



Notice: Grant of Permit

This permit has been granted by the Scottish Environment Protection Agency (SEPA) in exercise of its powers under Regulation 13 of the Pollution Prevention and Control (Scotland) Regulations 2012.

Permit number:	PPC/A/5005379
Operator:	Bioconstruct NewEnergy Ltd 1 Navigator Court Preston Farm Industrial Estate Stockton-On-Tees TS18 3TQ
Date of issue:	25 March 2024
Permitted activities:	The operation of an installation where the following activities are carried out: Recovery or a mix of recovery and disposal of non-hazardous waste at an installation with a capacity exceeding 100 tonnes per day by biological treatment where the only waste treatment is Anaerobic Digestion and any directly associated activities, as further detailed in this permit and described in Schedule 1 Section 5.4 Part A (b) (i)
Site location:	Bangley Quarry Biogas Bangley Quarry Haddington EH41 3SP
Conditions applicable to this permit:	The conditions contained in the schedules of this permit. Terms used in this permit are, unless otherwise specified, defined in the Interpretation of Terms schedule.

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INTERPRETATION OF TERMS

For the purposes of this Permit, and unless the context requires otherwise, the following definitions shall apply:

“Anaerobic Digestion” or “AD” has the same meaning as in the Waste Management Licensing (Scotland) Regulations 2011;

“the Application” means the application made by Bioconstruct NewEnergy Ltd for the Anaerobic Digestion Activity on 12 June 2023 and given the reference number PPC/A/5005379;

“Authorised Person” means a person who is authorised in writing under Section 108 of the Environment Act 1995 to carry out duties on behalf of SEPA;

“commissioning” means the commencement in operation of the Permitted Installation or part thereof, for the first-time following construction, or after any significant modification or change. It includes: the planning and management of the commissioning or the Permitted Installation or part thereof; functional testing of equipment; introducing process materials to the plant; resolution of technical and procedural problems; confirmation that all aspects of the plant operate as designed or planned; and confirmation the plant operates within the conditions of the Permit.

“emission” has the same meaning as in the Regulations;

“Engine” means a gas engine, diesel engine or dual fuel engine;

“Gas engine” means an internal combustion engine which operates according to the Otto cycle and uses spark ignition to burn fuel.

“incident” means any of the following situations:

- Where an accident occurs which has caused or may have the potential to cause pollution;
- Where any malfunction, breakdown or failure of plant or techniques is detected which has caused or may have the potential to cause pollution;
- A breach of any condition of this Permit;
- Where any substance, vibration, heat or noise specified in any Condition of this Permit is detected in an emission from a source not authorised by a Condition of this Permit and in a quantity which may cause pollution;
- Where an emission of any pollutant not authorised to be released under any Condition of this Permit is detected;
- Where an emission of any substance, vibration, heat or noise is detected that has exceeded, or is likely to exceed, or has caused, or is likely to cause to be exceeded any limit on emissions specified in a Condition of this Permit.

“Location Plan” means the plan attached at Schedule 1;

“medium combustion plant” means A combustion plant with a rated thermal input equal to or greater than 1 megawatt but less than 20 megawatts;

“non-hazardous waste” means waste which is not hazardous waste;

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operating hours” means the time, expressed in hours, during which a medium combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods;

“operation” has the same meaning as in The Pollution Prevention and Control (Scotland) Regulations 2012, A Practical Guide (Part A Activities), Issue 2;

“the Permitted Activities” are defined in Schedule 1 of this Permit;

“the Permitted Installation” is defined in Schedule 1 of this Permit and includes references to parts of the Permitted Installation;

“pollutant” and “pollution” have the same meaning as in the Regulations;

“Quality Index value” has the same meaning as defined and calculated in the relevant CHPQA guidance method as published at www.chpqa.com;

“rated thermal input” means the rate at which fuel can be burned at the maximum continuous rating of the appliance multiplied by the net calorific value of the fuel and expressed as megawatts thermal;

“the Regulations” means The Pollution Prevention and Control (Scotland) Regulations 2012;

“Ringelmann Shade 1” has the same meaning as in British standard BS 2742:1969;

“waste” has the same meaning as in the Regulations;

“Sealed drainage system” has the same meaning as in paragraph 45(7) of Schedule 1 of the Waste Management Licensing (Scotland) Regulations 2011;

“SEPA” means the Scottish Environment Protection Agency;

“SEPA’s Odour Guidance 2010” means that guidance published by SEPA, or any revision of that Guidance as subsequently published, on SEPA’s website at www.sepa.org.uk;

SEPA’s Thermal treatment of waste guidelines 2014” means those guidelines published by SEPA, or any revision of those guidelines as subsequently published, on SEPA’s website at www.sepa.org.uk;

“the Site Boundary” is defined in Schedule 1 of this Permit;

“Site Plan” means the plan attached at Schedule 1;

“start-up and shut-down” as defined in the Commission Implementing Decision (2012/249/EU), OJ L 334, 17.12.2000, p.17;

“waste” has the same meaning as in the Regulations;

“water environment” has the same meaning as in the Water Environment and Water Services (Scotland) Act 2003 that is all surface water, groundwater and wetlands; and “surface water”, “groundwater” and “wetlands” shall have the same meanings as in the Act.

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Any reference to a numbered Condition, group of Conditions, Schedule, Table, Appendix, Figure or Paragraph is a reference to the condition, group of conditions, schedule, table, appendix, figure or paragraph bearing that number in this licence;

Except where specified otherwise in this Permit:

- “day” means any period of 24 consecutive hours,
- “week” means any period of 7 consecutive days,
- “month” means a calendar month,
- “quarter” means a calendar quarter,
- “year” means any period of 12 consecutive months,

and any derived words (e.g. “monthly”, “quarterly”) shall be interpreted accordingly;

Except where specified otherwise in this Permit, any reference to an enactment or statutory instrument includes a reference to it as amended (whether before or after the date of this Permit) and to any other enactment, which may, after the date of this Permit, directly or indirectly replace it, with or without amendment.

1 THE PERMITTED INSTALLATION

1.1 Description of Permitted Installation

1.1.1 The permitted installation to which this Permit applies (“the Permitted Installation”) is:

1.1.1.1 The stationary technical unit specified in paragraph 1.1.4 (the Stationary Technical Unit), where the activities specified in paragraph 1.1.3 are carried out (“the Activities”), together with the directly associated activities specified in paragraph 1.1.5 (“the Directly Associated Activities”).

1.1.1.2 The site of the Permitted Installation is delineated in red on the Site Plan (“the Site Boundary”).

1.1.2 The general location of the Permitted Installation is as shown on the Location Plan.

1.1.3 The Activities carried out at the Stationary Technical Unit are:

1.1.3.1 The recovery or a mix of recovery and disposal of non -hazardous waste at an installation with a capacity exceeding 100 tonnes per day by biological treatment, where the only waste treatment activity is anaerobic digestion as described in Schedule 1, Section 5.4, Part A (b) (i) of the Regulations.

1.1.4 The Stationary Technical Unit comprises the following units:

1.1.4.1 Two liquid waste reception tanks comprising:

- a) A 302 m³ Concrete pre-storage tank;
- b) A 100 m³ Glass Reinforced Plastic (GRP) tank.

1.1.4.2 An odour-controlled Waste Reception Building designed for negative pressure operation fitted with fast roller doors; and containing the following:

- a) An 836 m³ Clamp for the storage of non-waste energy crops;
- b) A 568 m³ Clamp for the Storage of Animal Manure and ABP;
- c) Two 120 m³ Feed Hoppers and mixing units.

1.1.4.3 Facilities for the storage of contaminated or unsuitable waste.

1.1.4.4 An Exeon Cold Ox odour control unit comprising:

- a) Ultraviolet treatment system with automatic bulb flushing system drainage pipes and frost prevention and including extraction system pipes and ductwork;
- b) an activated carbon filtration system fitted with dual carbon beds and including extraction system pipes and ductwork;



- c) An Ammonia scrubber for the pre-treatment of emissions from Nitrogenous rich wastes;
- d) a single 14m high stack and associated fans capable of providing and maintaining an efflux velocity of 11m/s.

1.1.4.5 The anaerobic digestion plant comprising:

- a) Three 6.434 m³ continuously stirred tank reactor (CSTR) digesters which can be operated in Thermophilic or Mesophilic mode and designed to collect biogas within the headspace;
- b) The heaters, pressure relief valves and electronic monitoring systems fitted to each of the digesters;
- c) Three 30m³ pasteurisation tanks;
- d) Börger RC150 separation unit.

1.1.4.6 An airtight 10.053 m³ concrete liquid digestate storage tank with a capacity to store biogas in the headspace fitted with Pressure relief valve and an electronic monitoring system.

1.1.4.7 The burning of biomethane and or Natural Gas in a Combined Heat and Power Plant with a rated thermal input of less than 1 megawatt comprising:

- a) An Avus 1000plus EG CHP Unit with electrical power 999 kW el. using biogas as fuel served by a dedicated 10m stack;
- b) A backup VITOPLEX 200 Type SX2A Boiler 1100 using biogas as fuel served by a dedicated 10m stack.

1.1.4.8 A Uniflare UF10-1750 enclosed flame gas flare, associated control louvres fitted with Ultra-Violet (UV) sensor(s) and thermocouple, designed to accept the maximum gas flow rate produced in the AD plant.

1.1.4.9 An ammonia scrubber for the removal of Nitrogenous compounds in the biogas prior upgrading in the Pentair gas treatment system.

1.1.4.10 A Pentair biogas treatment plant comprising:

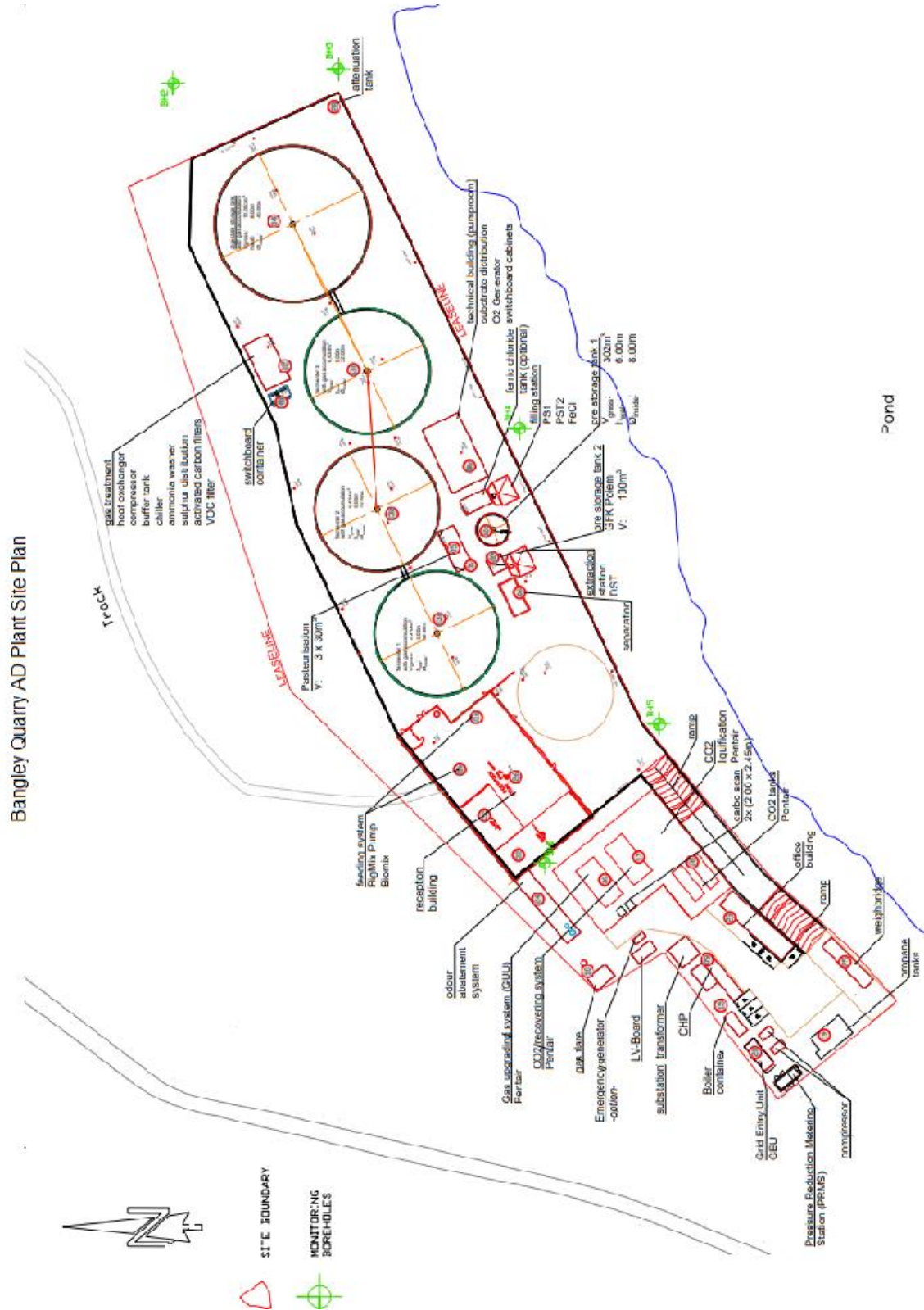
- a) A gas cooling and compression system;
- b) Initial desulphurisation using oxygen injection;
- c) Desulphurisation using one or more activated carbon desulphurising filters in series;
- d) An ammonia removal scrubber system including sulphuric acid dosing station;
- e) A VOC removal system comprising activated carbon filters specifically designed and treated to remove VOCs;



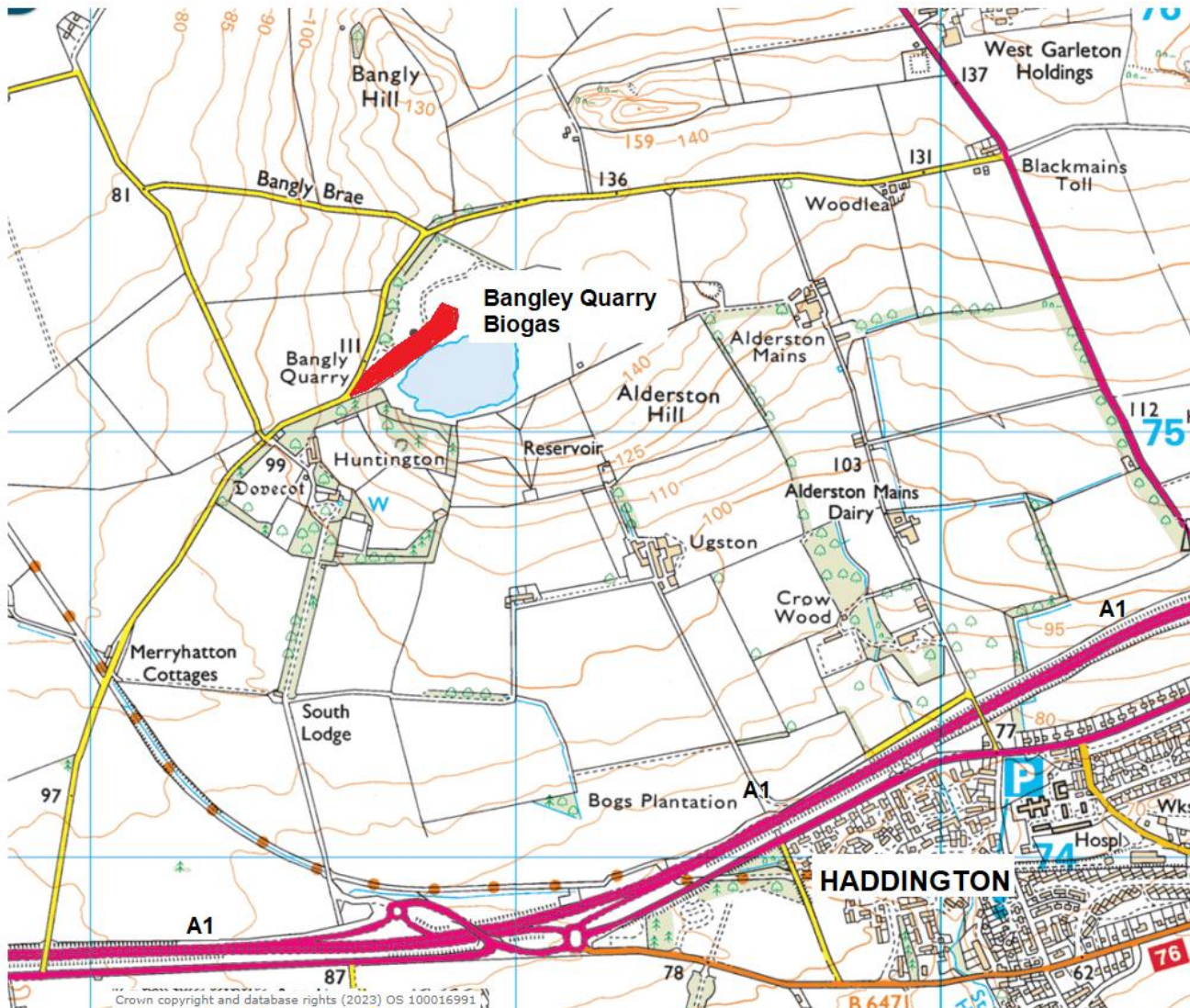
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- f) A purpose-built Membrane technology system with the ability for CO₂ capture recovery and liquefaction;
 - g) Biomethane Monitoring and gas grid injection station.
- 1.1.4.11 Site utilities and services not described elsewhere in this Schedule including computerised control and monitoring systems and compressed air systems.
- 1.1.5 The following Directly Associated Activities are carried out on the Site:
- 1.1.5.1 Servicing and maintenance of the Gas engine;
 - 1.1.5.2 Stack testing and monitoring;
 - 1.1.5.3 Servicing and maintenance of the boiler;
 - 1.1.5.4 Maintenance and calibration of the weighbridge or other weight measuring system;
 - 1.1.5.5 Delivery, storage and handling of non-waste raw and auxiliary materials and chemicals.
 - 1.1.5.6 On site sampling and testing of the following:
 - a) Raw waste streams;
 - b) Product to PAS110 Standard;
 - c) Bund water before discharge;
 - d) Routine air emissions and building checks streams;
 - e) Soil and Ground water monitoring.
 - 1.1.5.7 Maintenance of boreholes.
 - 1.1.5.8 Sampling and testing of air and off specification digestate.
 - 1.1.5.9 Monitoring of air emissions.
 - 1.1.5.10 Storage, handling, and dispatch of waste.
- 1.1.6 The welfare facilities are not part of the Permitted Installation.
- 1.1.7 For the purposes of this Permit, the Activities and Directly Associated Activities shall be known together as “the Permitted Activities”.

1.2 Site Plan



1.3 Location Plan



2 GENERAL CONDITIONS

2.1 Administration

- 2.1.1 The Operator must ensure that the operation of the Permitted Installation is in accordance with and to the extent permitted by this Permit.
- 2.1.2 The Operator shall have an appropriate person (and deputy) as the primary point of contact with SEPA and shall notify SEPA in writing of the name of the appointed person (and deputy) within 4 weeks of the date of this Permit.
- 2.1.3 In the event of a different person being appointed to act as primary point of contact (or deputy) the Operator shall notify SEPA in writing of the name of the appointed person or deputy without delay.
- 2.1.4 The Permitted Installation shall be managed and operated, by using sufficient competent persons and sufficient resources, in accordance with a written management system that:
- a) ensures that the installation is operated in compliance with this Permit;
 - b) identifies and minimises risks of pollution;
 - c) ensures that all appropriate preventative measures are taken against pollution;
 - d) and ensures that no pollution is caused.
- 2.1.5 The written management system required by Condition 2.1.4 shall be implemented within 6 months from the date this Permit is granted and shall be reviewed at least once every 4 years.
- 2.1.6 All reviews required by Condition 2.1.5 shall be recorded and the results of any review incorporated in the written management systems and implemented within a period of 3 months from the end of the review.
- 2.1.7 A copy of this Permit shall be kept at the Permitted Installation and shall be made readily accessible for examination by all staff.
- 2.1.8 Any systems or procedures used by the Operator to demonstrate compliance with a Condition of this Permit shall be recorded.

2.2 Records

- 2.2.1 All records made in compliance with this Permit shall be kept in a systematic manner.
- 2.2.2 Unless otherwise specified in a Condition of this Permit, every record made in compliance with a Condition of this Permit shall be preserved for not less than 5 years from the date of its being made. Every such record shall be kept at the Permitted Installation for not less than one year from the date of its being made and thereafter preserved at a location,

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previously notified to SEPA in writing, if that location is not the Permitted Installation.

- 2.2.3 All records shall be legible, and any amendment made to any record made in compliance with a Condition of this Permit shall be made in such a way as to leave the original entry clear and legible. The reason for each amendment shall be explained in the record.
- 2.2.4 Regardless of Condition 2.2.2, all Operators' records relevant to the operation and maintenance of the Permitted Installation shall be kept at the Permitted Installation for not less than one year from the end of the period to which they apply.

2.3 Reporting

- 2.3.1 Where any condition of this Permit requires information to be reported, a report shall be forwarded to SEPA by the date(s) or within the period or at the frequency specified in Table 2.1, and, where appropriate, the first report shall be due on the date specified in that Table. All such reports shall include the Permit number, Permit Condition number and the name of the Operator.
- 2.3.2 Unless submission in electronic format has been agreed in writing with SEPA, the reports referred to in Condition 2.3.1 shall be forwarded to SEPA in duplicate to the address specified by SEPA. Where electronic reporting has been agreed submission should be to the email address specified by SEPA.
- 2.3.3 Where the Permitted Installation has not operated for the duration of any relevant reporting period specified in Table 2.1, the Operator shall provide written notification to SEPA. This shall confirm that no relevant reports have been made in terms of Condition 2.3.1, because the Permitted Installation has not operated during the period. Such notifications shall be submitted within one month of the end of the reporting period concerned.

2.4 Waste Data Reporting

- 2.4.1 The Operator shall compile the data required to complete the "Licensed/Permitted Site Returns Form" located on SEPA's website at www.sepa.org.uk.
- 2.4.2 A copy of the completed form shall be returned to SEPA within 28 days of the last day of March, June, September and December each year.

2.5 Incidents

- 2.5.1 In the event of an incident all necessary measures shall immediately be taken:
- a) to prevent, or where that is not practicable to reduce, emissions from the permitted installation;
 - b) to limit the environmental consequences because of that incident;
and



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c) to prevent further possible incidents.

- 2.5.2 Regardless of the requirements of condition 2.5.1, in the event of a breach of any condition of this permit the operator shall immediately take the measures necessary to ensure that compliance is restored in the shortest possible time.
- 2.5.3 Regardless of the requirements of Condition 2.5.1 and 2.5.2 where a breach of any condition of this Permit poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator shall immediately suspend operation of the Permitted Installation or relevant part thereof until such time as it can be operated in compliance with this Permit.
- 2.5.4 In the event of an incident, the Operator shall notify SEPA by telephone without delay to 0800 80 70 60. This notification shall include as far as practicable the information specified in Condition 2.5.5.
- 2.5.5 The Operator shall confirm any incident to SEPA in writing by the next working day after identification of the incident. This confirmation shall include: the time and duration of the incident, the receiving environmental medium or media where there has been any emission because of the incident, an initial estimate of the quantity and composition of any emission, the measures taken to prevent or minimise any emission or further emission and a preliminary assessment of the cause of the incident.
- 2.5.6 Any incident notified to SEPA shall be investigated by the Operator, and a report of the investigation sent to SEPA. The report shall detail, as a minimum, the circumstances of the incident, an assessment of any harm to the environment and the steps taken by the Operator to bring the incident to an end. The report shall also set out proposals for remediation, where necessary, and for preventing a repetition of the incident.
- 2.5.7 Before operating the process, the Operator shall prepare, implement and maintain an "Incident Prevention and Mitigation Plan". The plan shall include a detailed description of the contingency arrangements and actions that would be invoked in the event of any maintenance breakdown or failure of the Odour Control System described in 1.1.4.4 either because of a deterioration in the performance of the anaerobic treatment plant, or the need to perform an inspection of, or a repair to, any part of the Odour Control System. A copy of the Plan shall be reported to SEPA.
- 2.5.8 At least every 5 years, the Operator shall review the Incident Prevention and Mitigation Plan required under Condition 2.5.7. Each review of the Incident Prevention and Mitigation Plan shall be recorded and where the Operator makes any revisions to the plan, the revisions shall be recorded.

2.6 Resource Utilisation

- 2.6.1 At least every 4 years, the Operator shall carry out a systematic assessment of the raw material, energy and fuel consumption, emissions and waste production associated with the Permitted Activities. The purpose of the assessment shall be to identify methods of reducing raw



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material, energy and fuel consumption, emissions and waste production. Each assessment shall be recorded. A summary of any energy use or waste minimisation projects identified because of assessment and the estimated costs and payback period relating to each project shall be reported to SEPA.

- 2.6.2 For the purposes of Condition 2.6.1, “raw materials” shall mean the materials listed in Table 2.2.
- 2.6.3 The assessment required by condition 2.6.1 shall be recorded using the SEPA “systematic assessment of resource use and efficiency template” (IED-T-04), or an equivalent format as agreed by SEPA, and reported to SEPA as specified in Table 2.2.

2.7 Waste Arisings Management

- 2.7.1 At least every 5 years, the Operator shall carry out a systematic assessment and review of the management of all wastes generated by the Permitted Activities. The purpose of the assessment shall be to identify methods of avoiding or reducing the impact on the environment of the disposal of waste. Each assessment shall be recorded and reported to SEPA.
- 2.7.2 The Operator shall maintain a record of the location, estimated quantities, and types of all wastes generated by the Permitted Activities and stored within the Permitted Installation. The record shall be updated quarterly.
- 2.7.3 Regardless of the requirements of Condition 2.7.2, the operator shall carry out a systematic assessment and review of any wastes generated by the anaerobic digestion activity described in Paragraph 1.1.4.5 of this Permit no later than 1 year after the first introduction of waste into the activity and this shall be reported to SEPA.
- 2.7.4 No later than 1 year after the date of the permit the operator shall produce and maintain an inventory of waste gas streams being emitted from the Permitted Installation
- 2.7.5 The inventory of waste gas streams required by condition 2.7.4 shall include information about the characteristics of the waste gas streams, such as:
- a) average values and variability of flow and temperature;
 - b) average concentration and load values of relevant substances and their variability (e.g. organic compounds, POPs such as PCBs);
 - c) flammability, lower and higher explosive limits, reactivity;
 - d) presence of other substances that may affect the waste gas treatment system or plant safety (e.g. oxygen, nitrogen, water vapour, dust).

2.8 Sampling and Monitoring Facilities

- 2.8.1 Sampling, measurement and monitoring facilities at the Permitted Installation shall conform to the requirements of the relevant test methods specified in any Condition of the Permit or as otherwise agreed in writing by SEPA.
- 2.8.2 Unrestricted access to all sampling points required by any Condition of this Permit shall be provided.

2.9 Commissioning

- 2.9.1 Until Conditions 2.9.2 to 2.9.3.3 inclusive have been complied with the Operator shall not carry out any new activities, or substantially changed activities, except as part of the commissioning activities notified to SEPA in compliance with Conditions 2.9.3 (“the Commissioning Activities”).
- 2.9.2 During the Commissioning Activities, the design features necessary to ensure compliance with any condition of this permit shall be tested and demonstrated to be effective. This shall include testing of the buildings doors and negative pressure systems, pressure relief valves, control systems and alarms, odour control system described in 1.1.4.4 for the airflow, operation of the carbon filter, efflux velocity of the stack and leak testing of bunds sumps and drainage system
- 2.9.3 At least 14 days, or such period as otherwise agreed in writing with SEPA before carrying out any Commissioning Activities the Operator shall notify SEPA in writing of details of the Commissioning Activities to be carried out, including:
- 2.9.3.1 An assessment of any environmental impact which commissioning activities may have;
- 2.9.3.2 The proposed dates on which the work will be started and completed; and
- 2.9.3.3 The criteria for determining when the Commissioning Activities have ceased.
- 2.9.4 When carrying out the Commissioning Activities the Operator shall carry out tests to demonstrate that the Permitted Installation can be operated to comply with any condition of this Permit.
- 2.9.5 Should any test required by Condition 2.9.2 indicate that the conditions of this Permit have not or cannot be complied with the Operator shall cease carrying on that part of the Commissioning Activities until remedial actions to ensure compliance with the conditions of this Permit have been implemented. This shall be treated as an incident as per conditions 2.5.1, 2.5.2, 2.5.3, 2.5.4 and 2.5.5.
- 2.9.6 For the avoidance of doubt where the circumstances set out in Condition 2.9.5 have occurred, the Operator shall carry out further tests in compliance with Condition 2.9.4.



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2.9.7 Within one month of ceasing the Commissioning Activities the Operator shall prepare and submit to SEPA a written report including the following:

2.9.7.1 Details of tests carried out under Condition 2.9.2;

2.9.7.2 Details of and explanations for any faults in the plant, equipment or operating procedures identified during tests that resulted or may have resulted in the breach of any Condition of this Permit;

2.9.7.3 Details of any remedial action taken or to be taken to overcome any of the faults;

2.9.7.4 Where remedial action is to be taken the date by when each action will be taken, justification of this date, and why the Operator believes Commissioning Activities have ceased, despite remedial action still being required; and

2.9.7.5 Details of deviations from the original operating methodology of the Permitted Activity and justification for such deviations.

2.10 Weighbridge

2.10.1 A weighbridge shall be provided at the permitted installation.

Table 2.1 – Reporting and Notification Requirements

Summary of Information to be Reported or Notified	Condition	Date/Within period/ Frequency to be Reported	Date First Report Due
Primary point of contact with SEPA	2.1.2 & 2.1.3	without delay following any new appointment	Within 4 weeks of the date of this Permit
Where the Permitted Installation has not operated for the duration of a reporting period	2.3.3	As required	Within 1 month of the end of the reporting period concerned
Waste Data Returns	2.4.1	Within 28 days of the last days of: March, June, September and December each year	As applicable after the date permit is issued
Incident investigation notification	2.5.4 & 2.5.5	Without delay by telephone. Next working day written confirmation	Not applicable
Incident investigation report	2.5.6	within 14 days of the date of the Incident unless otherwise agreed in writing with SEPA	Not applicable
Incident Prevention and Mitigation Plan	2.5.7	One off report	Before the first introduction of waste into the anaerobic digestion activity

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Summary of Information to be Reported or Notified	Condition	Date/Within period/ Frequency to be Reported	Date First Report Due
Summary of Resource Utilisation assessment	2.6.1	At least every 4 years	01 January 2028
Waste arisings systematic assessment and review	2.7.3	One off report	12 months after the first introduction of waste into the anaerobic digestion activity
Commissioning notification	2.9.3	One off report	At least 14 days before carrying out activities as agreed with SEPA
Commissioning report	2.9.7	One off report	Within 1 month of completion of commissioning activities
Start-up Plan	3.1.1	One off report	1 month before the first introduction of waste into the anaerobic digestion activity
Decommissioning Plan	3.2.1	One off report	Within 6 months from the date of the permit
Decommissioning notification	3.2.2	At least 1 month before the proposed date of cessation	Not applicable
Relevant Hazardous Substances in Groundwater and Soil report	3.8.8	At least every 5 years for Groundwater and every 10 years for Soil	Within 5 years of the date of the permit for Groundwater and Within 10 years of the date of the permit for Soil
Relevant Hazardous Substances in Groundwater and soil monitoring plan	3.8.10	3 Months before any Groundwater or Soil monitoring being undertaken	Within 4 years and 9 months of the date of the permit for Groundwater And Within 9 years and 9 months of the date of the permit for Soil
Periodic Monitoring (Air)	3.10.5	Annually	31 January 2025
Mass Emissions to Air	3.10.6	Annually	31 January 2025
Odour Management Plan	3.11.5	One off report	1 month before the



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Summary of Information to be Reported or Notified	Condition	Date/Within period/ Frequency to be Reported	Date First Report Due
			first introduction of waste into the anaerobic digestion activity
Change to Odour Management Plan	3.11.8	As required	At least 14 days before the change being made
Notification of Odour Complaint	3.11.10	As required	Not applicable
Breakdown or maintenance of the odour control system	3.11.16	Without delay by telephone. Next working day written confirmation	Not applicable
Procedure for the removal of sludge/solids from the bottom of the digester tanks	3.11.17	One off report	1 month before the first introduction of waste into the anaerobic digestion activity
Noise and Vibration Report	3.13.1	One off report	1 month before the first introduction of waste into the anaerobic digestion activity
Rejected Loads	4.4.1	Details of refusal to be passed to SEPA forthwith	Not applicable
AD Plant Operating Procedure	5.1.10	One off report	1 month before the first introduction of waste into the anaerobic digestion activity
Heat and Power Plan	6.7.1	Annually	31 January 2025


Table 2.2 – Review and Assessment Requirements

Summary of Information to be Reviewed or Assessed	Condition	Date/Within period/ Frequency to be Reviewed or Assessed	Date First Review or Assessment Due
Written Management System	2.1.5	At least every 4 years	6 months of date of Permit
Incident Prevention and Mitigation Plan	2.5.8	At least every 5 years	01 January 2029
Resource Utilisation	2.6.1	At least every 4 years	01 January 2028
Waste arisings systematic assessment and review	2.7.1	At least every 5 years	01 January 2029
Start Up Plan	3.1.2	At least every 4 years	01 January 2028
Decommissioning Plan	3.2.4	At least every 4 years	01 January 2028
Review of maintenance of Environmentally Critical Items	3.3.5	Annually	31 January 2025
Systematic assessment of all measures to prevent emissions to soil and groundwater. To include the condition of drains, subsurface pipework, sumps and storage vessels	3.8.5	At least every 4 years	01 January 2028
Systematic assessment of internal floors external yard surfaces roadways and bunds	3.8.6	At least once per year	By 31 December 2024
Relevant Hazardous Substances in Groundwater and Soil report	3.8.8 & 3.8.9	At least every 5 years for Groundwater and	01 January 2029
		At least every 10 years for Soil	01 January 2034
Methodology for monitoring groundwater	3.8.12	At least every 5 years	3 months in advance of carrying out the monitoring
Systematic assessment and review of Odour Emissions	3.11.6	Annually	31 January 2025
Systematic assessment and review of Noise and Vibration	3.13.2	At least every 2 years	31 January 2026

3 CONDITIONS APPLYING TO THE PERMITTED INSTALLATION AS A WHOLE

3.1 Start Up

3.1.1 Before operating the process, the Operator shall implement and maintain the “the Start Up Plan” setting out the necessary steps to be taken by the Operator before start-up of operations of the Permitted Installation to ensure that all appropriate preventative measures are taken against pollution and that no significant pollution is caused. A copy of the Start-up plan shall be submitted to SEPA

3.1.2 At least every 4 years, the Operator shall review the Start Up Plan required under condition 3.1.1. Each review of the Start Up Plan shall be recorded and where the Operator makes any revisions to the plan, revisions shall be recorded.

3.2 De-commissioning

3.2.1 By within 6 months from the date of the permit the operator shall prepare and maintain a plan (“the de-commissioning plan”) for the decommissioning of the permitted installation. The de-commissioning plan shall set out the steps to be taken by the operator after final cessation of the permitted activities. A copy of the de-commissioning plan shall be submitted to SEPA.

3.2.2 The Operator shall notify SEPA in writing of its intention to cease the Permitted Activities, or any part thereof, for any period exceeding 12 months, no later than one month before the proposed date of cessation.

3.2.3 The Operator shall implement the de-commissioning plan on final cessation of the Permitted Activities or any part thereof.

3.2.4 The Operator shall review, record and, where necessary, update and report the de-commissioning plan as follows:

3.2.4.1 at least every 4 years; and

3.2.4.2 where the Operator plans to make a substantial change in the extent or nature of the Permitted Installation.

3.3 Environmentally Critical Items

3.3.1 Before operating the process, the Operator shall identify and designate as environmentally critical any item or process, plant or instrumentation that it relies on for the prevention or limitation of pollution from the Permitted Installation (an “Environmentally Critical item”).

3.3.2 Regardless of condition 3.3.1, the Operator shall designate as an Environmentally Critical Item each of those items specified in Table 3.1.

3.3.3 The Operator shall maintain a register of Environmentally Critical Items at the Permitted Installation designated in accordance with conditions 3.3.1



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and 3.3.2. The register shall contain the following records in respect of each Environmentally Critical Item:

- 3.3.3.1 a description of the Environmentally Critical Item and its mode of operation;
- 3.3.3.2 the performance standards expected of the Environmentally Critical Item;
- 3.3.3.3 the acceptable range, with justification, for each direct and indirect operating parameter that might materially affect the achievement of the performance standard referred to;
- 3.3.3.4 details of all monitoring necessary to assess compliance with the performance standard, and operating parameters, referred to, including details regarding the handling and storage of such data;
- 3.3.3.5 a description of the actions that should be taken in the events of any performance standard or acceptable operating parameter not being met, or the Environmentally Critical Item not being operational, monitoring failing or malfunctioning and if this is dependent upon any factor (such as the nature of the Permitted Activities undertaken);
- 3.3.3.6 a description of all maintenance and/or calibration work that is necessary to secure the performance standard referred to; and
- 3.3.3.7 a description of critical spare parts that will be held at the Permitted Installation for the Environmentally Critical Item, the minimum required stock level for each such spare part and the current stock level for each spare part.
- 3.3.4 The Operator shall record the following in respect of each Environmentally Critical Item:
 - 3.3.4.1 compliance assessment referred to in condition 3.3.3.4;
 - 3.3.4.2 the time and date of each occasion on which the performance standard and/or acceptable operating parameter was not met, and the actions taken in response;
 - 3.3.4.3 for each record made as a requirement of condition 3.3.3.4 the reason why the performance standards and/or an acceptable operating parameter were not met;
 - 3.3.4.4 all maintenance and /or calibration work carried out on the Environmentally Critical Item; and
 - 3.3.4.5 each occasion on which the stock level for any critical spare part drops below the specified level.
- 3.3.5 The Operator shall undertake and record an annual review of the maintenance records to identify equipment that has failed frequently and/or common failure modes. After the review an improvement programme shall be developed, recorded, and implemented to minimise recurrences of the identified failures and failure modes.

Table 3.1 – Environmentally Critical Items

ITEM
All odour abatement equipment and associated systems
All environmentally critical mixers associated with the AD process
All environmentally critical ductwork for the transfer of odorous air
All fans associated with the odour abatement system.
All pressure relief valves and their mechanisms
All environmentally critical internal and external vehicle and personnel doors
All environmentally critical monitoring devices, including probes, sensors, etc. and associated recording systems.
The biogas retaining membrane and retaining membrane of the digestate final storage tank
The Combustion Plant
The boiler
The flare
All bunds

3.4 Infrastructure

- 3.4.1 All buildings, tanks, and pipework, forming part of the Permitted Installation shall be constructed and maintained to prevent the uncontrolled emission of odour to air.
- 3.4.2 All roads and surfaces shall be constructed and maintained in a condition such that their use is not compromised by debris, ruts, potholes, or ponded surface water.
- 3.4.3 The site shall be maintained in a secure condition to prevent unauthorised access.
- 3.4.4 A site notice board of durable material and finish shall be displayed at the site entrance. The noticeboard shall contain the under noted information, which information shall be legible from outwith the site boundary:
- a) permitted installation name, address and permit number
 - b) permit Holder's name
 - c) site opening times
 - d) emergency contact telephone number for the permit Holder
 - e) telephone number of the SEPA area office and the SEPA emergency telephone number
- 3.4.5 Legible signs of a durable material and finish shall be prominently displayed throughout the site to ensure that users of the installation are aware of:
- a) traffic routing, access and speed restrictions



- b) the location of the various facilities
- c) Loading or unloading instructions

3.5 Storage of Liquids

- 3.5.1 All containers used to store any liquids shall be located in a bund. The minimum capacity of any bund shall be either 110% of the capacity of the largest container, or 25% of the total capacity of all the containers within the bund, which-ever is the greater. In the event of any containers being connected to one another, they shall be treated as one container.
- 3.5.2 The bunded area(s) and containers shall conform to the following standards:
- a) the walls and base of the bund shall be impermeable
 - b) the base shall drain to a sump
 - c) when not in use all taps, valves, pipes and every part of each container shall be located within the area served by the bund
 - d) vent pipes shall be directed downwards into the bund
 - e) no part of the bund shall be within 10 metres of a watercourse
 - f) all containers with a design capacity above 1250 litres shall be fitted with a device for continuously monitoring the level of the contents
- 3.5.3 The accumulation of rainwater, spillages or leaks shall be managed to ensure that at least 95% of the capacity of the bund is free of liquid.

3.6 Impermeable Pavement and Drainage

- 3.6.1 All working surfaces shall be impermeable to water and laid to direct surface run-off to a purpose designed drainage system.
- 3.6.2 Site drainage shall be provided and maintained to ensure that:
- a) rainfall run-off from surrounding areas does not drain into the waste;
 - b) contaminated surface water run-off does not enter watercourses;
and
 - c) the site does not become subject to ponding or waterlogging.

3.7 Leakages/Spills

- 3.7.1 Any spillages of waste, sludge, slurries, digestate, fuel or other liquids shall be cleaned up forthwith. A supply of a suitable absorbent material shall be kept on site to deal with any such spillages.



3.8 Protection of Soil and Groundwater

- 3.8.1 Unless specified elsewhere in this permit there shall be no emission of any pollutants to groundwater or soil from the permitted Installation.
- 3.8.2 The operator shall maintain a record of any incident that has, or might have, impacted on the condition of any soil or groundwater under the permitted installation, either because of that incident or because of an accumulation of incidents, together with a record of any further investigation or remediation work carried out.
- 3.8.3 Regardless of the requirements of Condition 2.2.2, the record required by condition 3.8.2 shall be preserved until this permit is surrendered.
- 3.8.4 The operator shall maintain plan(s) that identify the configuration and specification of all drains and subsurface pipe-work and the position and purpose of all sub-surface sumps and storage vessels that are used or have been used within the permitted installation from the date of this permit until the permit is surrendered.
- 3.8.5 At least every 4 years, the operator shall carry out a systematic assessment of all measures used to prevent emissions from the permitted installation to soil and groundwater. A written report of each assessment shall be recorded and reported to SEPA. The report shall include details of and timescales for any additional measures that are required to prevent emissions to soil and groundwater.
- 3.8.6 The Operator shall at least once per year carry out a systematic assessment and inspection of internal floors, external yard surfaces and bunding to ensure compliance with Condition 3.8.1.
- 3.8.7 Any remedial action or upgrade identified by the systematic assessment and inspection required by Conditions 3.8.5 and 3.8.6 shall be completed within 3 months of completion of the survey or within such a timescale as is agreed in writing with SEPA.
- 3.8.8 The operator shall monitor the groundwater and soil at the site for the relevant hazardous substances specified in table 3.2 at the frequency specified in table 3.2, the purpose of which shall be to identify groundwater and soil contamination associated with the activities specified in Table 3.2 by those relevant hazardous substances. Each assessment shall be recorded and reported to SEPA.
- 3.8.9 The assessment required by condition 3.8.8 shall include interpretation of the results with reference to previous monitoring undertaken (including the site and where applicable baseline reports) and operations at the permitted installation and details of corrective actions that are required to protect groundwater and soil and remedy any contamination that has occurred as a result of permitted activities.
- 3.8.10 The operator shall submit a detailed groundwater and soil monitoring plan, for the monitoring required by conditions 3.8.8 to SEPA at least 3 months in advance of carrying out the monitoring, which shall include the locations



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at which monitoring shall be carried out and the methodology which shall be used.

- 3.8.11 The operator shall carry out the monitoring required by condition 3.8.8 in accordance with the groundwater and soil monitoring plan required by condition 3.8.10.
- 3.8.12 The operator shall review the plan required by Condition 3.8.10 no later than 6 months after each monitoring event. The purpose of the review shall be to determine whether any changes to monitoring locations, frequency or parameters are required and where changes are proposed, submit a revised plan to SEPA.
- 3.8.13 Regardless of the requirements of Condition 2.2 all plans, monitoring and assessments reports undertaken in accordance with Conditions 3.8.5, 3.8.8, and 3.8.10 shall be preserved until the permit is surrendered.
- 3.8.14 The operator shall maintain the groundwater monitoring wells detailed in the plan required in Condition 3.8.10 in a condition fit for purpose, unless otherwise agreed in writing with SEPA. Where a well's function is compromised it shall be repaired or replaced to allow sample collection in accordance with Conditions 3.8.8.

Table 3.2 – Groundwater and Soil Monitoring Requirements

Relevant hazardous substance*	Location		Frequency	
	Borehole	Location	Groundwater	Soil
COD	BH1	Located within the former aggregate processing area	Once every 5 years	Once every 10 years
Total Organic Carbon				
pH	BH2	Northeast and down hydraulic gradient from storage tanks & gas treatment area		
Chloride				
Total Nitrogen				
Ammoniacal Nitrogen	BH3	Southeast of storage tanks, adjacent to attenuation tanks & between installation and quarry lagoon		
Total Phosphorous				
Total Iron				
PFOA				



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PFOS phenol index Total Petroleum Hydrocarbons - CWG with aliphatic and aromatic banding PAH USEPA 16 Speciated	BH4	Between the installation and quarry lagoon and is down hydraulic gradient of storage tanks, Separation /extraction station, filling station, and pumproom.		
	BH5	Between the installation and quarry lagoon and is down hydraulic gradient of Process Building and storage tanks.		

* If the substances specified in this column are not used, produced, stored or released at the site this must be demonstrated in the monitoring plan.

**3.9 Water Environment and Sewer Discharge Conditions**

- 3.9.1 No liquid effluent or contaminated surface water arising from the Permitted Activities shall be discharged directly to the water environment from the Permitted Installation.
- 3.9.2 Surface water from buildings, hardstanding, and roadways, shall be collected in the surface water drains and discharged to the Surface water sewer and discharged to the Emission Points identified on the Borehole and Surface Water Discharge Points Plan in Appendix 1.
- 3.9.3 All surface water collected from within bunded areas “bund water” shall be sampled and tested in accordance with condition 3.9.4.
- 3.9.3.1 If the results of the sampling and testing carried out under Condition 3.9.4 show the bund water is below the event mean concentration (EMC) value or is within the range, as appropriate, for the parameters specified in Table 3.3 it shall be deemed “uncontaminated” then the operator may discharge it to the surface water sewer system to the Emission Point identified on the plan in Appendix 1.
- 3.9.3.2 Bund water which exceeds the (EMC) or is outwith the range for the parameters in Table 3.3 shall be deemed to be “contaminated” and must be either treated in the digester or transported to a suitably licensed facility for disposal.
- 3.9.4 Measurement and/or sampling of the emissions in Table 3.3 shall be carried out by the Operator at the sampling locations specified in that Table subject to the requirements for monitoring specified in Table 3.4.
- 3.9.5 The date, time and results of all samples and measurements carried out in compliance with Condition 3.9.3 shall be recorded by the Operator.

3.10 Air Emission Conditions

- 3.10.1 There shall be no emissions to air from the installation other than those specified in Table 3.5 which shall only be permitted from the emissions locations specified in Table 3.5 and identified on the Emissions Plan in Appendix 1.
- 3.10.2 The emissions specified in condition 3.10.1 shall not exceed the limits specified in Table 3.5.
- 3.10.3 The Operator shall carry out spot sampling (SS) and continuous (C) monitoring of emissions of the parameters specified in Table 3.5, at the sampling location specified in Table 3.5 and subject to the requirements for monitoring specified in Table 3.6.



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- 3.10.4 For any parameter specified in Table 3.5 other than oxygen, visible plume, smoke, or odour, all results of monitoring carried out under Condition 3.10.3 shall be corrected to the reference conditions as specified in Table 3.7. The results of all tests and data used to correct the monitoring results to the reference condition specified in this condition shall be recorded.
- 3.10.5 The Operator shall record the date, time, duration, and results of all monitoring carried out under Condition 3.10.3 and report the results. For each result, the report shall include the operational mode of the Permitted Installation at the time of monitoring, the name of the person carrying out the monitoring, any deviations from the methods specified in Table 3.6 and the associated confidence interval.
- 3.10.6 The Operator shall record and report the mass emission results for the parameters of the combined emissions specified in Table 3.5 using the method agreed in writing with SEPA (as summarised in Table 3.8). This information shall be reported in a format agreed in writing with SEPA.
- 3.10.7 Information used to estimate mass emissions in compliance with Condition 3.10.6 shall be recorded for each estimate.

3.11 Odour Conditions

- 3.11.1 All emissions to air from the Permitted Installation shall be free from offensive odour, as perceived by an Authorised Person, outside the Site Boundary.
- 3.11.2 Odour-masking agents or counteractants shall not be used to meet the requirements of Condition 3.11.1.
- 3.11.3 Olfactory monitoring shall be carried out to assess odour emissions downwind of the Site, at the Site Boundary, at least daily in accordance with the Odour Management and Monitoring Plan.
- 3.11.4 The Operator shall record the result of each assessment referred to at Condition 3.11.3. The records shall include the date, time, location, duration and result of the assessment as well as the name of the person making the assessment, the wind direction and strength and the general weather conditions at the time. The record shall further include the operational status of the Installation.
- 3.11.5 Before operating the process, the Operator shall implement and maintain the odour management plan (“the Odour Management Plan”) as described in Appendix 4 to SEPA’s Odour Guidance 2010. A copy of the Plan shall be reported to SEPA.
- 3.11.6 At least annually, the Operator shall carry out a systematic assessment and review of Odour Emissions associated with the Permitted Activities, the purpose of which shall be to identify methods of reducing odour Emissions and their impact. Each assessment shall be recorded and reported to SEPA.
- 3.11.7 The Odour Management Plan shall be updated following each systematic assessment and review as required by condition 3.11.6, the purpose of



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which shall be to implement the findings of the assessment in a systematic manner.

- 3.11.8 The Operator shall notify SEPA in writing on any proposed changes to the Odour Management Plan at least 14 days before the change being made.
- 3.11.9 The Odour Management Plan and all actions taken in accordance with the Odour Management Plan shall be recorded.
- 3.11.10 In the event that the Operator receives a complaint of odour from a member of the public, or SEPA notifies the Operator of a complaint of odour it received from a member of the public, the Operator shall record the receipt of the complaint, report receipt of the complaint to SEPA where the complaint has been received directly by the Operator, and establish and record whether the complaint was a result of an incident at the Permitted Installation.
- 3.11.11 Odour abatement and monitoring equipment shall be operated, maintained and calibrated according to manufacturer's instructions, a copy of which will be made available to SEPA if requested.
- 3.11.12 All doors and openings to the reception hall and separation hall shall be kept closed at all times other than to allow entry and exit of vehicles and personnel.
- 3.11.13 All vehicle access doors to the reception hall and separation hall shall have an airlock system fitted which will be in operation at all times whilst the doors are open.
- 3.11.14 All vehicle access doors to the reception hall and separation hall shall have fast acting doors.
- 3.11.15 The odour abatement system at the permitted installation shall operate continuously except in the event of a breakdown or maintenance of the odour abatement or related transfer system.
- 3.11.16 In the event of a breakdown or maintenance of the odour abatement or related transfer system which leads to or may lead to a breach of condition 3.11.1 of this Permit, no further waste shall be accepted at the site and all doors to the reception hall and separation hall shall be kept closed until such time as the odour abatement and transfer system is operating as normal. Should this occur, it will be treated as an incident and in accordance with Permit Conditions 2.5.1 to 2.5.5 inclusive.
- 3.11.17 Before Operation, the Operator shall record and implement a procedure for the removal of sludge/solids from the bottom of the digester tanks which includes the techniques to be applied to ensure no breach of condition 3.11.1 of this Permit. The required procedure shall be reported to SEPA.

3.12 Dust

- 3.12.1 All emissions to atmosphere from the permitted installation shall be free from visible emissions of particulate matter and fallout of particulate matter beyond the Site Boundary.



3.13 Noise and Vibration

- 3.13.1 Before operating the process, the Operator shall implement and maintain the noise and vibration management plan (“the Noise and Vibration Management Plan”) as provided in the Application. A copy of the Plan shall be reported to SEPA.
- 3.13.2 At least every 2 years, the Operator shall carry out a systematic assessment and review of Noise and Vibration emissions associated with the Permitted Activities, the purpose of which shall be to identify methods of reducing Noise and Vibration emissions. Each assessment shall be recorded and reported to SEPA.
- 3.13.3 All necessary measures shall be taken to minimise pollution arising from the Permitted Installation in respect of noise and vibration, as far as reasonably practicable. These measures shall include, but not be restricted to, those described in the Noise and Vibration Management Plan.

3.14 Litter

- 3.14.1 All operations on the Permitted Installation shall be carried out such that no litter escapes beyond the Permitted Installation boundary. On a daily basis any litter lying within the Permitted Installation shall be removed and contained.

3.15 Birds, Vermin & Insects

- 3.15.1 All operations on the Permitted Installation shall be carried out to minimise the nuisance and hazards arising from the Permitted Installation in respect of the presence of birds, vermin, and insects. The Permitted Installation shall be inspected at least once per week for the presence of birds, vermin, and insects.
- 3.15.2 The Permitted Installation shall be inspected at least once every 12 months by a person suitably qualified and experienced in pest control and a treatment programme shall be undertaken to deal with any identified infestation forthwith.

Table 3.3 – Emissions to Surface water systems

Source of Emission	Emission point	SW1	SW2	SW3
	Source of Emission	Uncontaminated Surface Water Site Road	Uncontaminated Surface Water	Surface water accumulating in bunds (Bund Water)
	Destination	Surface water system to Quarry Pond	Surface water system to Quarry Pond	Surface water system to Quarry Pond
	Sampling location	N/A	N/A	Bund Water Collection Sump
Limits for Parameters from Emission Source	Basis of limit Value			Event Mean Concentration (EMC) mg/l
	Biochemical Oxygen Demand			10
	Chemical Oxygen Demand			80
	Total Suspended Solids			30
	Ammoniacal Nitrogen			0.1
	Total Phosphorous			<2
	pH			6–9
	Fats Oils and Grease			The potential discharge shall not include significant traces of visible oil or grease
	Emissions	To comply with General Binding Rules 10 & 11 as specified within The Water Environment (Controlled Activities) (Scotland) Regulations 2011	To comply with General Binding Rules 10 & 11 as specified within The Water Environment (Controlled Activities) (Scotland) Regulations 2011	



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Table 3.4 – Emission of Bund Water to Surface Water System Sample Testing Requirements

Parameter	Emission point	Test Method	Reporting format	Instantaneous
				Frequency
Biochemical Oxygen Demand	SW3	Measurement Assurance and Certification Scotland ISO/IEC 17025n	As Agreed with SEPA	Before discharge of water from any bund where a spill, accident, or leak of process effluent has recently occurred
Chemical Oxygen Demand	SW3	MACS ISO/IEC 17025	As Agreed with SEPA	Before water from any bund is discharged to the Surface Water System
Total Suspended Solids	SW3	MACS ISO/IEC 17025	As Agreed with SEPA	Before water from any bund is discharged to the Surface Water System
Ammoniacal Nitrogen	SW3	MACS ISO/IEC 17025	As Agreed with SEPA	Before water from any bund is discharged to the Surface Water System
Total Phosphate	SW3	MACS ISO/IEC 17025	As Agreed with SEPA	Before water from any bund is discharged to the Surface Water System
pH	SW3	MACS ISO/IEC 17025	As Agreed with SEPA	Before water from any bund is discharged to the Surface Water System

Table 3.5 – Emissions to Air ELVs

Source of Emission	Emission point number	A1	A2	A3	A4
	Emission source	Combined CHP Stack	Back-Up Boiler	Flare	Odour Control System Stack
	Stack height/diameter (m)	10	10		14
	Location on Site Plan				
	NGR				
Monitoring Details	Type of Monitoring	SS	SS	C & SS	C & SS
	Sampling Location	Stack		Stack	Stack
	Temperature	-	-	(C) 1000°C	-
	Odour	(SS) No Offensive Odour			
		-	-	-	(C)1000 OUE/m ³
	Smoke	No Visible Emissions	No Visible Emissions	Ringelmann Shade 1 (SS)	-
	Sulphur Dioxide (SO₂)	300mg/Nm ³	35mg/Nm ³	-	-
	Oxides of Nitrogen (NO_x)	250mg/Nm ³	100mg/Nm ³	-	-
	Carbon Monoxide (CO)	1000mg/Nm ³	(C) 250mg/m ³	-	-
	(VOC)	1000mg/Nm ³	-	-	-
	Non-Methane Volatile Organic Carbon (NMVOC)	75mg/Nm ³	-	-	-
	Hydrogen Sulphide (H₂S)	5ppm at outlet	-	-	-



Table 3.5 Emissions to Air ELVs (continued)

Source of Emission	Emission point number	A5	A6	A7
	Emission source	Digester Tank 1 Pressure Relief Valve	Digester Tank 2 Pressure Relief Valve	Digester Tank 3 Pressure Relief Valve
	Stack height/diameter (m)	-	-	-
	Location on Site Plan			
	NGR			
Monitoring Details	Type of Monitoring	Olfactory Assessment		
	Sampling Location	Site Boundary		
	Temperature	-	-	-
	Odour	(SS) No Offensive Odour		
	Smoke	-	-	-
	Sulphur Dioxide (SO ₂)	-	-	-
	Oxides of Nitrogen (NO _x)	-	-	-
	Carbon Monoxide (CO)	-	-	-
	Volatile Organic Carbon (VOC)	-	-	-
	Non-Methane Volatile Organic Carbon (NMVOC)	-	-	-
	Hydrogen Sulphide (H ₂ S)	-	-	-

“-“indicates no limit set.



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Table 3.6 – Emissions to Air Monitoring Requirements

Parameter	Emission Point Number	Spot Sampling (SS)		Continuous (C)	
		Standard	Frequency	Standard	Frequency
Temperature	A3			BS ISO 14146:1999	At least one sample every 30 seconds
Odour	A1 A2 A3 A5 A6 A7	Olfactory Assessment	Daily		
	A4	Olfactory Assessment	Daily	Waste Treatment BREF	As required by the Odour Management Plan or Incident response
Smoke	A1, A2	Visual Assessment	Daily when operating		
	A3	BS2742:2009			
Sulphur Dioxide (SO ₂)	A1 A2	Manufacturers Emission Standards	Annually		
Oxides of Nitrogen (NO _x)	A1 A2				
Carbon Monoxide (CO)	A1 A2			Manufacturers Emission Standard	Continuous during combustion
Volatile Organic Carbon (VOC)	A1	Manufacturers Emission Standards	Annually		
Non-Methane Volatile Organic Carbon (NMVOC)	A1				
Hydrogen Sulphide (H ₂ S)	A1 A2			Gas purity monitoring	Continuous inlet monitoring

Table 3.7 – Reference Conditions

Emission Point Number	Reference Condition
A1 A2	273.15K, dry gas, 101.3kPa, 5% oxygen

Table 3.8 – Mass Emissions to Air

Parameter	Combined Emissions Point	Method (Summary)	Mass Emissions Result to be recorded as
Sulphur dioxide	A1 + A2	Estimate based on monitored emissions	Kg of sulphur dioxide
Oxides of nitrogen	A1 + A2	Estimate based on monitored emissions	Kg of nitrogen dioxide
Carbon monoxide	A1 + A2	Estimate based on monitored emissions	Kg of carbon monoxide

4 CONDITIONS APPLYING TO THE RECEPTION OF WASTE AT THE PERMITTED INSTALLATION AS A WHOLE

4.1 Waste Types and Quantities

- 4.1.1 Only waste types detailed in column 1 of Table 4.1 shall be accepted at the site.
- 4.1.2 Regardless of condition 4.1.1 no Special Waste, as defined in the Special Waste Regulations 1996 (As amended), shall be accepted at the Permitted Installation.
- 4.1.3 Wastes identified in column 1 of Table 4.2 shall not be stored at the Permitted Installation for longer than the time specified in column 2 of that table, before being subjected to the activity in column 3 of Table 4.2.
- 4.1.4 Following acceptance at the Permitted Installation, waste listed in column 1 of Table 4.2 shall only be stored in the area listed in column 4 of that table, up to the maximum tonnage in Column 5 of Table 4.2.
- 4.1.5 The estimated amount of each waste identified in column 1 of Table 4.2 that may be processed annually in the Permitted Installation is detailed in column 6 of Table 4.2.
 - 4.1.5.1 Regardless of condition 4.1.5 the total amount of waste that may be processed in the permitted installation shall not exceed 100,000 tonnes in any calendar year.
- 4.1.6 The operator shall maintain a record of the location, estimated quantities and types of all wastes stored within the permitted installation. The record shall be updated weekly.
- 4.1.7 The operator shall record the monthly total quantity of all wastes utilised in the Permitted Installation, and the monthly quantities of each waste specified in Table 4.1 that are digested in the Permitted Installation.

4.2 Pre-Acceptance Assessments of Waste

- 4.2.1 Before accepting new streams of waste at the Permitted Installation the Operator must carry out a Pre-Acceptance Assessment on all waste streams. The assessment must be made on representative samples of the proposed waste stream, be statistically robust, and should include a risk assessment of the material.
- 4.2.2 Waste shall only be accepted at the Permitted Installation where the waste has been deemed suitable for acceptance by the pre-acceptance procedure detailed in Condition 4.2.1.
- 4.2.3 The Operator shall record all Pre-Acceptance Assessments and shall keep a copy at the Permitted Installation.
- 4.2.4 If the process producing the waste stream changes, then the Pre-Acceptance Assessment must be repeated using new waste samples which are representative of the process change.

**4.3 Waste Acceptance**

- 4.3.1 Waste shall only be accepted on site if there is sufficient capacity to receive it and that the specified limits in Conditions 4.1.1 to 4.1.5.1 inclusive are complied with.
- 4.3.2 The Permit Holder shall monitor all wastes entering the site (including weight recording of waste loads) to ensure that they are within the types/quantities permitted under the conditions of this permit. Vehicles shall not be permitted to proceed to the reception hall unless the source of waste has been ascertained and where practicable, the load visually inspected by a suitably trained member of staff and found to comply with the requirements of this permit.
- 4.3.3 All waste received shall be further inspected by a suitably trained member of staff when it is kept/treated, to check that the waste is permitted for acceptance under the conditions of this permit. Any waste found not to conform to the conditions of this permit detected during this inspection shall be immediately removed to the designated area.

4.4 Procedure for Rejected Loads

- 4.4.1 Where the Permit Holder refuses any person permission to deposit waste at the site the Permit Holder shall take all reasonable steps to obtain the following details: name and address of person, registration number of vehicle, quantity and type of waste, date and time of refusal. Details of the occurrence shall be passed to SEPA forthwith.

4.5 Designated area for storage of non-conforming wastes

- 4.5.1 An area within the site boundary shall be provided for isolating non-conforming wastes. This area shall have an impermeable surface designed to ensure that no liquid fraction can escape beyond this area.
- 4.5.2 All containers used to store non-conforming wastes shall be constructed of such materials, and sealed, to prevent the release of pollutants and be covered to prevent the ingress of rainwater.

Table 4.1 – Permitted Waste Types

European Waste Catalogue Code	Description including physical form	*Estimated Quantity on site at any time (tonnes)	*Estimated Total Quantity per Year (tonnes)
02 01 wastes from agriculture, horticulture, forestry, hunting and fishing			
02 01 03	Plant-tissue waste	60	10000
02 01 06	Animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off site.	120	15000
02 01 99	Wastes not otherwise specified	60	5000
02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing, conserve production, yeast and yeast extract production, molasses preparation and fermentation.			
02 03 01	Sludges from washing, cleaning, peeling, centrifuging and separation	45	5000
02 03 04	Materials unsuitable for consumption or processing	75	10000
02 03 99	Wastes not otherwise specified	75	10000
02 05 wastes from the dairy products industry			
02 05 01	Materials unsuitable for consumption or processing	25	2500
02 05 99	Wastes not otherwise specified	29	2500
02 06 wastes from the baking and confectionary industry			
02 06 01	Materials unsuitable for consumption or processing	25	2500
02 06 99	Wastes not otherwise specified	20	2500
02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)			
02 07 01	Wastes from washing, cleaning, and mechanical reduction of raw materials	45	5000
02 07 02	Wastes from spirits distillation	80	4000
02 07 04	Materials unsuitable for consumption or processing	180	20000
02 07 99	Wastes not otherwise specified	45	5000
Estimated Total non-hazardous waste (this section)		875	99000
02 02 garden and park wastes (including cemetery waste)			
20 02 01	Biodegradable waste	77	1000
Estimated Total non-hazardous waste (this section)		77	1000

Overall Waste Totals	952	100000
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- Within the Overall Waste Totals for the site The Estimated Quantity for each waste type is illustrative and will depend on the feed requirements for the digestion process



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Table 4.2 – Waste Storage Areas and Times

Waste Type	Maximum Duration of Storage Before Activity described in Column 3	Activity	Storage Area	Storage Capacity (m ³)	Annual quantity (tonnes) *
All Waste containing ABP	60 hours	Before entering the Buffer Tank	Reception Building Feeding System 1 Feeding System 2 Clamp B	120 120 568	25000
Other waste streams	60 hours	Digestion	Clamps and Feeding systems in Reception building	120 120 568	35000
Municipal grass cuttings	60 hours	Digestion	Clamps in Reception building	77	1000
Liquid wastes inc. Distillers draff Pot ale syrup	60 hours	Digestion	Pre-Storage Tank 1 Pre-Storage Tank 2	302 100	34000
Rejected fraction from digestate screening	2 weeks	Before being removed from site or fed back into digester	Digestate tank	10053	On demand

- Within the overall Tonnage for the site, the Estimated Quantity for each waste stream is illustrative and will depend on the feed requirements for the digestion process



5 CONDITIONS APPLYING TO EMISSIONS FROM THE ANAEROBIC DIGESTION PROCESS

5.1 Operation of the Anaerobic Digestion Process

- 5.1.1 The Operator shall continuously record the pressure in the biogas system and if the recorded pressure exceeds 8 mbar at any time, the measured pressure, time date and duration of, and the reason for the exceedance shall be recorded.
- 5.1.2 The Operator shall record the location and settings for all pressure release valves (PRVs) associated with the AD process.
- 5.1.3 All PRVs shall be linked to an audible and visual alarm which shall be connected to telemetry 24 hours a day.
- 5.1.4 Any activation of the PRVs will be regarded as an incident and must be reported to SEPA immediately. The time, date and duration of the incident will be automatically recorded.
- 5.1.5 The Operator shall record the time, date and duration of each occasion on which an engine, boiler or flare whose purpose is to combust biogas generated by the AD process described in Paragraph 1.1.4.5 of Schedule 1 of the Permit is unavailable for use, along with the reason for its unavailability.
- 5.1.6 The Operator shall continuously measure and record hydrogen sulphide concentrations in the biogas feed to the CHP specified in Paragraph 1.1.4.7. If the recorded hydrogen sulphide concentration exceeds 350ppm at any time, the measured concentration, time, date, duration of and reason for the exceedance shall be recorded.
- 5.1.7 The concentration of Hydrogen Sulphide in the biogas feed to the CHP specified in Paragraph 1.1.4.7 shall not exceed 350ppm at any time.
- 5.1.8 Whenever the flare described in Paragraph 1.1.4.8 of Schedule 1 of the Permit is operating a minimum gas exit temperature of 1,000°C shall be maintained.
- 5.1.9 Failure to maintain the flare gas exit temperature above 1,000°C outwith start-up and shut down, shall result in an alarm being raised. The time, date and duration of, and reason for the failure to meet the required minimum temperature shall be recorded.
- 5.1.10 Before operating the process, the Operator shall have a documented Operating Procedure in place which as a minimum defines the method of controlling the quality and quantity of waste introduced into the anaerobic digestion activity. A copy of the procedure shall be submitted to SEPA.

6 CONDITIONS APPLYING TO THE COMBINED HEAT AND POWER PLANT

6.1 Combined Heat and Power Plant Description

6.1.1 The Combined Heat and Power Plant shall comprise the combustion plant, boiler and stack plant described in condition 1.1.4.7.

6.1.2 The permitted fuels for the Combined Heat and Power Plant shall be Biomethane and or Natural Gas.

6.2 Start-Up and Shut-Down

6.2.1 All reasonable steps must be taken to ensure periods of start-up and shut-down of the combustion plant are kept as short as possible.

6.3 Emission Limit Values

6.3.1 The discharge of the substances specified in Table 3.5 into the air from the combustion plant must not exceed the relevant emission limit value.

6.3.2 The discharge of any other substance not specified in Table 3.5 into the air from the medium combustion plant must not cause significant environmental harm.

6.4 Monitoring of Emissions

6.4.1 Monitoring of emissions must be undertaken as specified in Table 3.6.

6.4.2 Measurements must be taken when the medium combustion plant is:

- a) Operating under stable conditions at a representative even load;
- b) Not undergoing start-up or shutdown.

6.4.3 Monitoring of Mass emissions shall be undertaken as specified in Table 3.8.

6.5 Combustion Plant Record Keeping

6.5.1 Records must be kept of the following:

- a) All monitoring results and verification of compliance with the emission limit values specified in Table 3.5;
- b) Any breach of the emission limit values specified in Table 3.5, and the measures taken to restore compliance;
- c) The results of all tests and data used to correct the monitoring results to the reference condition specified in Table 3.5;
- d) The type and quantity of fuel used;

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e) Mass emissions as required by condition 3.10.6.

6.5.2 All information recorded, kept, or submitted, to SEPA regarding the Combustion Plant must be kept for a minimum of 5 years and provided to SEPA upon request.

6.6 Data Submission

6.6.1 The results of the monitoring of emissions, as described in Section 6.4, must be submitted to SEPA no later than 2 months from the date on which monitoring was undertaken.

6.7 Heat and Power Plan

6.7.1 Regardless of the requirements of Condition 2.6.1, the Operator shall prepare, maintain, and update a Heat and Power Plan on an annual basis, with a report submitted to SEPA no later than 31 January of each year.

6.7.2 The Heat and Power Plan shall contain as a minimum the information as specified in Annex 2 of SEPA's Thermal treatment of waste guidelines 2014 (or any subsequent revisions thereof) and will:

6.7.2.1 Demonstrate how the plant is moving towards good quality combined heat and power status and compliance with Condition 6.7.3.
















6.7.3 Within 7 years from the date of this Permit, energy in the form of heat and power, or heat only, shall be recovered, and the amount of energy recovered shall exceed that amount of energy equivalent to a Quality Index value of 85.

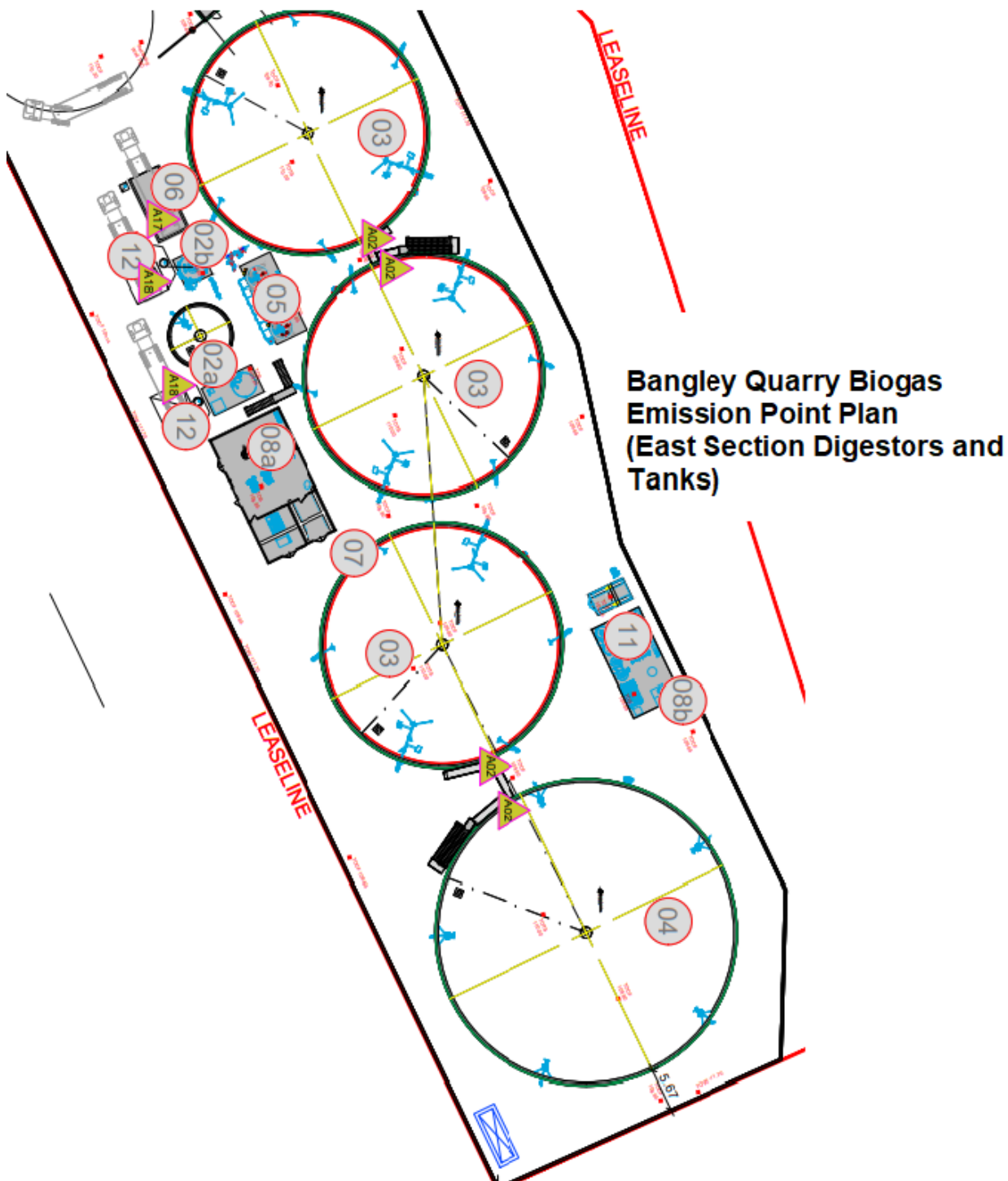
APPENDIX 1 – EMISSION POINT PLAN

Key to plan below

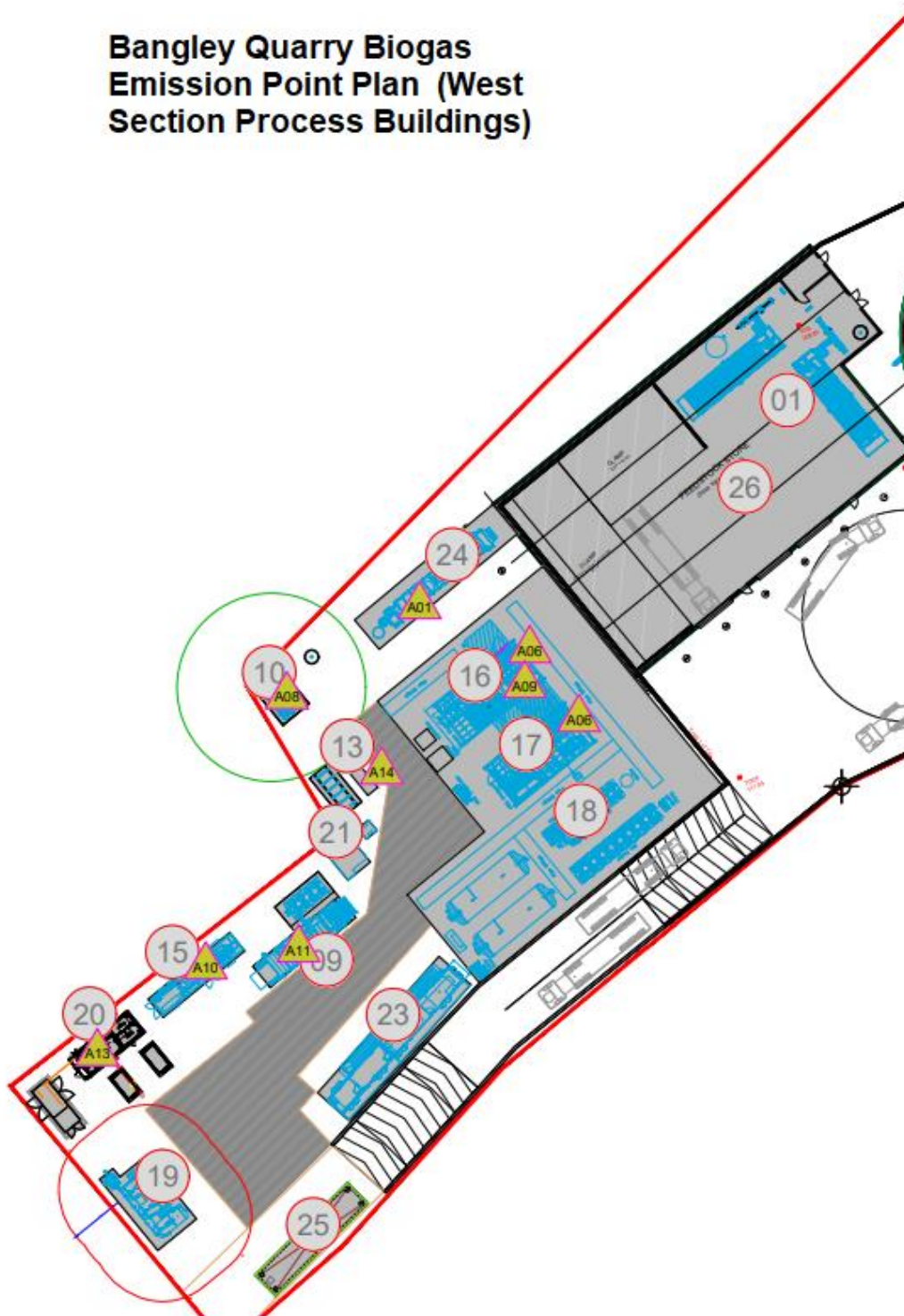
No	Plant item	Gross brutto (m ³)	Height (m)	Dimension (m)	FFL	Max height
01	Feed hopper	150	3.50m		110.00m	114.00m
02a	Buffer Tank	302	6.00m	Ø 8.00m	110.00m	118.15m
02b	Import tank	100	11.00m	Ø 3.50m	110.00m	122.00m
03	primary digester tank	6.434	8.00m	Ø 32.00m	110,00m	125.00m
04	digestate storage tank	10,053	8.00m	Ø 40.00m	110.00m	125.00m
05	pasteurisation	30	5.50m		110.00m	115.50m
06	Solid digestate Take-Off		6.00m		110.00m	116.00m
07	ferric chloride tank	25	4.30m	Ø 3.30m	110.00m	114.50m
08a	Pump room		4.50m	18 x 10 x 4m	110.00m	115.00m
08b	switchboard container		3.00m	5 x 3 x 3m	110.00m	113.00m
09	CHP unit		3.00m	12 x 3 x 3m	110.10m	120.10m
10	biogas flare		8.50m		110.10m	118.60m
11	biogas treatment		6.00m		110.10m	116.00m
12	filling/extraction station liquids		-		109.60m	110.00m
13	emergency generator		3.00m		110.10m	113.00m
15	boiler		3.00m	12 x 3 x 3m	110.10m	120.00m
16	biogas clean-up plant		3.00m		110.10m	113.00m
17	CO2 recovery plant		3.00m		110.10m	123.00m
18	CO2 storage tanks		3.00m		110.10m	123.00m
19	propane tanks		3.00m		110.10m	113.00m
20	network entry facility		3.00m		110.10m	113.00m
21	substation/LV board/transformer		3.00m		110.10m	113.00m
23	site office		3.00m	21 x 3	110.10m	116.00m
24	odour abatement		3.00m		110.00m	113.00m
25	weighbridge		-		111.50m	111.50m
26	process building		13.50m		109.60m	123.50m

Key to Plan below

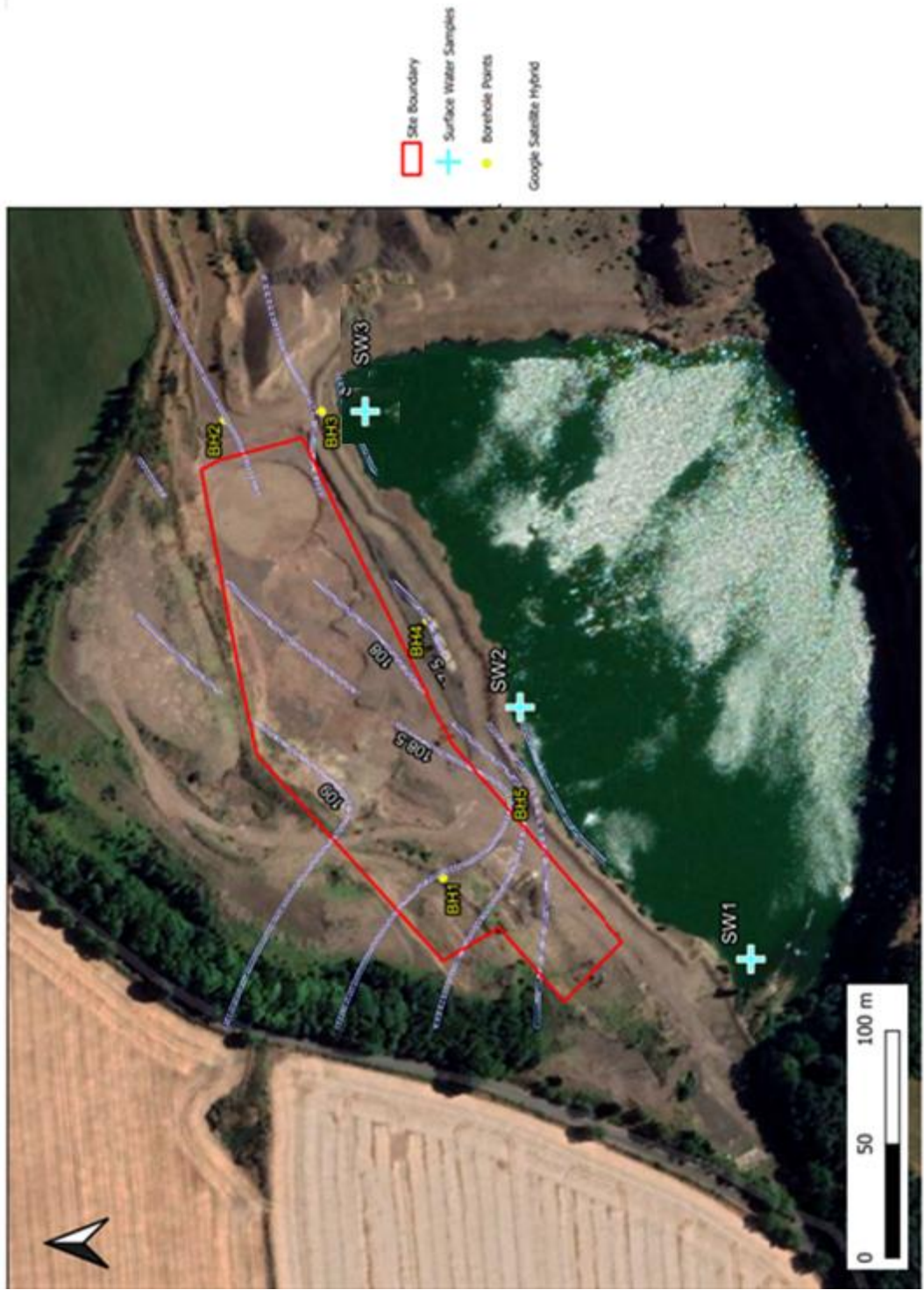
emission points	
	exhaust stack odour abatement system
	emergency pressure relief valve on fermenter tank 1
	emergency pressure relief valve on fermenter tank 2
	emergency pressure relief valve on fermenter tank 3
	Emergency pressure relief valve on digestate storage tank
	CO2 vent from gas upgrading unit
	CO2 vent from CO2 recovery unit
	emergency gas flare
	emergency pressure relief valve on gas upgrading unit
	exhaust stack Boiler
	exhaust stack CHP
	pressure relief valve GEU
	exhaust emergency generator
	separation
	vent from tanker



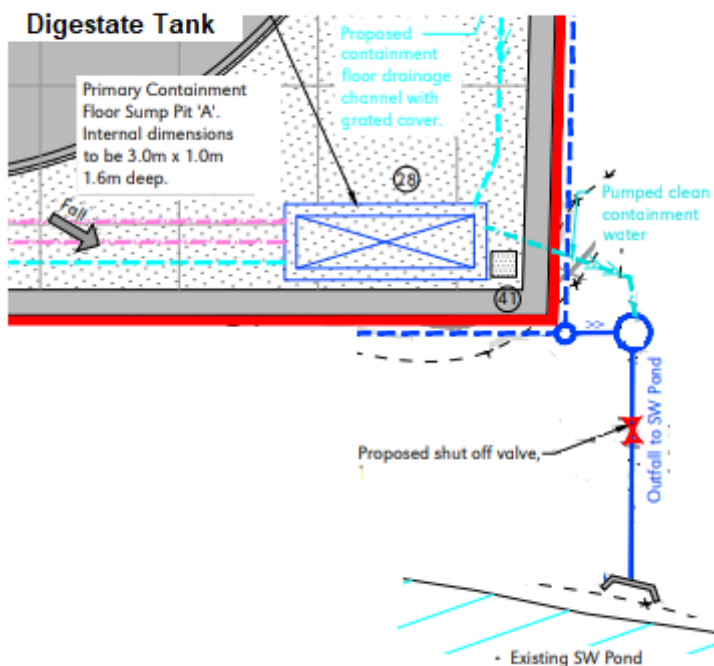
Bangley Quarry Biogas Emission Point Plan (West Section Process Buildings)



Boreholes and Surface Water Discharge Points



SW3 layout



EXPLANATORY NOTES

(These Explanatory Notes do not form part of the Permit)

1. BAT

It should be noted that Regulation 9(11) & (12) of the Regulations specify that there is an implied Condition in every Permit that, in operating the installation or mobile plant, the Operator shall use the best available techniques (BAT) for preventing or, where that is not practicable, reducing Emissions from the installation or mobile plant.

This implied Condition does not apply in relation to any aspect of the operation of the installation or mobile plant, which is regulated by a specific Condition of the Permit. Examples of aspects of the operation that have not been regulated by specific Conditions are management and supervision systems, training and qualification and maintenance in general.

BAT is defined in Regulation 3 of the Regulations as follows:

"Best available techniques" means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing in principle the basis for Emission limit values designed to prevent and, where that is not practicable, generally to reduce Emissions and the impact on the environment as a whole.

"available techniques" means those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable Conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the UK, as long as they are reasonably accessible to the operator.

"best" means in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole.

"techniques" includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Schedule 2 of the Regulations specifies the matters to be taken into account in determining BAT.

In considering BAT, SEPA would expect the Operator to have regard to all relevant PPC sectoral or other technical guidance, including BAT Reference Documents published by the European Commission and UK technical guidance published by the Environment Agency.

2. GENERAL STATUTORY REQUIREMENTS

The Permit does not detract from any other statutory requirements applicable to you in respect of the Permitted Installation, such as any need to obtain planning permission or building regulations approval or any responsibilities under legislation for health, safety and welfare in the workplace.

3. APPEALS

If you are aggrieved by any of the Conditions of the Permit, you should initially contact the local SEPA Office at the address or telephone number below. Further information on your right of appeal and the appeals procedure is contained Regulation 22 and Schedule 8 of the Regulations.

4. SUBSISTENCE CHARGES

An annual subsistence charge will be payable in respect of the Permit in terms of the Pollution Prevention and Control (Scotland) Charging Scheme 2002, or any relevant charging scheme made under Section 41 of the Environment Act 1995, copies of which are available from SEPA.

5. ADDRESS AND TELEPHONE NUMBERS

The contact address and telephone number for all information to be reported in terms of the Permit, is as follows: -

Scottish Environment Protection Agency
Angus Smith Building
6 Parklands Avenue
Eurocentral
Holytown
North Lanarkshire
M11 4WQ

Tel No:0800 80 70 60

6. REVIEW OF CONDITIONS

The Conditions of the Permit will be periodically reviewed by SEPA.

7. PROPOSED CHANGE IN OPERATION OF INSTALLATION

It is a requirement of Regulation 12 of the Regulations that if you propose to make a change in the operation of the installation, you must notify SEPA at least 14 days before making the change. The requirement under Regulation 12 does not apply if you have already made an application to SEPA for the variation of the Conditions of the Permit containing a description of the proposed change.

N.B. the requirements of Regulation 12 are in addition to any obligations you may have under the Permit itself to only operate the Permitted Installation in the manner set out in the Permit and to notify SEPA of proposed changes to the Permitted Installation.

Regulation 13 and Schedule 7 of the Regulations provide details on applications for variation of the Permit in respect of proposed changes and substantial changes in operation.

“Change in operation” and “substantial change in operation” are defined in Regulation 2 of the Regulations.

8. ENFORCEMENT & OFFENCES

If SEPA is of the opinion that you have contravened or are contravening or are likely to contravene a Condition of the Permit it may serve an Enforcement Notice. Further details on Enforcement Notices are provided in Regulation 19 of the Regulations.

If SEPA is of the opinion that the operation of an installation or mobile plant involves a risk of serious pollution it must, in certain circumstances, serve a Suspension Notice on you. Further details on Suspension Notices are provided in Regulation 20 of the Regulations.

It is an offence to operate an installation or mobile plant covered by the Regulations without a Permit or in breach of the Conditions of the Permit. It is an offence to fail to comply with the requirements of an Enforcement or Suspension Notice. It is an offence to intentionally make a false entry in any record required to be kept under a Condition of a Permit. Further details on offences and on penalties liable to be imposed upon conviction of an offence are provided in Regulation 30 of the Regulations.

Directors, managers and other individuals within a company may be held personally liable for offences under the Regulations.

All personnel who are responsible for fulfilling any Condition of the Permit should be made aware of these facts.

9. RECORDED SYSTEMS, PROCEDURES OR INFORMATION RECORDING/ RETURN REQUIREMENTS

Where a Condition requires any system, procedure or information record/return, the Operator may demonstrate compliance by making use of any relevant existing written system used for any other purpose and which meets the requirements of the relevant Condition.

10. SYSTEMATIC ASSESSMENT (AND REVIEW)

Where a Condition of the permit requires a “systematic assessment (and review)” the assessment should be undertaken in a methodical and arranged manner. If you require guidance on the scope or extent of any assessment (and review) required to be undertaken, you should contact your local SEPA office at the address or telephone number given above.