

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

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South West Water Limited

Wastewater treatment works at Lostwithiel

Lostwithiel

Cornwall

PL22 0JR

**Variation number**

NRA-SW-5293/V001

**Permit number**

NRA-SW-5293

# Wastewater treatment works at Lostwithiel

## Permit number NRA-SW-5293

### Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This variation reflects the AMP5 improvements made at Lostwithiel Wastewater Treatment Works and Coulson's Park Pumping Station to achieve the required 10 agglomerated storm spills per annum for shellfish waters. This has been achieved by removing the settled storm overflow at Lostwithiel WwTW and providing offline storm storage at Coulson's Park Pumping Station. This variation removes the settled storm provisions from the WwTW permit and also consolidates the permit into modern condition format.

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.

| <b>Status log of the permit</b>                         |             |   |
|---|-------------|---|
| <b>Description</b>                                      | <b>Date</b> | <b>Comments</b>   |
| Environment Agency initiated variation NRA-SW-5293/V001 | 18/04/16    | Variation to amend the AMP5 10 spills condition with the delivered scheme design. |
| Variation determined NRA-SW-5293                        | 08/01/19    | 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 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

### Permit number

**NRA-SW-5293**

### Issued to

**South West Water Limited** (“the operator”)

whose registered office is

**Peninsula House**

**Rydon Lane**

**Exeter**

**Devon**

**EX2 7HR**

company registration number 02366665

to operate a water discharge activity at

**Lostwithiel Wastewater Treatment Works**

**Lostwithiel**

**Cornwall**

**PL22 0JR**

to the extent set out in the schedules.

The notice shall take effect from 08/01/2019

| <b>Name</b>      | <b>Date</b>       |
|------------------|-------------------|
| <b>Ben Evans</b> | <b>08/01/2019</b> |

Authorised on behalf of the Environment Agency

## **Schedule 1**

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**NRA-SW-5293**

This is the consolidated permit referred to in the variation and consolidation notice for variation NRA-SW-5293/V001 authorising,

**South West Water Limited** (“the operator”),

whose registered office is

**Peninsula House**

**Rydon Lane**

**Exeter**

**Devon**

**EX2 7HR**

company registration number 02366665

to operate a water discharge activity at

**Lostwithiel Wastewater Treatment Works**

**Lostwithiel**

**Cornwall**

**PL22 0JR**

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

| <b>Name</b>      | <b>Date</b>       |
|------------------|-------------------|
| <b>Ben Evans</b> | <b>08/01/2019</b> |

Authorised on behalf of the Environment Agency

# 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 S3.3 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 S3.3 must be exceeded in at least 99% of the specified measurements in any period of 12 consecutive months.
  - (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 S3.3.
  - (d) In the event of a failure of the flow monitor and/or UV transmittance 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 S3.3, 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 S3.3 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. For relevant parameters subject to schedule 3C the assessment is based on a fixed calendar year from 1 January to 31 December inclusive.

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 the Environment Agency in writing within 14 days of becoming aware that an emission limit has been exceeded. That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

3.1.4

- (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 abnormal operating 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 abnormal operating 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 the Environment Agency in writing within 14 days of becoming aware that an emission limit has been exceeded. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works.

3.1.5

- (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 the Environment Agency 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 the Environment Agency 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 the Environment Agency, 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 specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.3.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme and/or other monitoring to be carried out at the monitoring points 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 The monitoring programme for the parameters subject to schedule 3C shall be:

- (a) pre-scheduled before each calendar year;
- (b) Unless otherwise agreed in writing by the Environment Agency, the operator shall submit the monitoring programme for the following calendar year to the Environment Agency before the 1<sup>st</sup> of December; and
- (c) samples must be collected at approximately equal intervals during the year from different days of the week and approximately 10% of samples should be taken at weekends.



- 3.3.8 Unless otherwise agreed in writing by the Environment Agency, after becoming aware, or following notification that a sample has not been taken on the schedule 3C Monitoring Programme pre-scheduled date, or is lost, or a result for that sample cannot be reported, the operator shall notify the Environment Agency of the missed event and the reschedule date as soon as reasonably practicable.
- 3.3.9 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 measured applied UV dose for each UV irradiation channel;
  - (c) the number of operational UV lamps for each UV irradiation channel;
  - (d) the instantaneous measured UV transmittance at the inlet to the UV irradiation plant;
  - (e) 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 the Environment Agency, 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 the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 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 the Environment Agency, 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 The Environment Agency 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).

Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to the Environment Agency 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling specified in schedule 3B/3C, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency 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) the Environment Agency 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.

4.3.6 The operator shall notify the Local Food Authority / Environmental Health Authority in the event of a discharge of sewage effluent which has not been subjected to the required UV dose as specified in condition 2.3.2 (c) and (d), or of power failure causing loss of secondary treatment. Such notification must be made as soon as practicable and no later than 24 hours after the event, and shall detail the reasons why the situation occurred, and the actions taken by the operator.

4.3.7 For the activity referenced in schedule 1, table S1.1 the operator shall inform the Environment Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Environment Agency in writing of the actual population equivalent.

## **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

| <b>Table S1.1 Activities</b>  |   |
|---|---|
| <b>Description of activity</b>  | <b>Limits of specified activity</b>   |
| Discharge of secondary treated sewage effluent subject to disinfection by ultra violet irradiation via Outlet 1 and/or Outlet 2 | A discharge via Outlet 2 shall only occur when tide levels are such that the soffit of Outlet 1 is submerged. |

## 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(s) and discharge point(s)   | Parameter   | Limit (including unit)      | Reference Period            | Limit of effective range | Monitoring frequency        | Compliance Statistic                             |
| Secondary treated sewage effluent subject to disinfection by ultra violet irradiation via Outlet 1 and/or Outlet 2 | Dry weather flow                                  | 1079 m <sup>3</sup> /day    | Total daily volume          | N/A                      | Continuous                  | Condition 3.1.5 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 <sub>2</sub>                         | 25 mg/l                     | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Look up table (Conditions 3.1.2 and 3.1.3 apply) |
|  | ATU-BOD as O <sub>2</sub>                         | 60 mg/l                     | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum (Condition 3.1.3 applies)                |
|  | Ammoniacal nitrogen (expressed as N)              | 13 mg/l                     | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Look up table (Conditions 3.1.2 and 3.1.3 apply) |
|  | Ammoniacal nitrogen (expressed as N)              | 42 mg/l                     | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum (Condition 3.1.3 applies)                |
|  | Suspended solids (measured after drying at 105°C) | 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) | 96 mg/l                     | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum (Condition 3.1.3 applies)                |

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

| <b>Effluent(s) and discharge point(s)</b> | <b>Parameter</b>                  | <b>Limit (including unit)</b>                                    | <b>Reference Period</b>            | <b>Limit of effective range</b>  | <b>Monitoring frequency</b> | <b>Compliance Statistic</b>                      |
|---|-----------------------------------|--|------------------------------------|--|-----------------------------|--|
|   | 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)   |
|   | ATU-BOD as O <sub>2</sub> (UWWTR) | Minimum of 70 % removal compared to influent                     | 24 hour composite                  | To be compliant a sample has to meet the 70% removal standard or the 25 mg/l limit not both  | As specified in schedule 3C | Look up table (Conditions 3.1.2 and 3.1.4 apply) |
|   | ATU-BOD as O <sub>2</sub> (UWWTR) | 25 mg/l  |                                    |  |                             |  |
|   | ATU-BOD as O <sub>2</sub> (UWWTR) | 50 mg/l  | 24 hour composite                  | This limit does not apply if a sample has met the 70% removal standard                       | As specified in schedule 3C | Maximum (Condition 3.1.4 applies)                |
|   | COD as O <sub>2</sub> (UWWTR)     | Minimum of 75 % removal compared to influent                     | 24 hour composite                  | To be compliant a sample has to meet the 75% removal standard or the 125 mg/l limit not both | As specified in schedule 3C | Look up table (Conditions 3.1.2 and 3.1.4 apply) |
|   | COD as O <sub>2</sub> (UWWTR)     | 125 mg/l   |                                    |  |                             |  |
|   | COD as O <sub>2</sub> (UWWTR)     | 250 mg/l   | 24 hour composite                  | This limit does not apply if a sample has met the 75% removal standard                       | As specified in schedule 3C | Maximum (Condition 3.1.4 applies)                |

| <b>Effluent Name</b>  | <b>Discharge Point</b> | <b>Discharge point NGR</b> | <b>Receiving water/Environment</b> |
|---|------------------------|----------------------------|------------------------------------|
| Secondary treated sewage effluent subject to disinfection by ultra violet irradiation | Outlet 1               | SX 1086 5850               | River Fowey (Estuarine)            |
|   | Outlet 2               | SX 1074 5862               | River Fowey (Estuarine)            |

| <b>Effluent(s) and discharge point(s)</b>  | <b>UV source</b>   | <b>Dose type</b> | <b>Full dose mJ/cm<sup>2</sup> (see condition 2.3.2(b))</b> | <b>50% dose mJ/cm<sup>2</sup> (see condition 2.3.2(c))</b> | <b>Effective dates</b> | <b>5%ile transmittance</b> |
|--|--|------------------|---|--|------------------------|----------------------------|
| Secondary treated sewage effluent subject to disinfection by ultra violet irradiation via Outlet 1 and/or Outlet 2 | Narrow spectrum low pressure artificial UV source with at least 85% of available UV radiation emitted in the wavelength range 250 to 260nm | Measured applied | 30  | 15   | 1st Jan - 31st Dec     | 45%                        |

| <b>Effluent(s) and discharge point(s)</b>  | <b>Monitoring type</b>  | <b>Monitoring point NGR</b> | <b>Monitoring point reference</b> |
|--|---|-----------------------------|-----------------------------------|
| Secondary treated sewage effluent subject to disinfection by ultra violet irradiation via Outlet 1 and/or Outlet 2 | UWWTR influent sampling   | SX 1066 5865                | M1                                |
|  | UWWTR effluent sampling   | SX 1071 5861                | M4                                |
|  | Effluent sampling   | SX 1071 5861                | M4                                |
|  | MCerts flow monitoring  | SX 1070 5865                | M3                                |
|  | Pre UV treatment monitoring   | SX 1070 5862                | M2                                |
|  | Post UV treatment monitoring  | SX 1071 5861                | M4                                |
|  | UV irradiation plant inlet monitoring as specified by condition 3.3.9 | SX 1070 5862                | M2                                |
|  | UV irradiation channel monitoring as specified by condition 3.3.9     | SX 1071 5862                | UV1                               |

| <b>Table S3.5 UV efficacy monitoring point requirements</b> |  |   |
|---|--|---|
| <b>Monitoring type</b>                                      | <b>Parameters</b>                                | <b>Monitoring frequency</b>   |
| Pre UV treatment monitoring                                 | No monitoring                                    | As specified for sanitary parameters in table 3B.<br>Monitoring for all parameters in table S3.5 to coincide. |
| UV irradiation plant inlet monitoring                       | UV transmittance at 254nm                        |   |
| UV Irradiation channel monitoring                           | Instantaneous flow rate<br>Measured applied dose |   |
| Post UV treatment monitoring                                | Esherichia Coli (E.coli)<br>Suspended solids     |   |



## 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 <sup>1</sup> | 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  |

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

## Schedule 3C – Urban Waste Water Treatment Regulations sampling frequency

| Population equivalent | Samples per year | Reduced sampling frequency after a year without an UWWTR exceedance or failure, samples per year | Following an UWWTR exceedance or failure return to the higher frequency in the year that follows, samples per year |
|-----------------------|------------------|--|--|
| 2,000 to 9,999        | 12               | 4  | 12   |
| 10,000 to 49,999      | 12               | N/A  | N/A  |
| 50,000 or over        | 24               | N/A  | N/A  |

## Schedule 4 – Reporting

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

| <b>Table S4.1 Reporting of monitoring data</b>   |                                   |  |  |
|--|-----------------------------------|--|--|
| <b>Parameter</b>   | <b>Monitoring point reference</b> | <b>Reporting period</b>  | <b>Period begins</b>                   |
| Dry Weather Flow (daily flows total)   | M3                                | Annually<br>Report to be submitted within 2 months of the end of the calendar year   | 1 January                              |
| 15-minute flow   | M3                                | Reports to be provided to the Environment Agency upon request<br><br>Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency | Upon request by the Environment Agency |
| UWWTR - ATU-BOD as O <sub>2</sub> , COD as O <sub>2</sub>  | M1 & M4                           | Monthly<br>Report to be submitted within 28 days   | 1st of month                           |
| Operator Self Monitoring - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C) | M4                                | Quarterly<br>Report to be submitted within 28 days   | 1st of month                           |
| Operator Self Monitoring summary report  | M4                                | Annually<br>Report to be submitted within 2 months of the end of the calendar year   | 1 January                              |
| UV disinfection measurements specified by condition 3.3.9  | M2 & UV1                          | Quarterly<br>Report to be submitted within 28 days   | 1 January, 1 April, 1 July, 1 October  |
| Disinfection efficacy<br>Parameter required by condition 3.3.1 and table S3.5  | M2, M4 & UV1                      | Quarterly<br>Report to be submitted within 28 days   | 1 January, 1 April, 1 July, 1 October  |

| <b>Table S4.1 Reporting of monitoring data</b> |                                   |  |  |
|--|-----------------------------------|--|--|
| <b>Parameter</b>                               | <b>Monitoring point reference</b> | <b>Reporting period</b>  | <b>Period begins</b>                   |
| UV disinfection performance reports            | M2, M4 & UV1                      | Reports to be provided to the Environment Agency upon request<br><br>Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency | Upon request by the Environment Agency |

| <b>Table S4.2 Reporting forms</b>   |   |
|---|---|
| <b>Parameter</b>  | <b>Reporting format</b>   |
| Dry Weather Flow (daily flows total)  | WISKI electronic format specified by the Environment Agency   |
| 15-minute flow  | WISKI electronic format specified by the Environment Agency   |
| UWWTR – ATU-BOD as O <sub>2</sub> , COD as O <sub>2</sub>   | Electronic format specified by the Environment Agency   |
| OSM - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C) | Quarterly - Electronic format specified by the Environment Agency   |
| Operator Self Monitoring summary report   | Annually - Summary report of compliance with the monitoring programme specified in Table S3.1 and schedule 3B in a format specified by the Environment Agency |
| UV disinfection measurements specified by condition 3.3.9   | Form as agreed in writing by the Environment Agency   |
| Disinfection efficacy   | Form as agreed in writing by the Environment Agency   |
| UV disinfection performance reports   | Form as agreed in writing by the Environment Agency   |

## 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                  |  |
| Name of operator               |  |
| Location of Facility           |  |
| Time and date of the detection |  |

|   |  |
|---|--|
| <b>(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</b> |  |
| <b>To be notified within 24 hours of detection unless otherwise agreed in writing by the Environment Agency</b>   |  |
| 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>(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)</b> |  |
| <b>The information specified below is to be notified to the Environment Agency as soon as reasonably practicable following detection.</b>   |  |
| Monitoring point reference/ source  |  |
| Self monitoring regime (where relevant)   | e.g. OSM/UWWTR                                   |
| Type of failure   | e.g. LUT failure/LUT exceedance/upper tier/other |
| 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 the Environment Agency**

|  |  |
|--|--|
| 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 |  |

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“abnormal operating conditions” include but are not limited to, the circumstances described in Regulation 40(1) of, or paragraph 6(5) of Schedule 21 to, the Environmental Permitting Regulations 2016 (illegal discharge to sewer), unusual weather, or during a defined period where the permit authorising the permitted activity has been varied for reasons such as capital works construction.

“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 O<sub>2</sub>” means the biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea).

“COD as O<sub>2</sub>” means the chemical oxygen demand (measured using the standard dichromate procedure).

“disinfection” means the use of a process designed specifically to reduce the number of viable, potentially infectious micro organisms in the effluent.

“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 2016 No.1154 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 the Environment Agency’s Monitoring Certification Scheme.

“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).

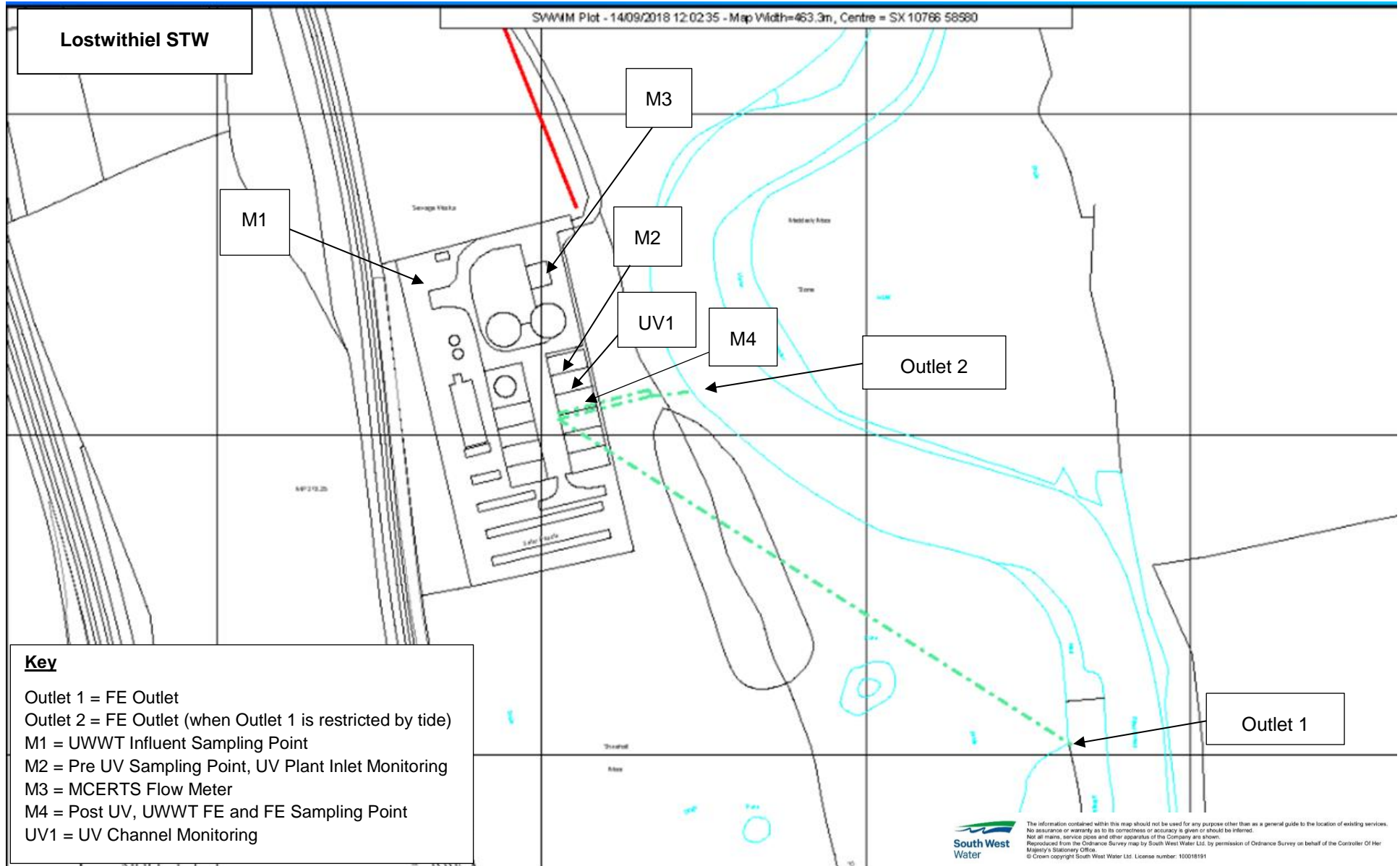
“unusual weather conditions” includes, but is not limited to:

- 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 (UWWTR)” 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



END OF PERMIT