Contributors

Gravesend (Kent, England). Borough Council.

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GRAVESEND



ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE YEAR 1964

G. P. MERSON M.B., Ch.B., D.P.H. Acting Medical Officer of Health



HEALTH COMMITTEE, 1964

GEORGE POLSON

THE MAYOR	(Councillor Mrs. M.O. Creese, M.B.E., J.P.)
Councillor	A. J. Shuttlewood (Chairman)
Councillor	P. J. Walsh (Vice-Chairman)
Alderman	R. H. Goodwin
Alderman	A. J. Coles
Alderman	D. I. McMillan
Councillor	C. H. Sutor
Councillor	C. A. White, J.P.
Councillor	K. C. W. Pearson
Councillor	C. J. Hodgson
Councillor	R. Farthing
Councillor	D. Manley
Councillor	J. W. Robinson
Councillor	F. G. K. Bowles

HEALTH DEPARTMENT STAFF

Acting Medical Officer of Health GEORGE POLSON MERSON, M.B., Ch.B., D.P.H.

> Chief Public Health Inspector * K. McINTYRE, M.A.P.H.I.

Deputy Chief Public Health Inspector * K. V. SPROAT, M.A.P.H.I.

District Public Health Inspectors * A. G. BRIMBLE, M. A. P. H. I. (Resigned 4th October, 1964)

* B. L. M. CLARK, M.A.P.H I.

Pupil Public Health Inspector

B. GILMOUR

Clerical Staff

A. H. BAKER, Chief Clerk to Public Health Inspector

MISS G. PUTTIFER

MRS. J. WELLS

MISS G. PARKER (Resigned 31st December, 1963)

MISS M. HYDE (Commenced 1st January, 1964) (Resigned 29th February, 1964)

MISS C. BRIGGS (Commenced 2nd March, 1964)

NOTE - * Hold Meat and Food Inspection Certificate

HEALTH DEPARTMENT, WOODVILLE TERRACE, GRAVESEND.

MADAM MAYOR, MR. CHAIRMAN AND GENTLEMEN,

I have pleasure in presenting the Annual Report on the state of the health in Gravesend for the year ending 31st December, 1964.

This is the first full year that I have been acting as Medical Officer of Health.

During the year the health of the residents has been good and there has been no outbreak of serious infectious disease.

The population of Gravesend is now estimated to be 53,590. 1,153 live births were registered during 1964 and 531 deaths occurred in the Borough. The crude birth rate was 21.15 per 1,000 and the death rate 9.90 per 1,000.

At the end of September the Refuse Collection Services were handed over to the Borough Engineer.

In January a Public Enquiry was held into the Peppercroft Street Compulsory Purchase Order. The Order was confirmed with slight modification in December 1964.

In conclusion it is a pleasure to record my thanks to the members of the Public Health Department for their hard work and co-operation during the year.

I am, Madam Mayor, Mr. Chairman and Gentlemen,

Your obedient Servant,

G. P. MERSON,

Acting Medical Officer of Health

SECTION "A"

STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH

Area of the Borough (acres)				4,619
Registrar-General's estimate of	the Pop	pulation		53, 590
Number of separate inhabited ho	uses (a	t 31.3.65))	16, 186
Rateable Value (at 31.3.65)				£1,918,430
Sum represented by a Penny Rate			bonnarite ni	£7,695
Rates (to 31st March, 1965) - 1	0s. 0d.	in the £		
Number of Dwelling Houses built	during	1964 -		
Corporation			completed	68
Private Enterprise	Number	of Units	completed	257
				325
				Service
REGISTERED LIVE BIRTHS				
		Males	Females	Total
Legitimate		566	513	1,079
Illegitimate		38	36	74
Total live bir	ths	604	549	1, 153
Crude Birth Ra	te per	1.000 popu	ulation - 21.	15
			13 HOLEPI-OO	
STILL BIRTHS				
		Males	Females	Total
Legitimate		7	4	11
Illegitimate		2	-	2
		9	4	13
the Medical C (New of Health		-		
Still Birth Rate - i.e 1,000 total (live	and st	per ill) birth	hs - 24.3	3
Still Birth Rate per 1	,000 pop	pulation	- 0.2	4

REGISTERED DEATHS - All causes at all ages - 531

Males	Females	T ot al
260	271	531

Crude Death Rate per 1,000 population - 9.90 (The previous year it was 10.36)

DEATHS FROM PUER PERAL CAUSES - Nil

NATURAL INCREASE IN POPULATION (Excess of Births over Deaths) .. 622

INFANT DEATHS - under 1 year of age

	Males	Females	Total
Legitimate Infants	 16	10	26
Illegitimate Infants	 	1	1
	16	11	27

DEATH RATE OF INFANTS UNDER 1 YEAR OF AGE :-

Infant Mortality Rate, i.e. All infants per 1,000 live births Legitimate infants per 1,000 legitimate live births Illegitimate infants per 1,000 illegitimate live births	••• ••• ••	23. 41 24. 09 13. 51
NEO-NATAL MORTALITY RATE (deaths under 4 weeks per 1,000 total live births)		16.47
EARLY NEO-NATAL MORTALITY RATE (deaths under 1 week per 1,000 total live births	• •	14.74
PERINATAL MORTALITY RATE (stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths)		25.72

COMPARATIVE BIRTH AND DEATH RATES

Rates	Gravesend	England and Wales
Birth Rate	 19.78	18.40
Death Rate	 11.78	11.30
Infant Mortality Rate	 23.41	20.00
Still Birth Rate	 00.24	00.30

BOROUGH OF GRAVESEND

BIETHS AND DEATHS

BIRTH AND DEATH RATES FOR LAST TEN YEARS

YEAR	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Number of births	773	788	793	855	911	1,040	1,069	911 1,040 1,069 1,177 1,178 1,153	1,178	1, 153
Crude Birth Rate (per 1,000 population)	16.66	16, 53	16.90		18.32 18.83 21.18	21.18	20,86	22.66	22.12	21.15
Number of deaths	496	495	445	485	497	501	502	527	552	531
Crude Death Rate (per 1,000 population)	i0.69	10, 38	9.48	9.48 10.39	10.27	10.20	9,80	10.14	10.36	9.90

6

CAUSES OF DEATH IN GRAVESEND FOR 1964 AS PROVIDED BY THE REGISTRAR GENERAL

			Male	Female	To ta 1
1.	Tuberculosis, Respiratory		4	1	5
2.	Tuberculosis, Other forms		-	-	-
3.	Syphilitic disease		1	-	1
4.	Diphtheria		-	-	-
5.	Whooping Cough		-	-	-
6.	Meningococcal infections		-	-	
7.	Acute poliomyelitis		-	-	-
8.	Measles			- Second	
9.	Other infective and parasitic disease	es		-	-
10.	Malignant neoplasm, stomach		6	4	10
11.	Malignant neoplasm, lung, bronchus		10	8	18
12.	Malignant neoplasm, breast		**	10	10
13.	Malignant neoplasm, uterus			2	2
14.	Other malignant and lymphatic neoplas	sms	27	23	50
15.	Leukaemia, aleukamia		1	1	2
16.	Diabetes		1	2	3
17.	Vascular lesions of nervous system		42	66	108
18.	Coronary disease, angina		62	32	94
19.	Hypertension with heart disease		4	3	7
20.	Other heart disease		19	36	55
21.	Other circulatory disease		11	18	29
22.	Influenza		-	-	- 10
23.	Pneumonia		8	11	19
24.	Bronchitis		19	9	28
25.	Other diseases of respiratory system		3	1	4
26.	Ulcer of stomach and duodenum		2	-	2
27.	Gastritis, enteritis and diarrhoea		2	1	3
28.	Nephritis and nephrosis		-	1	1
29.	Hyperplasia of prostate		1	-	1
30.	Pregnancy, childbirth, abortion		-	1	1
31.	Congenital malformations		7	3	10
32.	Other defined and ill-defined disease	es	17	32	49
33.	Motor vehicle accidents		3	2	5
34.	All other accidents		8	2	10
35.	Suicide		2	2	4
36.	Homicide and operations of war		-	-	**
			260	271	531

INFECTIOUS DISEASE NOTIFIED DURING 1964

Disease	Under one year		One and under 3 years	3 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 ye ars and over	Total	Number Removed to Hospital
Ophthalmia Neonatorum .			,					1		1		
Dysentery			ï	1	ı	•	1	ı		,	1	1
Erysipelas				1	1	1	•	1		,	1	1
Food Poisoning	•		1		•	•	•	1		1	,	•
Measles	. 14	eti	111	154	211	1	1	1	1	1	493	
Meningococcal Infection .				,	1	1	-	ı	•	1	1	
Pneumonia			1	,	1	1	•	1	1	,	3	•
Acute Poliomyelitis - Paralytic	ytic -		1	1	1	1	,	1	•	1	1	1
Non-Paralytic	ytic -		1	1		,	ı	5	1	1	1	1
Puerperal Pyrexia			,1		•		3			1	3	1
Scarlet Fever			ĸ	57	5	1	2	1	1	1	6	
Whooping Cough	•	~	4	2	5		•		1	1	14	
Respiratory Tuberculosis .			1	•	•	1	3	7	1	2	14	5
Non-Respiratory Tuberculosis	20		1	,	•	1	•	1	4	1	9	1
	17	-	117	158	221	2	6	10	9	5	542	7
the second se	and											

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SECTION "B"

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

LABORATORY FACILITIES

The laboratory of the Public Health Laboratory Service for this area is situated at Preston Hall, Maidstone, under the direction of Dr. Furniss.

Routine bacteriological examination of drinking water and swimming pool water and ice cream, and the examination of sterilized milk for the turbity test, are carried out at this laboratory. Results are tabulated elsewhere in the report.

Ante-Natal Clinics.
 Infant Welfare Clinics.
 Diphtheria and Poliomyelitis Immunisation Clinics.
 Dental Clinics.
 Speech Therapy Clinics.
 Child Guidance Clinics.

MIDWIFERY SERVICE

There are nine County Midwives serving the Gravesend area.

		Name		Address	Telephone	No.
Miss W.	М.	Hunt	23	Lapis Close, Chalk, Gravesend.	Gravesend	64566
Mrs. F.	E.	Dudley	25	Arnold Road, Gravesend	20	5976
Miss M.	Α.	Gaskell	1	Lapis Close, Chalk, Gravesend.	12 R. S	67772
Mrs. M.	E.	Langdon	90	Leander Drive, Gravesend	22	63052
Mrs. C.	۷.	Woodward	22	Pelham Road, Gravesend.	52	2254
Miss A.	Α.	Gibson	55	St. Margaret's Crescent, Gravesend.	27	63582
Mrs. M.	т.	Miller	21	Wye Road, Gravesend.	10	2454
Mrs. J_{ρ}	I.	Lewis	24	Havelock Road, Gravesend.	12	67503
Mrs. M.	Wa	rd	127	Vigilant Way, Gravesend.	52	5418

GRAVESEND AND NORTH KENT HOSPITAL

The Out-patient Clinics at the Hospital are as follows: -

MONDAY

9.00 a.m.	Medical Clinic	pr. J. Donaldson Craig
9.30 a.m. 2.00 p.m.	Ear, Nose and Throat Clinic Medical Clinic	Mr. Golding Wood Dr. R. Moir
2.00 p.m.	medical Gillio	DI. IV. MOII

TUESDAY

a.m.	Dental Clinic	Mr.	F.	Wilkinson	
a.m.	Dermatology Clinic	Dr.	R.	Cairns	
a.m.	Ophthalmic Clinic				
a.m.	Surgical Clinic	Mr.	Μ.	Landau	
p.m.	Fracture Clinic				
p.m.	Ante-Natal Clinic				
p.m.	Gynaecological Clinic	Mr.	Α.	M. Hunter	
	a.m. a.m. a.m. p.m. p.m.	a.m. Dermatology Clinic a.m. Ophthalmic Clinic a.m. Surgical Clinic p.m. Fracture Clinic p.m. Ante-Natal Clinic	a.m.Dermatology ClinicDr.a.m.Ophthalmic ClinicMr.a.m.Surgical ClinicMr.p.m.Fracture ClinicMr.p.m.Ante-Natal ClinicMr.	a.m.Dermatology ClinicDr. R.a.m.Ophthalmic ClinicMr. J.a.m.Surgical ClinicMr. M.p.m.Fracture ClinicMr. A.p.m.Ante-Natal ClinicMr. A.	a.m.Dermatology ClinicDr. R. Cairnsa.m.Ophthalmic ClinicMr. J. N. Ormroda.m.Surgical ClinicMr. M. Landaup.m.Fracture ClinicMr. A. M. Hunter

WEDNESDAY

9.00 a.m.	Surgical Clinic	Mr. A. M.	G. Tompkin
2.00 p.m.	Psychiatric Clinic	Dr. J. P.	Crawford
2.00 p.m.	Psychiatric Clinic	Dr. J. C.	Stewart
3.00 p.m.	Psychiatric Clinic	Dr. S. W.	Hardwick

THURSDAY

8.45 a.m.	Paediatric Clinic	Dr. F. Elgood
9.30 a.m.	Ophthalmic Clinic	Mr. G. Simmons
9.30 a.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
1.30 p.m.	Medical Clinic	Dr. J. Donaldson Craig
2.00 p.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner

FRIDAY

8.30	a.m.	Gynaecological Clinic	Mr. G. Dalley
9.00	a.m.	Dental Clinic	Mr. F. Wilkinson
10.15	a.m.	Fracture Clinic	Mr. R. H. V. Hafner
10.30	a.m.	Ante-Natal Clinic	Mr. W. Gross
2.00	p.m.	Surgical Clinic	Mr. Sol. M. Cohen
2.00	p.m.	Psychiatric Clinic	Dr. J. P Crawford
2.00	p.m.	Psychiatric Clinic	Dr. W. N. L. Haynes

MATERNITY AND CHILD WELFARE

NOTIFICATION OF BIRTHS

The number of live and still births occurring in Gravesend during the year was 1,035. After correction for those whose usual residence is elsewhere (i.e. 165 transferred "out" and 131 transferred "in") the number properly belonging to the Borough was 1,166 (1,153 live births and 13 still births) compared with 975 in the previous year.

PARTICULARS OF BIRTHS OCCURRING IN GRAVESEND:

Total number of live and still births occurring in Gravesend		1,035
Number of live births actually belonging to Gravesend	864	
Number of still births actually belonging to Gravesend	6	
Number of live births (non-residents)	158	
Number of still births (non-residents)	7	1,035

NUMBER OF BIRTHS OCCURRING IN HOSPITAL

	Births	Still Births
Number of infants born in Hospital - (residents)	305	3
Number of infants born in Hospital - (non-residents)	158	7

HEALTH VISITORS

The following Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres:-

Miss	N.	G.	Cappaert, S.R.I	N., S.C.M.	-	Windmill	street	Welfare	Centre
Miss	Μ.	C.	Craddock, S.R.	N., S.C.M.		Windmill	Street	Welfare	Centre
Miss	C.	Jan	ies, S.R.N., S.	С. М.		The	Nest	Welfare	Centre
Mrs.	G.	0.	Curling, S.R.N	., S.C.M.		The	Nest	Welfare	Centre
Miss	E.	М.	Kenworthy, S.R	.N., S.C.M.	-	Whi	tehill	Welfare	Centre
Miss	D.	Α.	Knowles, S.R.N	., S.C.M., R.	S. (C.M Whi	tehill	Welfare	Centre
Miss	J.	R.	L. Morgan, S.R	. N.		Windmill	Street	Welfare	Centre
Miss	M.	G.	F. White, S.R.	Ν.	-	Windmill	Street	Welfare	Centre
Miss	в.	Cor	kill		-	The	Nest"	Welfare	Centre
		The	following are	specialist H	leal	th Visito	rs for	tubercul	osis:-
			Miss E. M.	Martin		Mrs. C.	Roe		

The school nurse is Mrs. N. D. Shiel.

MATERNITY AND CHILD WELFARE CENTRES

The four Welfare Centres in the Borough are Wrotham "The Nest" (Denton and Chalk District), and

The sessions are as follows: -

WINDMILL STREET

Afternoon

MONDAY

Child Welfare Clinic ance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Baby weighing; etc. Sale of Foods, etc.

TUESDAY

WHITEHILL

Afternoon

Child Welfare Clinic - Child Welfare Clinic -Medical Officer in attend- Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods,

Afternoon

Ante-Natal Clinic and Midwives' Clinic combined.

WEDNESDAY

Afternoon

Mothercraft and Relaxation

Afternoon

Midwives' Clinic.

Evening

Mothercraft and Relaxation Classes.

Afternoon

Child Welfare Clinic -Medical Officer in attendance: Health Visitors Consultations; Baby weighing; Sale of Foods, etc.

Afternoon

** Mothercraft and Relax-ation Classes.

THURSDAY

Afternoon

Ante-Natal Clinic: Midwives' Clinic.

FRIDAY

Afternoon

Child Welfare Clinic -Medical Officer in attendance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.

Road (Central), Whitehill (King's Farm Estate), St. Christopher's Centre (Riverview Park).

"THE NEST"

ST. CHRISTOPHER'S CENTRE

Afternoon

MONDAY

Child Welfare Clinic -Health Visitors Consultations; Baby weighing; Sale of Foods, etc.

TUESDAY

Morning

10-12 Child Welfare Clinic: Immunisations.

Afternoon

- 2 4 Ante-Natal Clinic.
- 3 4 Child Welfare Clinic; Immunisations.

WEDNESDAY

Afternoon

Child Welfare Clinic -Medical Officer in attendance; Health Visitors Consultations; Baby Weigh-ing; Sale of Foods, etc.

THURSDAY

Morning & Afternoon

Speech Therapy Clinic.

Afternoon

- 2 4 Relaxation Classes.
- 2 4 Child Welfare Clinic; Immunisations.

FRIDAY Afternoon

* Ante-Natal Clinic; Midwives' Clinic.

Afternoon

- 2 4 Child Welfare Clinic; Immunisations.
- * First and third Fridays in each month.
 - ** Except second Friday in each month.

ATTENDANCE AT CHILD WELFARE CENTRES

The attendances at the four Welfare Centres during the year were:-

(a)	Individual children under 1 year of age	 1,072
(b)	Individual children between 1 and 5 years	 2,009
(C)	Total number of attendances of all children under 5 years	 22,021

For the year 1963 the figures were: -

(a) 1,007 (b) 1,626 (c) 21,125

ANTE-NATAL CLINICS

Ante-Natal clinics are held at Windmill Street, Whitehill, "The Nest" and St. Christopher's, Riverview Park. A total number of 1,137 expectant mothers attended and the total attendances were 5,331.

DENTAL TREATMENT

Dental treatment for expectant and nursing mothers, children under five years and school children is provided at the Dental Clinic, Manor Road. (Telephone Gravesend 64157)

The clinic is open at the following times: -

Monday t	o Friday	A. M.	9.00 -	12 noon
		P.M.	1.30 -	4.30

OPHTHALMIC TREATMENT

The County Ophthalmic Clinic for school children is held at the Gravesend and North Kent Hospital as follows: -

Monday	P.M.	1.30 -	- 4.00
Tuesday	A. M.	9.30 -	- 10.30
Thursday	P. M.	1.30	- 4.00

Mr. K. McIntyre, Chief Public Health Inspector, has supplied the statistics relating to Public Health Inspection, Housing, Food, Factory Inspection and Atmospheric Pollution.

SECTION "C"

SANITARY CIRCUMSTANCES OF THE AREA

WATER SUPPLY

PUBLIC DRINKING SUPPLIES

The Medway Water Board supply water to the Borough.

The water has been satisfactory -

(a) in quantity (b) in quality

The water is hard and there is no evidence of plumbo-solvent action.

BACTERIOLOGICAL EXAMINATION

Samples were taken at regular intervals and were found to be satisfactory with the exception of one.

Number of samples taken: -

Raw water		 	0
Treated wat	er	 	52

CHEMICAL ANALYSIS

One sample of treated water was taken and reported to be satisfactory.

> Note: Tabulated summaries of all water samples taken and results of examination are shown on pages 39, 40, 41, 42 and 43.

CORPORATION BATHING POOL

The Open-air Bathing Pool opened in 1938 has accommodation for 1,200 bathers. The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The 400,000 gallons of water in the pool are filtered, aerated and sterilised. Wide surrounds and large areas are provided for sun-bathing, whilst a spectators' terrace surrounds the site. On the first floor of the building a Cafe and Spectators' Gallery are provided, affording a splendid view of the whole site. There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1964 season the following persons used the Fools: -

Bathers and Spectators	 	122, 575
Schoolchildren	 	20,589
Season Ticket and Pass Holders	 	17,047
Club Members	 	5,622
National Sea Training School	 	1,001
		166,834

HYGIENIC ARRANGEMENTS AT BATHING POOL

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination", which was put into operation in 1948, appears to be working efficiently.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Seventeen samples were taken from the Corporation pool and 16 from school pools. See tabulated summary on pages 42 and 43.

SLIPPER BATHS

The Slipper Baths at the Corporation Bathing Pool were opened in January 1949.

There are separate sections for males and females - 7 baths being allocated to males and 3 to females.

FACTORIES ACT, 1961

The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1961.

Administrative arrangements include the following: -

Part I - Health (General Provisions)

- (1) Registration of all factories.
 - (2) Inspection of sanitary conveniences in all factories.
 - (3) Inspection with regard to cleanliness, overcrowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.
- Part IV Basement Bakehouses
 - The quinquennial examination of basement bakehouses and the renewal or cancellation of Certificates of Suitability.

Part VIII - Home Work

- Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
 - (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
 - (3) Inspection of premises in which the outworker pursues his occupation.

The provisions of the Act, so far as they affect local authorities, have been enforced.

PRESCRIBED PARTICULARS OF THE ADMINISTRATION OF THE FACTORIES ACT, 1961 PART I

Inspections for purposes of provisions as to Health (including inspections made by Public Health Inspectors)

Premises	Number on Register	Inspections	Written Notices	Owners Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be en- forced by local authorities	22	9	132	170 1977 1998
(ii) Factories not included in (i) in which Section 7 is enforced by local authorities	119	68		
(iii) Other premises in which Section 7 is enforced by the local authority (excluding outworkers premises)	5			-
	146	77		an sis

	Number of cases in which defects were found				Number of
Particulars	Found	Remedied	To H.M.	erred By H.M. Inspector	which prosecutions were instituted
Want of cleanliness	-	1	-	- '	-
Overcrowding	-		-	-	-
Unreasonable temperature	-	-	-	-	-
Inadequate ventilation	-	10.000			-
Ineffective drainage of floors	-	-		-	-
Sanitary Conveniences: - (a) insufficient (b) unsuitable	-				in in
or defective	-	1	-	-	-
<pre>(c) not separate for sexes Other offences against the Act (not including offences relating to Outwork)</pre>	-	-		-	-
	-	2	-	-	-

2. Cases in which defects were found: -

PART VIII OF THE ACT OUTWORK - SECTION 133 AND 134

Nature of Work	No. of outworkers in August list re- quired by Sec.133(1) (c)	No. of cases in default in sending lists to the Council	No. of prosecu- tions for failure to supply lists	No. of instances of work in unwhole- some premises	Notices served	Prose- cutions
Wearing apparel (making, etc.)	12		_		_	
Furniture and Upholstery	2	-	-	- acia	ant arise	11 2110
Table linen	1	-	-	-	-	1110
	15	-		al field part who	-	1.104

1.	Total number of outworkers notified to Gravesend Council in 1964 (under 1(c) of Sec. 133 Factories Act, 1961)	and a state	7
2.	Total number of outworkers notified by Gravesend Council to other Councils (under 2 of Sec. 133 Factories Act, 1961)		3
3.	Total number of outworkers notified to Gravesend by other Councils	a stored test	11
4.	Total number of outworkers employed in Gravesend		15
5.	Total number of inspections of work places (under Sec. 134(1) Factories Act, 1961)		**

BASEMENT BAKEHOUSES PART IV OF THE ACT

Certificates of suitability are in operation in respect of two basement bakehouses.

PUBLIC HEALTH INSPECTION

SUMMARY OF VISITS BY PUBLIC HEALTH INSPECTORS

Dwelling house inspections			 1,221
" " re-inspections			 1,092
Visits to other premises: -			
Clean Air Act			 57
Factories (with power)			 76
Factories (without power)			 9
Infectious diseases			 32
Offensive trades			 3
Offices, Shops & Railway Prem	ises Act		 49
Outworkers			 18
Pet Shops		** *	 7
Piggeries			 -
Public conveniences and urina	ls		 46
Rodent control			 140
Schools			 13
Shops Acts			 2
Tents, Vans, Sheds			 -
Food premises			 2,259
Miscellaneous visits			 607
Visited for purposes of meat and	food insp	ection: -	
Meat depots			 21
Shops and other premises			 118
AND THE MERICAN SUPERIOR OF ALL			1.1
			5,770

NOTICES SERVED

	Informal	Statutory
In respect of dwelling houses	 240	32
In respect of other premises	 46	-

NUISANCES AND DEFECTS REMEDIED

HOUSES:

Accumulations removed				18
Dustbins provided				130
Cesspools repaired				2
Chimney stacks - repaired				3
- new pots provide	d			2
Dampness - sub-floor ventilation	provided			2
- damp-proof courses pro	vided			17
- external walls repoint	ed or rend	lered		14
Doors and door sills repaired or	renewed			8
Drainage - relaid				23
- unstopped				40
- I.C. chambers or cover	s provided	or repair	red	8
- soil and ventilating p	ipes remov	red		2
- soil and ventilating p	ipes provi	ded or rep	paired	8
- gullies, etc. provided	or repair	ed		10
- sewers unstopped			· · ·	27
Floors relaid or repaired	• •		••	13
Guttering or rainwater pipes rene	wed or rep	aired	• •	13
Lavatory basins renewed or repair	ed			1
Paving relaid or repaired		• •		2
Roofs repaired				30
Rooms, passages and staircases -	walls repa	ired		36
	ceilings 1			7
-	staircases	repaired	• •	4
Sinks - new provided				1
- waste pipes renewed or re	paired		• •	5
Stoves and fireplaces renewed or	repaired	• •		3
Verminous premises disinfested		• •		32
Water supply - water pipes, etc.	repaired	• •		6
Water closets - repaired and/or c	leansed			3
- new pans			• •	3
- pans cleansed or	unstopped	* *		2
- cisterns provided	or repair	red		6
- seats renewed or		• •		4
Windows - renewed or repaired		• •		15
- sashcords and weights p		repaired	••	10
- sills renewed or repair	ed			17

FOOD PREMISES:

0.0 1.

Premises repaired or	cleansed		• •	28
Utensils, equipment,	etc., repaired	or cleansed		7
Improvements				12
Personal cleanliness	contraventions			3

THE RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951

Two premises are registered within the district and these have been kept under supervision.

PET ANIMALS ACT, 1951

Four premises are licensed within the district and 7 visits of inspection were made.

HOUSE AND TRADE REFUSE REMOVAL AND DISPOSAL

A further study into this service was carried out by Messrs. S. J. Noel-Brown & Co. Ltd., at a fee of £800, to establish target performance values for the purpose of establishing a bonus incentive scheme.

This service, together with salvage collection and disposal and the staffing and cleansing of the public conveniences, were transferred to the Borough Engineer & Surveyor's Department on 1st October, 1964.

RODENT CONTROL

All infested premises rotified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfestation at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out by the Rodent Officer during the year 1964:-

Number of properties inspected		298
Number of properties found to be infested by: (a) Rats		156
(b) Mice	0.00	51
Number of properties treated		207

TREATMENT AGAINST RATS IN SEWERS

Test Baiting:

Number	of	manholes	tested	• •	 196
Number	of	manholes	showing	bait taken	 25

Treatment with Poison:

Number	of	manholes	treated	about a class	1	245
Number	of	manholes	showing	complete	takes	2
Number	of	manholes	showing	partial 1	takes	28

SECTION COD?

HOUSING

1.	Insp	pection of dwelling houses during the yea	.r: -		
	(1)	Total number inspected for housing defects (under Public Health or Housing Acts.)			1,125
	(2)	Number of Inspections made for the purpose			2,108
	(3)	Number found to be in a state so dangerous or injurious to health as to be unfit for human habitation			-
	(4)	Number found not to be in all respects reasonably fit for human habitation			97
2.	Rem	edy of defects: -			
	(1)	After informal action by Local Authority			56
	(2)	After formal notice under Public Health Acts (a) by owners (b) by Local Authority in default of or		::	20
3.	Dem	olition and Closure Procedure: -			
	(1)	Number of dwelling houses in respect of which Demolition Orders were made	ch		-
	(2)	Number of dwelling houses demolished in pursuance of Demolition Orders			- 160
	(3)	Number of dwelling houses demolished as a result of informal procedure			
	(4)	Number of dwelling houses or parts of dwelling houses in respect of which Closing Orders were made			4
	(5)	Number of dwelling houses or parts of dwelling houses closed in			
		pursuance of Closing Orders			5
	(6)	Number of dwelling houses in respect of which Closing Orders were determined			3
	(7)	Number of dwelling houses demolished which were previously reported as closed			1

HOUSING ACT 1957, PART III

Peppercroft Street Compulsory Purchase Order 1963

A Public Enquiry was held into this Order and it was subsequently confirmed with some modifications. The number of unfit properties finally included in this Order was 255.

Rehousing

Thirty families were rehoused as a result of procedure under the Housing Act, 1957.

The rehousing of families from the Wakefield Street Area Compulsory Purchase Order was completed this year.

RENT ACT 1957 - FIRST SCHEDULE

Part I - Applications for Certificates of Disrepair:

(1)	Number of	applications	for	certificates			2
-----	-----------	--------------	-----	--------------	--	--	---

(2) Number of decisions not to issue certificates ... Nil

(3)	Number	of	decision	5 t(issu	e certi:	fica	tea -	
	(A)							defects	 Nil
	(b)	in	respect	of	all d	lefects			 2

- (5) Number of undertakings refused by Local Authority ... Nil

Part II - Applications for Cancellation of Certificates:

(1)	Applications by landlords to Local Authori for cancellation of certificates	ty ,,		Nil
(2)	Objections by tenants to cancellation of certificates			Nil
(3)	Decisions by Local Authority to cancel in spite of tenants' objection			Nil
(4)	Certificates cancelled by Local Authority		x 4	Nil

OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963

This Act, which came into force during 1964, makes fresh provisions for securing the health safety and welfare of persons employed in certain non-industrial premises.

At 31st December, 1964, 508 premises had been registered in the following categories: -

Offices			 107
Retail shops			 339
Wholesale shops	and wa	arehouses	 16
Catering establ	ishment	ts	 46

SECTION "E"

INSPECTION AND SUPERVISION OF FOOD

Inspection of food premises is being maintained and the following is a summary of the visits made and notices served; -

		No. of Premises	No. of Visits	Number of Notices Served
Bakehouses		9	28	to relact parties of
Butchers		42	247	4
Cake and bread shops		28	64	2
Canteens		36	30	ĩ
Catering premises		60	440	10
Confectioners		69	140	3
Cooked meat shops		22	107	1
Dairies and milkshops		80	123	The stands and a
Licensed premises, clubs,	etc.	105	144	7
Fish-frying establishmen		13	46	-
Fishmongers		15	54	1
Greengrocers		45	158	3
Ice cream premises		139	223	1
Provision dealers		103	455	5
		And a subscript of a		
		766	2,259	39
		A REAL PROPERTY.		

Note: Where premises carry on more than one type of business they are recorded under each appropriate type.

FOOD AND DRUGS ACT, 1955, SECTION 16

Premises registered:

(a)	for the sale of ice cream	n	• •	134
(b)	for the manufacture and s	sale of ice cream		5
(C)	for the preparation or ma of sausages, or potted pickled or preserved f	d, pressed,	17 0 21 17 0 0 1	65
	preserved i		TB	05

THE MILK AND DAIRIES (GENERAL) REGULATIONS, 1959

Registered dairies	* *	 • •	1
Registered milk distributors		 	79

THE MILK (SPECIAL DESIGNATION) REGULATIONS, 1960 AND 1963

Licenses issued under these Regulations, to operate until 31st December, 1965, are as follows:-

Dealers'	(Pasteurisers) Licences	 1
Dealers'	(Tuberculin Tested) Licences	 1
Dealers'	(Prepacked Milk) Licences	 79

BIOCHEMICAL EXAMINATION OF MILK

Samples of milk were taken and submitted for biochemical examination and the results were as follows: -

Designation	No. of Samples		Results	
Pasteurised	62	Methylene Blue Test	Satisfactory Unsatisfactory	62
		Phosphatase Test	Satisfactory Unsatisfactory	62
Tuberculin Tested (Pasteurised)	31	Methylene Blue Test	Satisfactory Unsatisfactory	30 1
		Phosphatase Test	Satisfactory Unsatisfactory	31
Sterilised	24	Turbidity Test	Satisfactory Unsatisfactory	24

BACTERIOLOGICAL EXAMINATION OF ICE CREAM

Samples of ice cream were taken and submitted for Bacteriological examination and the results were as follows: -

Where presizes chiry an more than one type of business they are footided under each

			Number of Samples
Grade	1	 	34
Grade	2	 	7
Grade	3	 	5
Grade	4	 	1
			47

Inspection of Food

The following food was surrendered as unfit for human consumption: -

(a) Carcase meat and offal;

Beef	213	lbs.	Pork	84 lbs.	2
Kidneys	35	lbs	Spleen	145 lbs	
Liver	54	lbs.			

(b) Frozen foods:

Fish	900	packets	Pies	6	packets
Meat	397	packets	Sponges	6	packets
Mousse	30	packets	Vegetables	108	packets
Pastry	68	packets			

(c) Miscellaneous

Baby Food		tins	Jam		tins jars
Bacon	155	lbs.	Mannalada		
Beverages		tin jars	Marmalade	3 5	tins jars
Biscuits	9	packets	Meat	1079	tins
Butter		lbs.	Milk	659	tins
Cereals		tins	Mincemeat	2	jars
		packets	Peanut Butter	1	tin
Cheese	7	lbs.	Pickles	22	jars
Chicken		lbs	Puddings	212	tins
		jars	Salad Cream	7	bottles
Coffee	1	tin	Sauce	1	bottle
Cream		tins cartons	Soup	801	tins
Custard Powder		packets	Spaghetti	1	tin
Fish		lbs	Sugar	8	lbs.
FISH		tins	Syrup	1	tin
Fruit	1635	tins	Turkey	35	lbs.
Ham		lbs.	Vegetables	$2151 \\ 5$	tins packets

Food and Drugs Act, 1955

Samples taken during the year and submitted for analysis were as follows: -

	Number	of Samples	Result	Result of Analyses	
Article	Formal	Informal	Genuine	Not Genuin	
Ammoniated tincture		and s the			
of quinine	-	2	2	-	
Buttered rolls	-	1	1	-	
Cake mix	-	1	1000	1	
Candied peel		1	1		
Chicken pate with wine	-	1	1	-	
Coffee	-	2	2	-	
Confectionery	-	5	5	-	
Cow heel	-	1	1	-	
Cream	-	2	2	-	
Dates	-	1	1	Lingala - Jay	
Egg noodles	-	1	1	-	
Faggots	-	1	1	-	
Figs	-	1	1	-	
Fish cakes	-	1	1	-	
Fruit drink	-	1	1	-	
Fruit, tinned	-	1	1	-	
Ginger	-	1	1	01202) -	
Glace cherries	-	1	1	-	
Ham	-	1	1	eed?	
Honey	-	1	- 1200	1	
Ice cream	-	2	2	-	
Ice cream powder	-	1	1	Contraction and a	
Jam	-	1	1	-	
Jelly	-	1	1	- 000	
Meat pies	-	1	1	darre -	
Medical preparations	-	9	9	-	
Milk	3	8	10	1	
Olive oil	-	1	1		
Onions, pickled	-	1	-	1	
Orangeade powder	-	1	1	-	
Pie filling	-	1	1	_	
Potato chips	-	1	1	-	
Carried forward	3	55	54	4	

Article	Number o	f Samples	Result o	f Analyses
	Formal	Informal	Genuine	Not Genuine
Brought forward	3	55	54	4
Processed peas	-	1	1	
Salmon, smoked	-	1	1	
Salmon, tinned	-	1	1	
Soup, dehydrated	-	1	1	(23) - (23)
Split peas	-	1	1	
Stuffing		1	1	Load - Chi
Tea	-	2	2	-
Fomato chutney	-	1	-	1
Tomatoes, tinned	-	1	1	-
Tumeric	-	1	1	-
Tuna fish, tinned	-	1	1	-
Whisky	-	1	1	
Vegetable salad	-	1	1	
	3	69	67	5

Particulars of Samples Adulterated or otherwise giving rise to Irregularity

Sample No.

353	Milk: Possibility of the presence of a trace of added water. A further formal sample taken from the same source was satisfactory.
388	Pickled Onions: Not labelled. This irregularity was taken up with the retailer.
389	Honey: Not labelled. This irregularity was taken up with the retailer.
396	Cake Mix: Misleading label. The distributor was informed.
411	Tomato Chutney: Added colour and preservative declared but not present. The distributor was notified.

Complaints

- (a) A tin of Blackberry and Apple Pie Filling, containing a foreign body. A warning letter was sent to the manufacturer.
- (b) Joint of Bacon, alleged to be unsound. A warning letter was sent to the retailer concerned.
- (c) Dirty Milk Bottle. A warning letter was sent to the dairy concerned.
- (d) Angel Cake affected with Mould. A letter of warning was sent to the retailer.

SECTION "F'?

PREVALENCE AND CONTROL OVER INFECTIOUS AND "OTHER DISEASES"

INFECTIOUS DISEASES

The following notifiable infectious diseases were recorded: -

Measles		 	493
Whooping Cough		 	14
Tuberculosis - Res	spiratory	 	14
- Nor	n-Respiratory	 	6
Pneumonia		 	3
Scarlet Fever		 	9
Erysipelas		 	-
Puerperal Pyrexia		 	3
Acute Poliomyeliti	is-Paralytic	 	
Dysentery		 	
Meningococcal Infe	ection	 	
			542
			~ ~ ~

DIPHTHERIA IMMUNISATION

The following is a return of the number of children resident in the Borough who were immunised against Diphtheria during the year ended 31st December, 1964:-

Year of Birth	Primary Inoculation	Re-inforcing Inoculations
1964	427	6910
1963	517	8
1962	51	400
1961	10	124
1960	8	48
1955 - 1959	15	522
1950 - 1954	2	8
	1,030	1,110

SMALLPOX PREVENTION

Vaccination is carried out at the Kent County Council Clinics and by General Practitioners.

The following is a return of the number of persons who were vaccinated against Smallpox at the Kent County Council Clinics during the year ended 31st December, 1964

Primary	Re-Vaccination
Vaccination	School Age but under 8 years

4

619

WHOOPING COUGH IMMUNISATION

The following is a return of the number of persons who were immunised against Whooping Cough during the year ended 31st December, 1964.

Year	Primary
of Birth	Immunisation
1964	426
1963	510
1962 1961	48 9
1960	6
1955 - 1959	23
1950 - 1954	1
	1,023

POLIOMYELITIS VACCINATION

The following table gives the number of persons resident in the Borough who received injections against Poliomyelitis during the year ended 31st December, 1964:-

Year of Birth	2 Injections (Salk)	3rd & 4th doses (Salk & Oral)	3 Orals (Complete Course)
1964	-	-	69
1963	-	9	651
1962	-	7	117
1961	-	0 P -	46
1949 - 1960	-	606	74
1923 - 1948	-	3	41
Others	- 010 .1	6	30
	-	631	1,028

NOTIFICATION OF NEW CASES OF TUBERCULOSIS

Year	Estimated Population of Registrar General	Pulmonary	Non - Pulmonary	Total
1955	46,390	36	3	39
1956	47.670	31	5	36
1957	46,930	29	6	35
1958	46,660	27	1	28
1959	48,370	29	3	32
1960	49,110	21	5	26
1961	51,240	20	3	23
1962	51,950	21 20 26	6	32
1963	53,250	13	4	17
1964	53,590	14	6	39 36 35 28 32 26 23 32 17 20

In 1964, 20 fresh cases were notified. The following table gives comparative particulars over the last ten years: -

The sources from which the notifications of Tuberculosis were received: -

Chest Physicians .		13
Private Medical Practition	ners	-
Hospitals and Institutions		7

AGE AND SEX DISTRIBUTION OF TUBERCULOUS PATIENTS

The following table shows the age and sex distribution of our 20 new cases:-

Åge	Pula	Pulmonary		ulmonary
Periods	Male	Female	Male	Female
0 - 1			-	**
1 - 5	-	1	-	-
5 - 10	-	1.	1	-
10 - 15		-		
15 - 20	-	-	-	-
20 - 25 25 - 35	1	1	**	1
25 - 35	3	2	-	
35 - 45	1	1	-	1
45 - 55		-	2	
55 - 65	2	-	1	-
65 & over	-	2	10 A A A A A A A A A A A A A A A A A A A	-
	7	7	4	2

TUBERCULOSIS DEATHS AND DEATH RATE

There were 5 deaths registered from Pulmonary Tuberculosis. This gives a death rate of .09 per 1,000 population for all forms of tuberculosis.

The following table compares the figures for 1964 with those of previous years: -

	Pulmonary		Non-Pulmonary		
Year	Number of deaths	Rate per 1,000 Pop.	Number of deaths	Rate per 1,000 Pop.	TOTAL Rate per 1,000 Pop
1955	9	. 19	-		. 19
1956	4	.08	1	. 02	.10
1957	7	. 14	-	012 -0	. 14
1958	5	. 11	2	.04	. 15
1959	5	. 10	-	-	. 10
1960	9	. 18	-	-	. 18
1961	10	. 19	-	-	. 19
1962	8	. 15	7		. 15
1963	3	.05	-	-	.05
1964	5	. 09	-	-	.09

TUBERCULOSIS REGISTER

The names of 53 persons were removed from the register for the following reasons: -

Deaths					8
Left the Dis	strict				10
Recovered					32
Diagnosis no	ot Conf	irmed			
Refused Publ		ical T	reatm	ent	2
Lost sight of	of				1
Emigrated					-
De-notified					-
					53

Four hundred and twenty-five persons remained on the Register at the 31st December, 1964. They consist of the following:-

	Males	Females	Total
Pulmonary	226	161	387
Non-Pulmonary	22	16	38
	248	177	425

MASS RADIOGRAPHY

Two routine visits of the radiography unit in connection with regular chest X-ray examinations of men over the age of 45 were made during 1964.

INNOCULATION AGAINST TUBERCULOSIS

A substantial number of children have been vaccinated with B.C.G.

VENEREAL DISEASES

Dr. C. D. Routh, the Medical Officer in charge of the Gravesend Clinic, has kindly supplied the following statistics:-

	Males	Females	Total
New Patients - Gravesend			
Syphilis Gonorrhoea Other conditions	24 55 81		$\frac{\begin{array}{c}2\\37\\109\\\hline148\end{array}}$
Total number of New Patients from	all areas		327
Total number of attendances from a	ll areas		1,382
Discharged cured (all districts):			
Syphilis		* *	$\begin{smallmatrix}&&6\\&33\\187\end{smallmatrix}$

VENEREAL DISEASE CLINIC - (South-Eastern Metropolitan Hospital Board)

Dr. C. D. Routh is in attendance at the Gravesend Clinic, 22 Cobham Street (telephone Gravesend 3061), at the following times:-

TUESDAY

Male	 	 11.00				
Female	 	 1.00 1	p.m.	to	2.00	р. III.

SATURDAY

Male and Female 9.00 a	 11 - 4 	CO 10,	30 a.m.
------------------------	----------------------------	--------	---------

BOROUGH MORTUARY

During the year, 113 bodies were received and 110 post-mortem examinations performed.

CORONER'S INQUESTS

H.M. Coroner has kindly supplied the following information for the year 1964:-

Total number of inquests		34
Number of inquests without post-mortems		-
Number of post-mortems without inquests	••	77
Verdicts: -		

Accidental death	ns	 	 29
Suicides		 	 5
Found drowned		 	 -
Other verdicts		 	 -

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

	Date taken	Probable numbers per 100 ml. Coliform Bact. Coli bacilli (type 1)	Plate count per ml
1. Leith Park Road	20. 1.64	None	
Pumping Station (treated)	17. 2.64	None	
	23. 3.64	None	
	20, 4,64	None	
	11. 5.64	None	
	8. 6.64	None	
	7. 7.64	None	None
	18.8.64	None	
	21. 9.64	None	
	19.10.64	None	
	17 11.64	None	
	14.12.64	None	

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		Number of Samples	Date taken	Probable numb Coliform bacilli	Probable numbers per 100 ml. Coliform Bact. Coli bacilli (type 1)	Plate count per ml.
2. Dome	Domestic Supplies	4	20. 1.64	None		
	(treated)	3	17. 2.64	None		
		1	17. 2.64	2 or more	None	
		4	23. 3.64	None		
		3	20. 4.64	None		
		3	11. 5.64	None		
		4	8. 6.64	None		
		3	7. 7.64	None		None
		3	18. 8.64	None		
		3	21. 9.64	None		
		3	19.10.64	None		
		3	17.11.64	None		
		8	14.12.64	None		

Date taken: Appearance: Odour:

16.12.64 Clear, bright None

	Parts per million
Free ammonia	0.016
Albuminoid ammonia	0.012
Nitrite	Absent
Nitrate	1.0
Chlorine as Chlorides	17
Total hardness	244
Permanent hardness	
Oxygen absorbed from Permanganate in 4 hours at 80°F	0.05
Total solids	325
pH value	7.2

The microscopic examination revealed the presence of a very little mineral or vegetable matter.

1

OPINION:

Chemically, this water is satisfactory.

WATER BACTERIOLOGICAL EXAMINATION OF BATHING POOL

	Date taken	Where taken	Probable numbers per 100 ml. Coliform Bact. Coli bacilli (type 1)	s per 100 ml. Bact. Coli (type 1)	Plate count per ml.
a) Corporation Pool	25, 5, 64	Deep end Shallow end Paddling pool	None None None		None None None
	22.6.64	Deep end Shallow end Paddling pool	None None None		None None None
	21.7 64	Deep end Shallow end Paddling pool	None None None		None None 4
	18:8.64	Deep end Shallow end Paddling pool	None None None		Uncountable 1 None
	7, 9, 64	Deep end Shailow end	None None		013
	15.9.64	Deep end Shallow end Paddling pool	None None None		None None None

WATER POOL BATHING OF EXAMINATION BACTERIOLOGICAL

1

Plate count per ml	1 1 None	None None None None	None 630 60 10	None None None None
Probable numbers per 100 ml. Coliform Bact. Coli bacilli (type 1)				
Probable numb Coliform bacilli	None None None	None None None None	None None None None	None None None None None
Where taken	Westcourt Whitehill Cecil Road	Westcourt Whitehill Cecil Road King ^e s Farm	Westcourt Whitehill Cecil Road King's Farm	Westcourt Whitehill Cecil Road King's Farm St. Joseph's
Date taken	25, 5, 64	22. 6. 64	21, 7, 64	15.9.64
	(b) School Pools			

ATMOSPHERIC POLLUTION

Data extracted from the Analyst's monthly reports was supplied to the Thameside Joint Committee in the form shown in the following tables

(See notes at end of tables for details of abbreviations)

Site: Dashwood Lane Nurseries

Month	Rain	pH		Depo	osit (grams	per 10	er 100 square metres)	
MOLULI	mm	Value	TWIM	s/cs2	Ash	OCM	TWSM	Ca	Cl	S04	TS	
1963 Oct.	27.59	6.17	202	3	153	46	322	51	14	152	524	
Nov.	77.43	5.52	184	3	143	39	314	39	44	141	498	
Dec.	9.54	7.08	235	4	176	56	343	76	33	142	578	
1964 Jan.	29.43	5.85	376	2	283	91	473	81	42	238	849	
Feb.	25.63	5.86	335	6	259	70	458	91	30	227	793	
Mar.	57.81	5.87	331	3	235	92	298	52	37	183	629	
Total	227.43	36.35	1663	21	1249	394	2208	390	200	1083	3871	
Mean	37.91	6.06	277	4	208	66	368	65	33	181	645	
Apr.	62.00	5.61	277	4	157	116	269	27	29	148	546	
May	37.02	6.09	374	3	288	83	327	49	18	162	701	
June	110.13	5.42	500	7	381	113	424	50	29	166	924	
July	20.80	6.89	478	4	402	72	311	55	18	128	789	
Aug.	23.00	7.12	343	4	261	78	293	56	18	122	636	
Sep.	9.00	5.41	305	2	201	102	270	42	14	116	575	
Total	261.95	36. 54	2277	24	1690	564	1894	279	126	842	4171	
Mean	43.66	6.09	213	4	282	94	316	47	21	140	695	

Site: Swimming Pool

Manth	Rain	pH		Depo	osit ()	grams	per 10	0 squa	are met	res)	
Month	mm	Value	TWIM	S/dS2	Ash	OCM	TWSM	Ca	C1	S04	TS
1963 Oct.	25.66	6.10	269	5	185	79	347	63	22	166	610
Nov.	69.22	5.21	195	7	142	46	400	45	53	161	595
Dec.	-	-		-	-	-	-	-	-		-
1964 Jan.	25.40	5.65	372	8	267	97	464	89	45	229	83
Feb.	21.71	5.54	338	6	250	82	408	75	33	200	74
Mar.	51.06	5.74	336	4	190	142	332	46	37	178	668
Total	192.69	28.24	1510	30	1034	446	1951	318	190	934	346
Mean	38.54	5.65	302	6	207	89	390	64	38	187	69
	55.50										
Apr.	55.53	5.53	277	6	210	61	321	48	34	163	59
May	27.90	5.88	469	5	338	126	371	56	18	173	84
June	93.70	5.44	381	7	280	93	410	42	32	185	79
July	9.21	6.24	415	5	314	96	451	57	21	138	86
Aug.	13.00	6. 28	277	8	206	63	255	58	16	127	53
Sep.	5.00	5.37	286	4	198	84	290	54	16	130	57
Total	204.34	34.74	2105	35	1546	523	2098	315	137	916	420
Mean	34.06	5.79	351	6	258	87	350	53	23	153	70

NOTE: Results for December 1963 were excessive, due to building operations on the site, and have not been included.

Abbreviations:

TOTAL PARTY AND	Webs?
TWIM	Total water insoluble matter
S/CS2	Soluble carbon disulphide
OCM	Other combustible matter
TWSM	Total water soluble matter
Ca	Calcium
Cl	Chloride
S04	Calculated as sulphate
TS	Total solids

		Mea sur	rement of Depo	osited
Site	Rainfall inches	Insoluble	r by Deposit (Soluble	Jauges Total
	inches	Deposit	Deposit	Deposit
		(tons	s per square i	
DASHWOOD LANE NU	JRSERIES			
1964 January	1.16	9.60	12.06	21.66
February	1.01	8.54	11.67	20.21
March	2.28	8.44	7.60	16.04
April	2.44	7.05	6.87	13.92
May	1.46	9.53	8.34	17.87
June	4.34	12.75	10.81	23.56
July	0.82	12.20	7.94	20.14
August	0.91	8.75	7.47	16.22
September	0.35	7.78	6.88	14.66
October	1.64	9.06	12.21	21.27
November	1.23	6.96	8.60	15.57
December	1.42	6.94	9.54	16.47
Mean	1.59	8.97	9.17	18.13
SWIMMING POOL				
1964	1.00	9.48	11.84	21.32
January		9.48 8.62	10.40	19.02
February March	0.85 2.01	8.57	8.46	17.03
	2.19	7.05	8.10	15. 24
April		11.97	9.46	21.43
May June	1.10	9.71	10.47	20.18
	3.69	10.58	11.51	22.10
July	0.36	7.07	6. 51	13.59
August	0.53	7.30	7.38	14.69
September	0.20	12.67	13.83	26.50
October November	1.44	8.05	11.88	19.93
December	1.07		8.62	19.93
December	1.08	6.26	0.02	14.09
Mean	1.29	8.94	9.88	18.83

INVESTIGATION OF ATMOSPHERIC POLLUTION, SMOKE AND SULPHUR DIOXIDE BY VOLUMETRIC METHOD

SITE: - 3 Woodville Terrace

			SMO	OKE	SULPHUR	DIOXIDE
			Microgrammes per cubic metre		Microgrammes per cubic metre	
			Average value	Highest value	Average value	Highest value
1. 12. 63	-	3. 2.64	221	370	225	656
4. 2.64	**	2. 3.64	216	843	219	697
3. 3.64	-	6. 4.64	103	202	134	303
7. 4.64	-	4. 5.64	54	162	89	209
5. 5.64	-	1. 6.64	25	70	85	283
2. 6.64	-	29. 6.64	21	40	46	124
0. 6.64	-	27. 7.64	35	172	76	200
8.7.64	-	31, 8,64	29	89	103	391
1. 9.64	-	28. 9.64	28	65	55	129
9. 9.64	-	2.11.64	134	318	161	347
3.11.64	-	30.11.64	130	401	147	712
1.12.64	-	4. 1.65	152	523	189	533

			allel .	



