



THAMES WATER UTILITIES LTD.
Water Industry Act 1991
Water Act 2003
Environmental Protection Act 1990
Environment Act 1995
Pollution Prevention and Control Act 1999
CONSENT TO THE DISCHARGE OF TRADE EFFLUENT

WHEREAS

1. Queen Mary University of London
327 Mile End Road
Tower Hamlets
London
E1 4NS

is/are the occupier(s)/owner(s) (hereinafter called THE APPLICANT) of the trade premises known as Queen Mary University of London and situate at
Whitechapel Campus
QMB Innovation Centre
42 New Road
Whitechapel
London
E1 2AX

(hereinafter called THE PREMISES) and by notice dated Seventh day of July, Two Thousand and Sixteen has/have made application to Thames Water Utilities Ltd. (hereinafter called THE COMPANY) to Consent to the discharge of Trade Effluent by him/her/them from THE PREMISES into the Company's public foul water and/or combined sewers.

2. NOW THEREFORE in exercise of the powers conferred upon it in that behalf as a sewerage undertaker by the Water Industry Act 1991, the Company

HEREBY CONSENTS to the discharge of Trade Effluent from the Premises into the sewer(s) (as hereinafter defined) subject to the following conditions:

- | | |
|------------------------|--|
| Nature and composition | <ol style="list-style-type: none">1. The nature and composition of the Trade Effluent (hereinafter called THE TRADE EFFLUENT) to be discharged under this Consent is: Waste liquids arising from research and development activities |
|------------------------|--|



- Sewer(s) affected 2. The sewer(s) into which the Trade Effluent may be discharged is/are the sewer(s) detailed below:
305mm foul sewer leading to New Road
- And more particularly shown in line(s) on the annexed plan and thereon coloured red.
The point(s) at or through which the Trade Effluent is to be discharged is/are shown on the said Plan and thereon marked blue.
- No change shall be made in such point(s) of discharge without prior Consent in writing of the Company.
- Maximum quantity to be discharged 3. The maximum quantity of the Trade Effluent which may be discharged on any one day of twenty-four hours determined from midnight to midnight shall not exceed 3.650m³.
- Maximum rate of discharge 4. a) The maximum rate at which the Trade Effluent may be discharged shall not exceed 0.500m³ per hour.
- b) The maximum rate at which the Trade Effluent may be discharged shall not exceed 0.139 litres per second.
- Matter to be eliminated prior to discharge to the sewer(s) 5. (a) There shall be eliminated from the Trade Effluent before it is discharged into the sewer(s) any matter, which, either alone or in combination with any matter with which it is likely to come into contact while passing through any sewers, would injure or obstruct any such sewers or cause injury to and/or damage to the health of any person lawfully present in such sewers, pumping stations or sewage treatment works or would makespecially difficult or expensive the treatment or disposal of their contents and in particular but withoutprejudice to the generality of the foregoing words the following matters:-
- (i) Petroleum spirit
 - (ii) Calcium carbide
 - (iii) Thiourea and thiourea derivatives
 - (iv) Non biodegradable detergents
- (b) The Trade Effluent shall not contain substances listed in Schedule 1 of the Trade Effluents (Prescribed Processes and Substances) Regulations 1989, as amended, at a concentration greater than background concentration as defined in such regulations.
- (c) The Trade Effluent shall not contain any of the substances listed in APPENDIX 1 at a concentration expressed in milligrams per litre greater than that stated.
- SEE APPENDIX 1
- Temperature 6. No Trade Effluent shall be discharged which has a temperature higher than 43.3 degrees Celsius (110 degrees Fahrenheit).
- Acidity or alkalinity 7. No Trade Effluent shall be discharged the pH value of which is less than 6.0 or greater than 11.0.
- Condensing water 8. No condensing water shall be discharged.



- Changes in occupier or process 9. The Applicant of the Premises shall forthwith give to the Company notice in writing of any changes or proposed changes in the company name, address, occupier, or processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition or the volume of the Trade Effluent or may result in the permanent cessation of the discharge.
- Commencement of Discharge 10. The commencement date of this Consent will be the date on which the Consent is signed by the Company's Senior Consultant for Wastewater Quality (or any other officer or employee duly authorised by the Company for these purposes). The Applicant must not discharge the Trade Effluent before the commencement date.
- Payment 11. The Applicant of the Premises shall pay to the Company for the Trade Effluent discharged into the sewer
- (a) A sum calculated in accordance with the provisions contained in the Company's Charges Scheme together with
 - (b) The amount of any additional expenses which the Company may from time to time incur with respect to the monitoring, analysis, reception, treatment and disposal of the Trade Effluent.
 - (c) Where samples taken by Thames Water establish that the consumer is in breach of an Agreement or a Consent, the consumer shall be liable to pay the sampling and analysis charge for each sample that was necessary to take in order to establish such a breach, which shall be the charge shown in the Trade Effluent Charges Schedule.
- All sums payable to the Company under this condition shall become due and payable on demand.
- Entry and samples 12. The Applicant of the Premises shall permit duly authorised representatives of the Company to inspect, examine and test at all reasonable times any works and apparatus installed in connection with the Trade Effluent and to take samples of the Trade Effluent.
- Inspection 13. An inspection chamber or manhole shall be provided and maintained by the Applicant of the Premises in a suitable position defined in connection with each pipe through which the Trade Effluent being discharged and such inspection chamber or manhole shall be so constructed and maintained by the Applicant as to enable duly authorised representatives of the Company to take samples at any time of the matter passing into the sewer(s) from the Premises.



Measurement and determination of discharge

14. (a) A notch gauge and continuous recorder or some other apparatus suitable and adequate for measuring and automatically recording the volume, nature, composition and rate of discharge of the Trade Effluent being discharged into the sewer(s) shall, if required by the Company be provided and maintained by the Applicant of the Premises to the satisfaction of the Company in connection with every pipe through which the Trade Effluent is being discharged.

(b) It is a requirement of this Consent that if a trade effluent meter(s) is/are installed it/they will be calibrated at least annually or more frequently if specified by the company and certificated by a suitably qualified person and/or company approved by the company.

Records

15. (a) Records in such a form as the Company may require shall be kept of the volume, rate of discharge, nature and composition of the Trade Effluent discharged into the sewer(s) and shall be available at all reasonable times for inspection by duly authorised representatives of the Company and copies of such records shall be sent to the Company on demand.

(b) If the notch gauge and continuous recorder or other apparatus aforesaid ceases to register or measure correctly then, unless otherwise agreed, the quantity of the Trade Effluent discharged into the sewer(s) during the period from the date on which the records of the volume of the Trade Effluent discharged into the sewer(s) were last accepted by the Company as being correct up to the date when the notch gauge and continuous recorder or other apparatus aforesaid again registers correctly shall, for the purpose of any payment to be made to the Company, be based on the average daily volume of the Trade Effluent discharged during the period of one month preceding the date on which the said records were last accepted as aforesaid or during the month immediately after the notch gauge and continuous recorder or other apparatus aforesaid has been corrected, whichever is the higher.

(c) The foregoing provisions of this condition shall be of no effect so long as there is available to the satisfaction of the Company some other method approved by the Company of sampling the Trade Effluent or of determining, measuring and recording the volume and rate of discharge and the nature and composition of the Trade Effluent discharged.

Vacation of Site

16. The Applicant(s) must notify the Company in writing at least 21 days in advance of the following events:
- (a) Vacation of the Premises by the Applicant for any reason, whether permanent or temporary;
 - (b) Change of ownership or occupation of the Premises;
 - (c) The Applicants entry into liquidation whether voluntarily or compulsorily or bankruptcy, if an individual;
 - (d) The presentation of a petition for the appointment of an administrator or a receiver or manager in respect of the Applicants undertakings;
 - (e) Cessation of discharge of Trade Effluent from the Premises.



Signed:

T. McHattie

Tony McHattie
Trade Effluent Manager
Duly authorised to sign on behalf of the company

Dated

8th

day of

July 2016



NOTES:

- a) All communications should be sent to the following address:
Senior Consultant - Wastewater Quality
Thames Water Utilities Ltd
Crossness Sewage Treatment Works
Belvedere Road
Abbey Wood
London
SE2 9AQ
- b) Your attention is drawn to the right of appeal to the Director General of Water Services conferred by Section 122 of the Water Industry Act 1991 if you are aggrieved by any condition attached to this Consent.
- c) A fixed charge for all sewerage services plus a domestic sewerage charge is payable in addition to charges for Trade Effluent flows.
- d) A copy of Thames Water Utilities Ltd Charges Scheme is obtainable from the Thames Water Customer Centre.
- e) If you discharge Trade Effluent in contravention of a condition of this Consent you will be guilty of a criminal offence and may be subject to prosecution.



APPENDIX 1 - SUBSTANCES

The Trade Effluent shall not contain any of the substances listed below at a concentration expressed in milligrams per litre greater than that stated:

Determinand Name	Consented Limit
Chemical Oxygen Demand	3000.0
Suspended Solids	2000.0
Sulphate	1800.0
Settleable Solids	1000.0
Rapidly Settleable Solids	100.0
Available Chlorine	50.0
Ammoniacal Nitrogen	35.0
Total Phosphorus	13.0
Sulphide	1.0

THERE ARE NO FURTHER LIMITS IN THIS APPENDIX



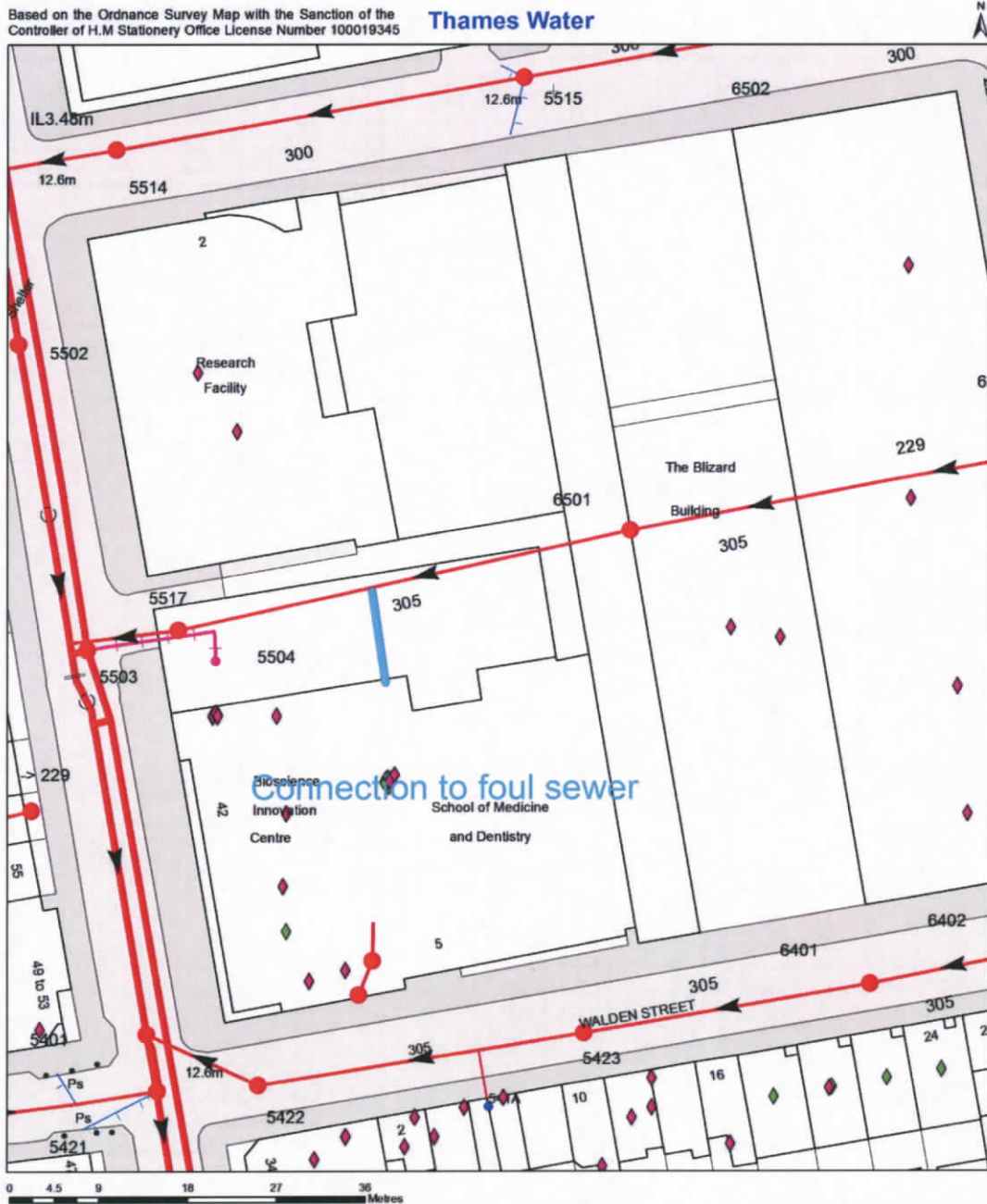
APPENDIX 2 - DISCHARGE POINTS

THERE ARE NO MORE DISCHARGE POINTS



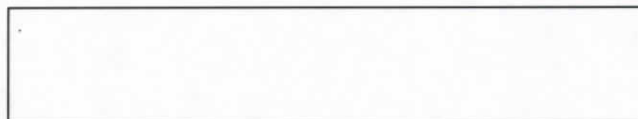
APPENDIX 3 - SEWER PLAN

Site sewer plan



The position of any boundary or apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by Thames Water for any error or omission.

Printed At (A4) : 1:500
Printed By : CPEZET
Print Date : 28/06/2016
Map Centered On : 534590,181508
Grid Reference : TQ3481





APPENDIX 4 - ADDITIONAL CLAUSES

NO ADDITIONAL CLAUSES AVAILABLE