch East Indies, Ecuador, Egypt, England, Greece, India, Indo-China, Japan, Mauritius, Morocco, Persia, Peru, Siam, Straits Settlements and Turkey (Asiatic).

Cholera was reported in Arabia, Ceylon, China, Dutch East Indies, Egypt, Greece, India, Indo-China, Japan, Mexico, Persia, Philippine Islands, Roumania, Straits Settlements and Turkey (Asiatic).

Yellow Fever was reported in Ecuador, French West Indies, Gold Coast, Mexico, Sierra Leone and U.S. America.

A strict examination is made of all vessels on arrival at H.M. Customs Boarding Stations during the day and night tides, whether directly or indirectly from Infected or Suspected ports.

These vessels are dealt with in accordance with the Regulations of the Local Government Board of the 9th September, 1907.

**HOSPITAL ACCOMMODATION.**—The Hospital on the Flat Holm Island is intended solely for the reception of persons suffering from Cholera, Yellow Fever, or Plague on board Ships. It consists of one pavilion containing two Wards and Nurses' Rooms, Bathrooms, Lavatories, etc. Each Ward contains six beds. In addition to and adjoining the Hospital there is a small Ward with four beds, formerly used for Cholera patients, making altogether permanent accommodation for sixteen patients. At the same time there is ample space on the Island, *i.e.*, about 40 acres, for any temporary extension which might be required. In connection with these buildings is a complete Laundry, a Mortuary, a Post-Mortem Room, and a Crematorium for the destruction of the bodies of persons dying in the Hospital or on board an infected ship. The Caretakers reside in a house adjoining the Hospital belonging to the Port Sanitary Authority, and which is used when required for administrative purposes. An arrangement exists between some other Port Sanitary Authorities and Cardiff in connection with the Hospital accommodation on the Flat Holm Island as follows :—

The Bristol Port Sanitary Authority have the use, on payment of fees, of the Crematorium on the Island for the cremation of bodies of persons dying of Cholera, Yellow Fever, or Plague within their District.

The Cardiff Port Sanitary Authority have agreed to receive into their Hospital on the Flat Holm Island, and to provide all necessary treatment and food for patients sent to the Hospital from the District of the Newport Sanitary Authority, and to cremate the bodies of any such patients who may die in the Hospital, on payment of £40 per annum, and £3 3s. per week for the first Newport patient received into the Hospital, and £2 2s. per week for every additional patient, and a sum of £7 7s. in respect of the cremation of every body of any such patient dying in the Hospital.

An agreement exists between the Port Sanitary Authorities of Cardiff and Barry of a similar character to that between Cardiff and Newport.

By agreement also the Bridgwater Port Sanitary Authority are entitled to send patients into the Cardiff Hospital on payment of an annual sum of £20, and of sums for maintenance of patients similar to the other Authorities.

#### INSPECTION OF SHIPPING.

During the year 1916, eight thousand and sixty-seven vessels were inspected on arrival. Three thousand three hundred and sixty-five extra inspections were made of work in hand and ships in dock, making a total of eleven thousand four hundred and thirty-two inspections.

Two hundred and twenty-one written notices were served on masters of vessels; nine hundred and fifty-one verbal orders were given; twenty-four letters were sent to owners or their representatives at various ports in this country and abroad in connection with nuisances and sanitary defects on board ships. Thirty-one notices were also served on masters of vessels having polluted water on board for drinking and domestic purposes, being the result of bacteriological examination and analysis at the Cardiff and County Public Health Laboratory.

The systematic inspection of shipping in the Bute and Penarth Docks has been carried out as usual with great efficiency and to my entire satisfaction by the Chief Inspector, David Jenkins, and Staff.

The following is a Summary of the routine duty of the Staff of the Medical Officer of Health :—

(1) EAST AND WEST BASINS, MOUNT STUART DRY DOCKS, AND CANAL.—One Inspector on duty from four hours flood on each tide until the gates are closed, and all vessels boarded. All vessels are boarded on arrival, whether from Foreign or Coastwise, and enquiries made as to the health of the crew, and if there has been any sickness on the voyage. A copy of the Regulations as to Infectious Diseases is handed to every Master.

(2) ROATH BASIN AND CHANNEL DRY DOCKS.—One Inspector on duty from four hours flood on each tide until the gates are closed, and all vessels boarded and examined in the same manner as No. 1.

(3) QUEEN ALEXANDRA DOCK.—Two Inspectors, one by day and one by night, from two hours flood until the gates are closed, and all vessels boarded and examined in the same manner as Nos. 1 and 2.

(4) PENARTH DOCK, ELY HARBOUR, AND WINDSOR SLIPWAYS.—Two Inspectors, one by day and one by night, from two hours flood until the gates are closed, and all vessels boarded and examined in the same manner as Nos. 1, 2, and 3. In addition to tide work, the Inspectors on day duty at Nos. 3 and 4, also visits and examines the ships in these Docks, etc., for the purpose of ascertaining the Sanitary condition of each of the ships therein.

In addition to the above, the Senior Assistant Inspector is on day work examining ships in Docks, etc.

The Chief Inspector supervises the work and assists inspections, and carries out Statutory duties in accordance with the General "Order" of the Local Government Board, dated 21st December, 1910.

The duties are arranged thus :—Each Inspector has one week on tides at Nos. 1 and 2, two weeks on tides, etc., at Nos. 3 and 4 respectively, every sixth Sunday off duty, also, one tide each off duty every Sunday.

The average time on tide duties are as follows :—

East and West Basins—Four hours.  
Roath Basin—Four-and-a-half hours.  
Queen Alexandra Dock—Eight Hours.  
Penarth Dock—Eight Hours.

The annexed Tables will afford evidence of useful work performed by the Officers of the Port Sanitary Authority, and will show that the Inspection of Shipping in the Port has resulted in a great improvement in the Sanitary condition of the floating population.

The chief defects found on board ships were :—Defective side ports and prisms, bulkheads, floors, hawse pipes and cable-casings, defective stoves, funnels and flanges, ventilator cowls and ventilation, lighting and drainage, leaky decks, defective or unlined iron decks over bunks, causing damp beds, etc., defective lamps, water tanks and casks, also defective water-closets.

As a rule very little difficulty was experienced in obtaining compliance with the requirements of the Inspectors.

Shipowners and Masters willingly carry out the recommendations of the Port Sanitary Authority, with the result that the proportion of vessels having Sanitary defects amongst those which frequent the Port has decreased in a most marked manner.

The following Table shows the number of vessels, from Foreign and Coastwise, inspected during the year 1916.

TABLE IV.

				NUMBER INSPECTED	NUMBER DEFECTIVE	NUMBER OF ORDERS ISSUED
FROM FOREIGN	...	}	Steamships	3,456	569	569
			Sailing Ships	491	86	86
			Fishing	13	3	3
				3,960	658	658
COASTWISE	...	}	Steamships	3,079	333	333
			Sailing Ships	927	49	49
			Fishing	...	...	...
				4,107	382	382
Total Foreign and Coastwise				8,067	1,040	1,040

The following Table shows the number and nationalities of the vessels inspected on arrival during the year ended December 31st, 1916.

TABLE V.

NATIONALITY.					STEAM.	SAIL.	TOTAL STEAM AND SAIL.
American...	...	...	...	...	7	4	11
Argentine	...	...	...	...	2	...	2
Belgian	...	...	...	...	71	...	71
Brazilian	...	...	...	...	1	...	1
British	...	...	...	...	3,864	885	4,749
British (Australian)	...	...	...	...	4	...	4
British (Canadian)	...	...	...	...	27	3	30
British (Indian)	...	...	...	...	2	...	2
Danish	...	...	...	...	68	9	77
Dutch	...	...	...	...	36	4	40
French	...	...	...	...	569	458	1,027
Greek	...	...	...	...	131	...	131
Italian	...	...	...	...	147	...	147
Japanese	...	...	...	...	12	...	12
Norwegian	...	...	...	...	1,203	22	1,225
Portuguese	...	...	...	...	32	11	43
Russian	...	...	...	...	57	19	76
Spanish	...	...	...	...	313	...	313
Swedish	...	...	...	...	92	3	95
Uruguayan	...	...	...	...	11	...	11
Totals					6,649	1,418	8,067

The following Table shows the number and nationalities of the vessels on which nuisances or structural defects were detected:—

TABLE VI.

NATIONALITY.	Number of Ships.	Defects detected																			CASSES.	REMEDIED.			
		Defective slide ports and ports.	Defective water closets.	Defective bulkheads and floors in crew's spaces.	Defective and leaky hose pipes and cable casings.	Defective or nailed from decks over berths.	Defective stores, tinnels and flanges in crew's spaces.	Defective ventilation.	Defective ventilation to deck water closets.	Dirty water casks and tanks.	Defective water casks and tanks.	Defective lamps.	Defective lighting.	Defective coals and ventilators in crew's spaces.	Defective drainage.	Leaky decks over berths.	Foul bilges and peaks.	Ship's stores kept in crew's spaces.	Foul accumulations.	Water closets and paint lockers adjoining and venting into crew's spaces.			Want of wood floors in crew's spaces.	Dirty forecavities and berths.	Dirty water closets.
American ...	3	5	1	...	...	1	...	...	2	...	...	...	...	1	1	...	...	...	1	...	...	...	12	12	
Belgian ...	11	4	1	1	3	1	6	...	1	...	...	...	...	1	...	...	...	...	2	...	5	2	27	26	
British ...	528	300	102	12	34	13	137	29	4	28	6	3	4	22	80	35	2	10	9	66	...	494	22	1412	1403
.. (Aust'lian)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	1	
.. (Canad'n)	5	2	2	2	...	...	2	2	...	...	...	...	1	...	...	...	...	...	...	...	...	4	1	16	16
.. (Indian)...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	3	3
Danish ...	7	2	2	...	...	3	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	11	11	
Dutch ...	5	3	...	2	...	1	...	...	...	...	...	...	...	1	1	...	...	...	1	...	1	...	10	7	
French ...	114	27	39	4	1	2	14	10	6	5	...	6	6	2	7	9	...	6	1	4	...	34	7	190	186
Greek ...	60	37	22	4	6	4	26	5	2	...	...	...	2	11	8	2	...	2	1	6	...	30	6	174	167
Italian ...	46	29	9	2	6	7	21	3	1	2	...	...	4	10	5	3	...	...	...	1	4	23	2	132	128
Japanese ...	4	1	...	5	...	2	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2	...	13	13
Norwegian ...	150	67	26	10	4	...	45	30	14	2	...	...	...	11	36	10	...	...	...	14	...	37	14	320	304
Portuguese ...	10	3	...	...	2	...	2	...	...	...	...	...	4	2	1	1	...	...	...	1	...	1	1	18	18
Russian ...	14	1	1	...	1	...	...	5	...	...	...	...	1	...	3	2	...	...	...	1	...	7	...	22	21
Spanish ...	66	36	13	2	9	4	28	9	1	...	...	1	...	1	2	5	...	...	...	2	...	22	8	143	141
Swedish ...	14	9	2	1	1	1	...	6	2	...	...	...	...	5	1	...	...	...	...	1	...	1	30	28	
Totals ...	1040	526	220	45	67	32	288	100	31	39	6	10	24	59	152	70	3	18	14	100	4661	65	2534	2485	

During the year ended December 31st, 1916, 3,690 articles of clothing belonging to seamen were disinfected by the Port Sanitary Authority and 633 dirty or infected beds were destroyed.

## CARDIFF AND COUNTY PUBLIC HEALTH LABORATORY.

## BACTERIOLOGICAL EXAMINATION OF WATER SUPPLY.

The following Table gives the results of examination by Mr. J. H. Sugden, M.Sc., F.I.C., of one hundred and five samples of drinking water from vessels entering the Port during the year ended December 31st, 1916.

TABLE VII.

1916	NAME OF SHIP	NATION-ALITY	WATER OBTAINED FROM	RESULT OF EXAMINATION
Jan. 5	s.s. "Minas" ...	Greek ...	Barcelona ...	Moderate purity
.. 7	s.s. "Darwin" ...	British ...	Philadelphia ...	Doubtful purity
.. 10	"Yuba" ...	Norwegian	Valparaiso ...	Contaminated
.. 10	s.s. "Oswald" ...	British ...	New York ...	Satisfactory
.. 11	"Erling" ...	Norwegian	Chatham, N.B. ...	Doubtful purity
.. 13	s.s. "Chios" ...	Greek ...	Leghorn ...	Doubtful purity
.. 17	s.s. "Elvaston" ...	British ...	St. Vincent, C.V. ...	Satisfactory
.. 19	s.s. "Giuseppe" ...	Italian ...	Genoa and Valencia ...	Satisfactory
.. 24	s.s. "Maplewood" ...	British ...	Galveston and Newport News ...	Satisfactory
.. 27	s.s. "Verdala" ...	British ...	Kingston, Jamaica ...	Satisfactory
.. 28	s.s. "Alexandra" ...	British ...	Baltimore, U.S.A. ...	Satisfactory
.. 31	s.s. "Castro" ...	Greek ...	Spezia ...	Satisfactory
Feb. 1	s.s. "Exmouth" ...	British ...	Marseilles ...	Satisfactory
.. 3	"Elizabeth" ...	British ...	La Rochelle ...	Moderate purity
.. 7	s.s. "Auchencraig" ...	British ...	Galveston and Havre ...	Moderate purity
.. 14	s. "John Rettig" ...	Swedish ...	Hornillo ...	Contaminated
.. 16	s.s. "Cresalubi" ...	Spanish ...	La Rochelle ...	Contaminated
.. 18	s.s. "Bakio" ...	Spanish ...	Bilbao ...	Satisfactory
.. 21	"Mimosa" ...	Norwegian	Tampa, Florida ...	Satisfactory
.. 22	s.s. "Livatho" ...	Greek ...	Rosario and Las Palmas ...	Contaminated

TABLE VII.—*continued.*

1916	NAME OF SHIP	NATION- ALITY	WATER OBTAINED FROM	RESULT OF EXAMINATION
Feb. 24	s.s. "Angola"	British	Newport News and Havre	Satisfactory
" 28	s.s. "Oiz"	Spanish	Bilbao	Satisfactory
" 29	s.s. "Antares"	Norwegian	New York	Satisfactory
March 2	s.s. "Prophet"	British	Halifax, N.S.	Satisfactory
" 7	s.s. "Hamborn"	British (Canadian)	Bayonne	Satisfactory
" 9	s.s. "Woodburn"	British	Bilbao	Satisfactory
" 13	s.s. "Glensesk"	British	Baltimore, U.S.A.	Moderate purity
" 15	s.s. "Pluto"	Dutch	Barcelona and Gibraltar	Satisfactory
" 17	s.s. "Dora"	Swedish	Newcastle and Chantenay	Satisfactory
" 20	"Trio"	Norwegian	Mobile, U.S.A.	Doubtful purity
" 22	s.s. "Frithjof"	Norwegian	Colombo, Port Said and Dunkirk	Moderate purity
" 24	s.s. "Appenine"	British	New York	Satisfactory
" 27	s.s. "Warrior"	British	Norfolk, Va.	Satisfactory
" 28	s.s. "Athanasios Siderides"	Greek	Leghorn	Satisfactory
" 29	s.s. "Josefita"	Uruguayan	Villa Garcia	Contaminated
" 30	s.s. "Ravenshoe"	British	Baltimore, U.S.A.	Moderate purity
April 3	s.s. "Rooke"	British	Algiers	Contaminated
" 7	s.s. "Heraclios"	Greek	Algiers	Satisfactory
" 10	s.s. "Baigorri"	French	Bordeaux and Bayonne	Satisfactory
" 11	s.s. "Trunkby"	British	Bilbao	Satisfactory
" 12	s.s. "Perugia"	British	Naples	Satisfactory
May 1	"Borrowdale"	Russian	Pensacola	Doubtful purity
" 3	s.s. "Amelia Campisi"	Italian	Marseilles	Satisfactory
" 4	s.s. "Donstad"	Norwegian	Vianna	Satisfactory
" 5	s.s. "Villa Garcia"	Spanish	Lisbon	Moderate purity



TABLE VII.—*continued.*

1916	NAME OF SHIP	NATION- ALITY	WATER OBTAINED FROM	RESULT OF EXAMINATION
May 8	s.s. "Demetrios Goulandris "	Greek	Leghorn and Algiers	Satisfactory
" 10	s.s. "Penhale "	British	Rosario & St. Vincent, C.V.	Satisfactory
" 11	s.s. "Quito "	British	Genoa	Satisfactory
" 12	s.s. "Iolo "	British	Portland, Main.	Doubtful purity
" 16	s.s. "East Wales "	British	Leghorn	Satisfactory
" 22	s.s. "Athanasios Siderides "	Greek	Naples	Satisfactory
" 23	s.s. "Theodoros Pangalos "	Greek	Genoa	Moderate purity
" 25	s.s. "Seatonia "	British	Halifax, N.S.	Satisfactory
" 29	s.s. "Gordonia "	British	Marseilles and Philadelphia	Moderate purity
June 1	s.s. "Tyr "	Swedish	Bordeaux	Doubtful purity
" 5	s.s. "Pengreep "	British	New York	Satisfactory
" 14	s.s. "Aldgate "	British	St. John, N.F.	Satisfactory
" 15	s.s. "Teesbridge "	British	New York	Satisfactory
" 15	s.s. "Rocio "	British	Algiers	Doubtful purity
" 20	s.s. "Delto "	Norwegian	Montreal and South Shields	Doubtful purity
" 26	s.s. "Pensilva "	British	New York	Contaminated
" 29	s.s. "Nicolaos Athanasoulis "	Greek	Marseilles and Hornillo	Satisfactory
July 10	s.s. "Grindon Hall "	British	Oran and New York	Satisfactory
" 17	s.s. "Gyp "	British	Halifax, N.S.	Doubtful purity
" 25	"Walpas "	Russian	Gulf Port	Contaminated
" 26	s.s. "Tregurno "	British	Portland, Main.	Satisfactory
" 27	s.s. "Italiana "	British	Baltimore, U.S.A.	Moderate purity
	s.s. "Arlington Court "	British	Baltimore, U.S.A. and Cette	Moderate purity
Aug. 3	s.s. "Sagama River "	British	St. Vincent, C.V., and Dunkirk	Moderate purity
" 4	s.s. "Butron "	Spanish	Bilbao	Moderate purity

TABLE VII.—*continued.*

1916	NAME OF SHIP	NATION-ALITY	WATER OBTAINED FROM	RESULT OF EXAMINATION
Aug. 10	s.s. "Port Phillip" ...	British ...	Sydney, Durban and Genoa ...	Satisfactory
" 15	s.s. "Cymric Prince" ...	British ...	New York ...	Doubtful purity
" 21	"Strix" ...	Norwegian	Halifax, N.S. ...	Doubtful purity
" 22	s.s. "Italia" ...	Italian ...	Brindisi ...	Moderate purity
" 30	s.s. "Stolt" ...	Norwegian	Newport and Bordeaux ...	Moderate purity
Sept. 4	s.s. "Hillingdon" ...	British ...	Blyth and Rochefort ...	Satisfactory
" 7	s.s. "Twilight" ...	British ...	Archangel ...	Satisfactory
	s.s. "Barotse" ...	British ...	Colon and Newport News ...	Satisfactory
" 11	s.s. "Aghia Paraskevi" ...	Greek ...	Algiers ...	Satisfactory
" 12	s.s. "Harde" ...	Norwegian	Algiers ...	Doubtful purity
" 15	s.s. "Bygdo" ...	Norwegian	Baltimore, U.S.A., and Spezia ...	Moderate purity
" 19	s.s. "Trevaylor" ...	British ...	New York ...	Satisfactory
" 20	s.s. "Yola" ...	British ...	Sierra Leone and Marseilles ...	Contaminated
" 22	s.s. "Exmouth" ...	British ...	Norfolk, Va., and Bordeaux ...	Doubtful purity
	s.s. "Ariel" ...	British ...	St. John, N.F. ...	Moderate purity
" 27	s.s. "Lydie" ...	British ...	Karachi and Port Said ...	Moderate purity
Oct. 11	s.s. "Ellerdale" ...	British ...	New York ...	Satisfactory
" 12	s.s. "Framlington Court" ...	British ...	Baltimore, U.S.A. ...	Satisfactory
" 16	s.s. "Flawyl" ...	British ...	Sydney, C.B. ...	Satisfactory
	s.s. "Teesbridge" ...	British ...	Buenos Aires and Las Palmas ...	Moderate purity
" 19	s.s. "Gena" ...	British ...	Rosario and Rochefort ...	Doubtful purity
" 23	"Apollo" ...	Danish ...	Campbeltown, N.S. ...	Doubtful purity
" 24	s.s. "Jotunfjell" ...	Norwegian	Bordeaux ...	Satisfactory
" 25	s.s. "Voltaire" ...	French ...	Corfu ...	Contaminated
" 30	"Falkirk" ...	British ...	Nantes ...	Doubtful purity

TABLE VII.—*continued.*

1916	NAME OF SHIP	NATION- ALITY	WATER OBTAINED FROM	RESULT OF EXAMINATION
Nov. 7	s.s. "Queen Louise" ...	British ...	Port Said ... ..	Contaminated
" 8	s.s. "Vicente Carsi" ...	Spanish ...	Bilbao ... ..	Moderate purity
" 13	s.s. "Mount Snowdon" ...	British ...	Marseilles and Valencia ...	Contaminated
" 15	s.s. "Baymingo" ...	British ...	Montreal, Cherbourg & Havre...	Satisfactory
" 16	s.s. "Dunclutha" ...	British ...	Sabang, Durban and Bordeaux...	Moderate purity
	s.s. "Tromp" ...	Norwegian	Savona ... ..	Contaminated
" 29	s.s. "Garryvale" ...	British ...	Cherbourg and Havre ...	Contaminated
Dec. 7	s.s. "Maston" ...	British ...	Louisberg, N.S. ... ..	Moderate purity
" 8	s.s. "Antinous" ...	British ...	Torre Annunziata ... ..	Doubtful purity
" 19	s.s. "Flixton" ...	British ...	Buenos Aires and St. Vincent, ... C.V.	Contaminated

## FOOD INSPECTION.

## IMPORTATION OF FROZEN AND CHILLED MEAT.

Two vessels only arrived in the Port of Cardiff during the year ended December 31st, 1916, with Frozen Meat, viz. : September 7th, s.s. "Brodhurst," from Madagascar via Marseilles, 1668 cases of offal ; September 9th, s.s. "El Uruguayo," from River Plate via Boulogne, 39 fore quarters of beef.

## THE PUBLIC HEALTH (REGULATIONS AS TO FOOD) ACT, 1907.

The following Table gives particulars of food dealt with during the year ended December 31st, 1916, under the Unsound Food and Foreign Meat Eegulations.

TABLE VIII.

Place of Examination.	Description of Articles destroyed or otherwise dealt with.	Tons	Cwts.	Lbs.
Queen Alexandra Dock	Beef	...	...	4
Do.	Beef (Frozen)	...	10	35
Do.	Grapes	...	10	5
Do.	Oats	...	10	...
Do.	Pears (Canned)	...	...	30
Do.	Plucks, Pigs	...	...	53
Do.	Tomatoes (Canned)	...	1	32
Do.	Wheat	...	10	...
Roath Dock	Barley	...	11	...
Do.	Biscuits	...	4	...
Do.	Oats	...	14	...
Do.	Oranges	29	1	56
Do.	Pears (Raw)	...	10	...
Do.	Rice	...	5	...
Do.	Tomatoes (Raw)	69	8	104
Do.	Wheat	1	6	28
East Bute Dock	Barley	20	5	...
Do.	Beef (Canned)	...	...	42
Do.	Cabbage	...	2	56
Do.	Chestnuts	1	2	...
Do.	Grapes	...	17	45
Do.	Maize	...	2	56
Do.	Melons	...	9	56

TABLE VIII.—*continued.*

Place of Examination.	Description of Articles destroyed or otherwise dealt with.	Tons	Cwts.	Lbs
East Bute Dock	Oats (Rolled)	...	7	56
Do.	Onions	1	14	...
Do.	Oranges	37	5	...
Do.	Potatoes	16	12	...
Do.	Tomatoes (Raw)	28	7	56
Do.	Wheat	6	...	60
West Bute Dock	Apples (Raw)	1	12	...
Do.	Apples (Canned)	...	...	3
Do.	Beef (Canned)	2	16	7½
Do.	Currants	2	14	11
Do.	Fish	*24	17	...
Do.	Milk (Condensed)	...	...	56
Do.	Mutton (Canned)	...	2	16
Do.	Onions	2	11	...
Do.	Pork (Canned)	...	...	42
Do.	Potatoes	22	3	...
Do.	Rice	...	...	42
Do.	Salmon (Canned)	...	...	16
Do.	Sugar	...	1	...
Do.	Tomatoes (Raw)	1	5	...
Do.	Veal (Canned)	...	...	6
Do.	Wheat	...	2	...
Glamorganshire Canal	Beef (Canned)	...	...	6
Do.	Tomatoes (Canned)	...	1	65
Total		275	15	36½

\* A quantity of this Fish was brought in and used for the manufacture of manure, etc.

## DISEASES OF ANIMALS ACTS, 1894 TO 1914.

(And the Orders of the Board of Agriculture and Fisheries made thereunder.)

## THE CANINE ANIMALS ORDER OF 1909, AND THE IMPORTATION OF DOGS ORDER, 1914.

During the year ended December 31st, 1916, 1,207 dogs were imported from Foreign countries, either directly or indirectly.

In each case a copy of the Order was supplied to the Master or Officer in charge of the ship on arrival, by an Officer of the Local Authority.

These ships were visited regularly during their stay in Port to see that the requirements of the Order were carried out.

Proceedings were taken on October 17th against the Master of one vessel for non-compliance with the provisions of the Importation of Dogs Order, 1914. Costs only, 5/-, were imposed.

## FOREIGN ANIMALS ORDER, 1910.

During the year ended December 31st, 1916, thirty-six vessels arrived at this Port with the following animals on board from scheduled countries, either directly or indirectly, viz. :—

Cattle, 5 : Sheep, 45 : Goats, 7 : Swine, 28 : Total, 85.

These ships were visited regularly whilst in Port to see that the Regulations of the Board of Agriculture and Fisheries were carried out.

When any of the ships left for another Port in Great Britain, the Authorities at those Ports were notified.

Proceedings were taken against the Masters of eighteen vessels for non-compliance with the requirements of the above Order.

The following gives particulars of action taken and results :—

TABLE IX.

1916				Legal proceedings (cases)	Fines and Costs
January	7th	...	...	1	16/- costs
April	6th	...	...	1	£2 and 3/6 costs
"	18th	...	...	1	Cautioned
May	19th	...	...	1	10/- and 3/6 costs
"	19th	...	...	1	10/- including costs
"	25th	...	...	1	Cautioned
June	8th	...	...	1	£1 and 3/- costs
July	12th	...	...	1	Cautioned
"	20th	...	...	1	Cautioned
"	26th	...	...	1	Cautioned
August	29th	...	...	1	5/- costs only
"	29th	...	...	1	5/- costs only
September	26th	...	...	1	10/- costs only
October	22nd	...	...	1	5/- costs only
November	8th	...	...	1	5/- costs only
"	15th	...	...	1	£1 including costs
"	22nd	...	...	1	£1 including costs
December	22nd	...	...	1	5/- costs only
Totals				18	£9 1s. 0d.

## ANNUAL REPORT OF D. JENKINS (CANAL BOAT INSPECTOR) FOR THE YEAR 1916.

Section 3 of the Canal Boats Act of 1884, provides that it shall be the duty of every Registration or Sanitary Authority within whose district, any canal, or any part of a canal is situated, to enforce within such district, the provisions of the principal Act, and this Act, and any Regulations made thereunder by the Local Government Board, and every Authority shall within twenty-one days after the 31st day of December in each year, make a report to the Local Government Board as to the execution of the Principal Act, and this Act, and of the Regulations made thereunder as aforesaid, and as to steps taken by such Authority during the year, to give effect to the provisions of the said Acts and Regulations.

(1) Canal Boats inspected during 1916	...	...	...	...	150				
Condition of Boats (Good 112, Fair 21)	...	...	...	...	133				
Infringements	...	...	...	...	17				
Occupants of Boats	...	...	...	...	All Males				
Women and Children sleeping in Canal Boats	...	...	...	...	Nil.				
 (2) Infringements :—									
(a) Registration	...	...	...	Nil.	(5) Detention of Boats for cleansing and disinfection	...	...	...	Nil.
(b) Notification of change of Master	...	...	...	Nil.	(6) Number of Boats on Register	...	...	...	18
(c) Certificates	...	...	...	Nil.	(7) Number of Boats registered during 1916...	...	...	...	Nil.
(d) Marking	...	...	...	1	(a) Motor propelled Boats	...	...	...	Nil.
(e) Overcrowding	...	...	...	Nil.	(b) Other Boats rendered necessary by structural alterations and change of Owners	...	...	...	Nil.
(f) Separation of Sexes	...	...	...	Nil.	(8) Removal from Register	...	...	...	Nil.
(g) Cleanliness	...	...	...	6	(9) Number of Boats believed to be in use or available :—	...	...	...	
(h) Ventilation	...	...	...	Nil.	(a) Motor propelled Boats	...	...	...	1
(i) Painting	...	...	...	9	(b) Not propelled by Motor	...	...	...	17
(j) Water Vessels	...	...	...	Nil.	(10) Number of Boats that cannot be traced	...	...	...	Nil.
(k) Removal of Bilge Water	...	...	...	1	(11) Number of Boats with accommodation for two males	...	...	...	17
(l) Notification of Infectious Disease	...	...	...	Nil.	(12) Number of Boats with accommodation for three males	...	...	...	1
(m) Admittance of Inspector	...	...	...	Nil.					
(n) Defective Stoves and Chimneys	...	...	...	Nil.					
(o) Roofs leaky	...	...	...	Nil.					
(p) Boats leaky	...	...	...	Nil.					
(3) Legal proceedings taken in respect of infringements	...	...	...	Nil.					
(4) Any other steps taken to secure compliance with the Acts and Regulations ? Yes, Verbal Notices.									

With regard to the Glamorganshire Canal, the upper section, north of Pontypridd, still remains closed; also the Aberdare Canal, both Sections having been closed, owing to colliery subsidence.

Unfortunately, in July, 1915, a serious breach took place in the Canal at Cilfynydd, south of the Albion Colliery. This has not yet been repaired, therefore the Company is unable to carry goods above Pontypridd. Subsidence is causing a great deal of trouble and expense on this section.

The sanitary condition of the boats is, on the whole, satisfactory.

The lighters engaged in carrying grain, patent fuel, etc., in the docks, have been periodically examined, cleansed, disinfected and repaired during the year. The fishing boats; also the fish wharves have been regularly visited, cleansed and disinfected.

I wish to record my thanks for the willing assistance given by H.M. Collector of Customs and his staff ; also the Dock Masters of the Cardiff and Penarth Docks and their Officers, as well as to the Superintendent of the Cardiff Railway Company's Police and his Staff, which has been greatly appreciated by all the Officials of the Medical Officer of Health's department.

I have the honour to be, Gentlemen,

Your obedient Servant,

EDWARD WALFORD,

*Medical Officer of Health for the Cardiff  
Port Sanitary District.*



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THE STATE OF NEW YORK  
IN SENATE  
January 15, 1891.

REPORT  
OF THE  
COMMISSIONERS OF THE LAND OFFICE  
IN ANSWER TO A RESOLUTION PASSED BY THE SENATE  
MAY 15, 1890.

ALBANY:  
PUBLISHED BY THE  
UNIVERSITY OF THE STATE OF NEW YORK,  
1891.

