

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Dŵr Cymru Cyfyngedig

Pwllheli Wastewater Treatment
Works
Gimblet Rock Site
Pwllheli
Gwynedd

Variation application number
CG0362401/V002

Permit number
CG0362401

Pwllheli Wastewater Treatment Works

Permit number CG0362401

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation and consolidation of an environmental permit.

The variation is to reduce the period during which UV disinfection of the effluent is required from year round to an extended bathing water season. The extended bathing water season extends from 48 hours before the start of the local school Easter fortnight holiday until 31st October.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number. It is not backdated before 6 April 2010.

Status log of the permit		
Description	Date	Comments
Application CG0362401/V002 (variation and consolidation)	Duly made 17/09/2014	Application to vary the permit to include seasonal UV conditions.
Variation determined CG0362401	29/04/2016	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

permit number
CG0362401

issued to:
Dŵr Cymru Cyfyngedig (“the operator”)

whose registered office is

Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

company registration number **02366777**

to operate a water discharge activity at

Pwllheli Wastewater Treatment Works
Gimblet Rock Site
Pwllheli
Gwynedd

to the extent set out in the schedules.

The notice shall take effect from 29/04/2016

Name

Date

Emily Roe

29/04/2016

Authorised on behalf of Natural Resources Wales

Schedule 1

The following conditions were varied as a result of an application made by the operator:

Schedule 1, table S1.1 and Schedule 3, table S3.3b

All other conditions were varied as a result of a Natural Resources Wales initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
CG0362401

This is the consolidated permit referred to in the variation and consolidation notice for application CM0362401/V002 authorising,

Dŵr Cymru Cyfyngedig (“the operator”),
whose registered office is

Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

company registration number **02366777**

to operate a water discharge activity at

Pwllheli Wastewater Treatment Works
Gimblet Rock Site
Pwllheli
Gwynedd

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Emily Roe	29/04/2016

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activity:

- (a) in accordance with a written management system that identifies and minimises risks of pollution so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of the permit.

2 Operations

2.1 Permitted activities

2.1.1 The only activity authorised by the permit is the activity specified in schedule 1 table S1.1.

2.2 The site

2.2.1 The discharge activity shall take place at the discharge point marked on the site plan at schedule 7 to this permit, and as listed in table S3.2; and, the operating techniques that are the subject of conditions prefixed by 2.3 shall be applied at the locations shown, or otherwise described, in schedule 7.

2.3 Operating techniques

2.3.1 For the activity referenced in schedule 1, table S1.1 the operator shall comply with the relevant requirements of the Urban Waste Water Treatment (England and Wales) Regulations 1994.

2.3.2

- (a) The discharge in schedule 3 table S3.3b shall consist solely of secondary treated sewage effluent which has been disinfected by means of ultra violet (UV) radiation as specified in that table.
- (b) The full dose limit in schedule 3 table S3.3b must be exceeded in at least 99% of the specified measurements in the period specified in schedule 3 table S3.3b.
- (c) No more than 10% of measurements taken consecutively during any 24 hour period from midnight to midnight should fall below the 50% dose limit specified in schedule 3 table S3.3b.
- (d) In the event of a failure of the flow monitor used in the control of the UV dosing system:
 - (i) the maximum available number of duty banks of UV lamps shall be automatically activated;
 - (ii) the minimum applied UV dose at maximum effluent flow rates calculated using the 5%ile transmittance shown in schedule 3 table S3.3b, shall not be less than the full dose limit shown in that table.
- (e) There shall be no failure to achieve the full dose limit in schedule 3 table S3.3b which is as a result of planned maintenance.

3 Emissions and monitoring

3.1 Emissions to water

3.1.1 The limits given in schedule 3 table S3.1 shall not be exceeded.

3.1.2 The limits in schedule 3 table S3.1 to which this condition applies may be exceeded where: in any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in column 1 of schedule 3A, no more than the relevant number of samples, as listed in column 2 of schedule 3A, exceed the applicable limit for that relevant parameter.

3.1.3

- (a) For the emission limits in schedule 3 table S3.1 to which this condition applies, no sample of the discharge taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment works, shall be taken into account in deciding whether or not the emission limit has been complied with.
- (b) On any occasion where unusual weather conditions adversely affect the operation of the waste water treatment works, the operator shall use its best endeavours to mitigate that adverse effect.
- (c) For any sample of the discharge taken to be considered for the purposes of (a) above, the operator shall notify Natural Resources Wales in writing within 14 days of becoming aware that an emission limit has been exceeded. The notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

3.1.4

- (a) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit then the operator shall, as soon as is practicable, investigate the reasons for the exceedance. The operator shall report the reasons for the exceedance to Natural Resources Wales and the steps that it proposes to take to restore compliance. An exceedance of the Dry Weather Flow limit shall not be recorded as a failure if the operator takes appropriate steps to restore compliance;
- (b) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit because of unusual rainfall during the 12-month period, then it will not be recorded as a failure of the Dry Weather Flow limit. For the purposes of this condition, unusual rainfall shall mean rainfall that causes significantly higher sewage flows during the three-month period that normally records the lowest flows;
- (c) The permitted Dry Weather Flow limit is set at the operator's planned annual 80% exceeded flow;
- (d) For compliance with this permit, the measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the recorded measured total daily volume values in any period of 12 months; and
- (e) For unusual rainfall to be considered, the operator shall notify Natural Resources Wales and provide supporting evidence as part of the normal specified data returns.

3.2 Emissions of substances not controlled by emission limits

3.2.1 The operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).

3.3 Monitoring

3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.4;

- (b) inlet quality specified in tables S3.1 and S3.4;
 - (c) efficacy monitoring specified in tables S3.4 and S3.5.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 Accessible monitoring points shall be provided and maintained to enable emissions monitoring programme to be carried out at the monitoring point(s) specified in table S3.4 of schedule 3 and shown marked on the site plan in schedule 7.
- 3.3.5 The monitoring programme for the parameters subject to schedule 3B shall be:
- (a) pre-scheduled to cover a calendar year and the programme recorded before the start of a calendar year sample period; and
 - (b) spot samples collected at approximately equal intervals during the year, including samples from different days of the week and different times. Approximately 10% of samples should be outside the normal sampling window which is 9am-3pm, Monday to Friday.
- 3.3.6 After becoming aware, or following a notification that a sample has not been taken on the schedule 3B Monitoring Programme pre-scheduled date, or is lost, or a result for that sample cannot be reported, the operator shall record the details and reschedule the sample.
- 3.3.7 Continuous recorders, with on-site visual display from which readings may be readily obtained, shall be provided and maintained by the operator and the following shall be measured and recorded at 15 minute intervals:
- (a) the instantaneous flow rate through each UV irradiation channel;
 - (b) the instantaneous applied UV dose for each UV irradiation channel;
 - (c) the instantaneous measured UV transmittance at the inlet to the UV irradiation plant;
 - (d) any other parameters used in calculating the UV dose.

4 Information

4.1 Records

- 4.1.1 All records required to be made by schedule 3, 4 and 5 to this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plan and management system required to be maintained by this permit.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within the time period after the end of the reporting period specified in schedule 4 table S4.1 the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and monitoring points specified in schedule 4 table S4.1;

- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

4.3.1 Natural Resources Wales shall be notified as soon as reasonably practicable following detection, within the site of the regulated facility of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution; and
- (b) any breach of a limit specified in schedule 3 table S3.1 (including individual exceedances of limits which are covered by condition 3.1.2).
- (c) Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to Natural Resources Wales as soon as reasonably practicable following detection.

4.3.2 The information provided under condition 4.3.1 shall be supported by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling specified in schedule 3B, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

4.3.5 Where the operator proposes to make a change in the nature of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:

- (a) Natural Resources Wales shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
- (b) the notification shall contain a description of the proposed change.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "as soon as reasonably practicable", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities	
Description of activity	Limits of specified activity
Discharge of secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Disinfection will take place as described in table S3.3b.

Schedule 2 – Waste types, raw materials and fuels

Schedule 2 not in use.

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Effluent and discharge point	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Dry weather flow	2349 m ³ /day	Total daily volume	N/A	Continuous	Condition 3.1.4 applies
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	ATU-BOD as O ₂	40 mg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Suspended solids (measured after drying at 105°C)	60 mg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace (Condition 3.1.3 applies)

Table S3.2 Discharge points

Effluent Name	Discharge Point	Discharge point NGR	Receiving water
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation	Outlet 1	SH38637 34035	Cardigan Bay

Table S3.3b UV process details and process limits

Effluent and discharge point	UV source	Dose type	Full dose mJ/cm ² (see condition 2.3.2(b))	50% dose mJ/cm ² (see condition 2.3.2(c))	Effective dates	5%ile transmittance
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Narrow spectrum low pressure artificial source or broad spectrum medium artificial source	Applied	32	16	48 hours prior to local schools Easter fortnight holiday to 31 st Oct inclusive.	45%

Table S3.4 Monitoring points

Effluent and discharge point	Monitoring type	Monitoring point NGR	Monitoring point reference
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Effluent sampling	SH 38521 34313	Effluent sampling point
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Pre UV treatment monitoring	SH 38521 34315	Pre UV monitoring point
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Post UV treatment monitoring	SH 38521 34313	Effluent sampling point
Secondary treated sewage effluent subject to seasonal disinfection by ultra violet irradiation via Outlet 1	Flow monitoring point	SH 38539 34327	Flow monitoring point

Table S3.5 UV efficacy monitoring point requirements

Monitoring type	Parameters	Monitoring frequency
Pre UV treatment monitoring point	No monitoring	As specified for sanitary parameters in table 3B.
Post UV treatment monitoring point	E. coli and Intestinal enterococci plus suspended solids	Monitoring for all parameters in table S3.5 to coincide.
UV radiation plant inlet monitoring point	UV transmittance at 254nm	
UV radiation channel monitoring points	Instantaneous flow rate applied dose	

Schedule 3A - Look up table

Look up table	
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given parameter
4–7	1
8–16	2
17–28	3
29–40	4
41–53	5
54–67	6
68–81	7
82–95	8
96–110	9
111–125	10
126–140	11
141–155	12
156–171	13
172–187	14
188–203	15
204–219	16
220–235	17
236–251	18
252–268	19
269–284	20
285–300	21
301–317	22
318–334	23
335–350	24
351–365	25

Schedule 3B - OSM tier 3 sampling frequency

Parameter	'Normal frequency' of samples per year	Reduced Sampling frequency after 12 consecutive months of numeric permit compliance, samples per year or pro rata over the remainder of a year	On numeric limit failure return to normal frequency as soon as reasonably practicable, samples per 12 months ¹	Out of hours samples
Sanitary	24	12	24	For 24 samples 2 out of hours samples per annum
Non sanitary	12	12	12	For 12 samples 1 out of hours sample per annum

¹ For UV efficacy monitoring use sanitary frequency and increase following failure of UV requirements only.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Monitoring point reference	Reporting period	Period begins
Dry Weather Flow (daily flows total)	Flow monitoring point	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
15-minute flow	Flow monitoring point	Reports to be provided to Natural Resources Wales upon request Report to be submitted within 2 months unless otherwise specified in writing by Natural Resources Wales	Upon request by Natural Resources Wales
Operator Self Monitoring summary report - ATU-BOD as O ₂ , suspended solids (measured after drying at 105°C)	Effluent sampling point	Quarterly Report to be submitted within 2 months	1 January, 1 April, 1 July, 1 October
Operator Self Monitoring summary report - ATU-BOD as O ₂ , suspended solids (measured after drying at 105°C)	Effluent sampling point	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
Disinfection efficacy Parameter required by conditions 2.3.2, 3.3.1 and 3.3.7 and tables S3.3b and S3.5	Effluent sampling point	Quarterly Report to be submitted within 2 months	1 January, 1 April, 1 July, 1 October

Table S4.2 Reporting forms	
Parameter	Reporting format
Dry Weather Flow (daily flows total)	WISKI electronic format specified by Natural Resources Wales
15-minute flow	WISKI electronic format specified by Natural Resources Wales
Operator Self Monitoring summary report - ATU-BOD as O ₂ , suspended solids (measured after drying at 105°C)	Quarterly - Electronic format specified by Natural Resources Wales
Operator Self Monitoring summary report - ATU-BOD as O ₂ , suspended solids (measured after drying at 105°C)	Annually - Summary report of compliance with the monitoring programme specified in Table 3.1 and Schedule 3B in a format specified by Natural Resources Wales
Disinfection efficacy	Electronic format specified by Natural Resources Wales

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	CG0362401/V002
Name of operator	Dŵr Cymru Cyfyngedig
Location of Facility	Pwllheli Wastewater Treatment works
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection unless otherwise agreed in writing by Natural Resources Wales	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released/type or nature of sewage released	
Best estimate of the quantity or rate of release of substances and/or duration of discharge	
Best estimate of the environmental impact of the discharge	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit specified in schedule 3 table S3.1 (including individual exceedances of limits which are covered by condition 3.1.2)

The information specified below is to be notified to Natural Resources Wales as soon as reasonably practicable following detection.

Monitoring point reference/ source	
Self monitoring regime (where relevant)	
Type of failure	
Date of sample/event	
Parameter	
Result and units	
Limit and units	

Part B – to be submitted as soon as reasonably practicable unless otherwise agreed in writing by Natural Resources Wales

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident/breach/exceedance	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“appropriate measures” for the purposes of the emission of substances not controlled by emission limits condition (condition 3.2.1) do not require the operator to undertake treatment to a level beyond that specified in schedule 1 table S1.1, or to carry out routine monitoring for substances not controlled by emission limits.

“ATU-BOD as O₂” means the biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea).

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the permitted activities, which are not controlled by an emission limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“MCERTS” means Natural Resources Wales’ Monitoring Certification Scheme.

“Natural Resources Wales” means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

“overflow setting” means the minimum flow passed forward to the continuation sewer when the overflow operates.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“significant pollution” means a category 1 or category 2 incident indicated by the Common Incident Classification Scheme (CICS).

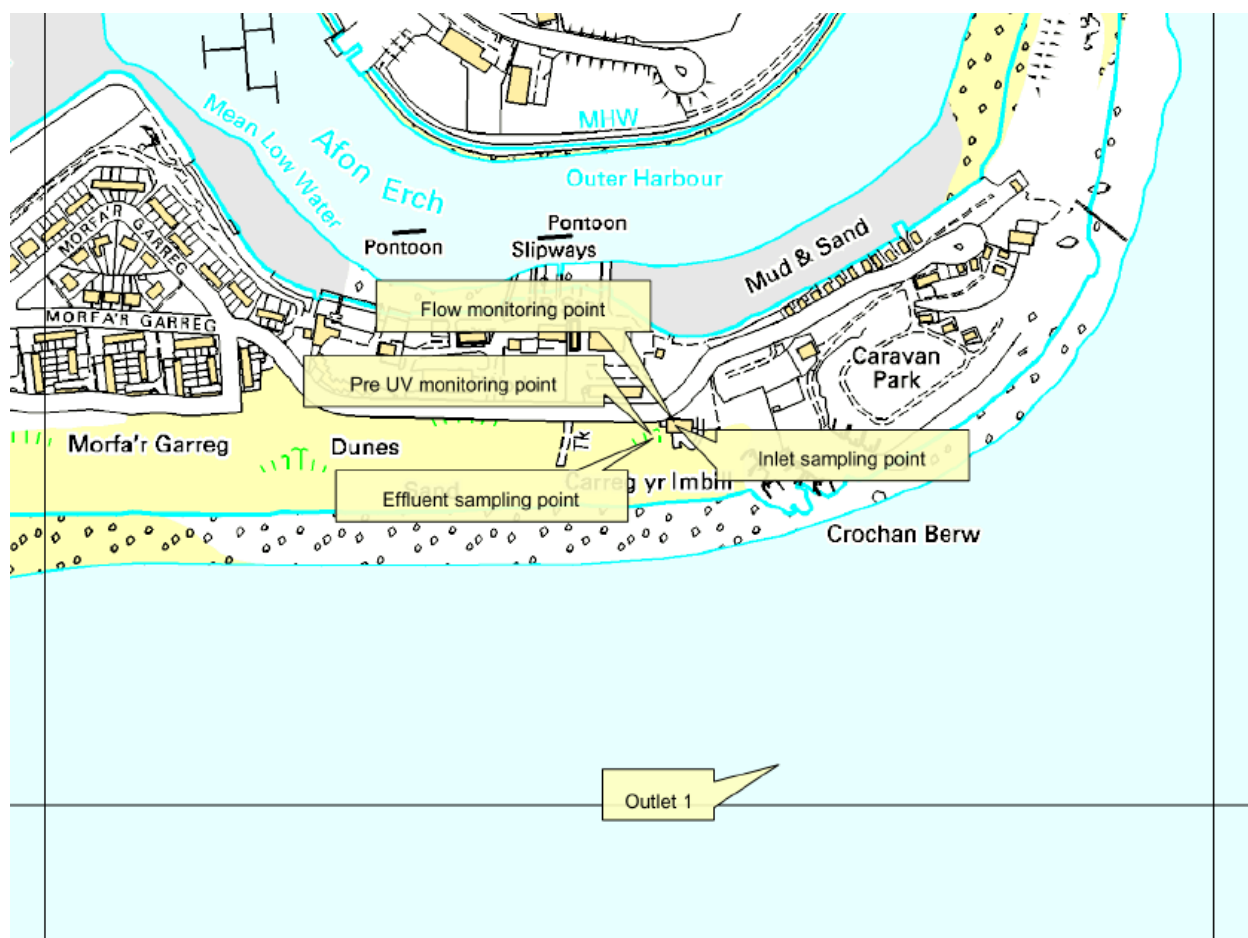
“unusual weather conditions” includes, but is not limited to:

- low ambient temperatures, or the freezing of mechanical equipment in the works;
- significant snow deposits;
- tidal or fluvial flooding;
- weather conditions causing unforeseen loss of power supply to the sewage treatment that could not be ameliorated by the reasonable provision and operation of standby generation facilities.

“Urban Waste Water Treatment (England and Wales) Regulations 1994” means Urban Waste Water Treatment (England and Wales) Regulations 1994 SI 2841 and the words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT