

# **Review of an Environmental Permit for an Installation subject to Chapter II of the Industrial Emissions Directive under the Environmental Permitting (England & Wales) Regulations 2016 (as amended)**

## **Decision document recording our decision-making process following review of a permit**

The Permit number is: EPR/DB3508MA  
The Operator is: Berkswell Recycling Limited  
The Installation is: Berkswell Quarry  
This Variation Notice number is: EPR/DB3508MA/V005

### **What this document is about**

Article 21(3) of the Industrial Emissions Directive (IED) requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication by the European Commission of updated decisions on BAT Conclusions.

We have reviewed the permit for this installation against the revised BAT Conclusions for the Waste Treatment industry sector published on 10 August 2018 in the Official Journal of the European Union. In this decision document, we set out the reasoning for the consolidated variation notice that we have issued.

It explains how we have reviewed and considered the techniques used by the Operator in the operation and control of the plant and activities of the installation. This review has been undertaken with reference to the decision made by the European Commission establishing Best Available Techniques (BAT) Conclusions (BATc) for Waste Treatment as detailed in document reference C(2018) 5070. It is our record of our decision-making process and shows how we have taken into account all relevant factors in reaching our position. It also provides a justification for the inclusion of any specific conditions in the permit that are in addition to those included in our generic permit template.

As well as considering the review of the operating techniques used by the Operator for the operation of the plant and activities of the installation, the consolidated variation notice takes into account and brings together in a single document all previous variations that relate to the original permit issue. Where this has not already been done, it also modernises the entire permit to reflect the conditions contained in our current generic permit template.

The introduction of new template conditions makes the Permit consistent with our current general approach and with other permits issued to Installations in this sector. Although the wording of some conditions has changed, while others have been deleted because of the new regulatory approach, it does not reduce the level of environmental

protection achieved by the Permit in any way. In this document, we therefore address only our determination of substantive issues relating to the new BAT Conclusions.

We try to explain our decision as accurately, comprehensively and plainly as possible. Achieving all three objectives is not always easy, and we would welcome any feedback as to how we might improve our decision documents in future.

## **How this document is structured**

1. Our decision
2. How we reached our decision
3. The legal framework
4. Annex 1 – Review of operating techniques within the Installation against BAT Conclusions.
5. Annex 2 – Review and assessment of changes that are not part of the BAT Conclusions derived permit review
6. Annex 3 – Improvement Conditions

# 1 Our decision

We have decided to issue the Variation Notice to the Operator. This will allow the Operator to continue to operate the Installation, subject to the conditions in the Consolidated Variation Notice that updates the whole permit.

We consider that, in reaching our decision, we have taken into account all relevant considerations and legal requirements and that the varied permit will ensure that a high level of protection is provided for the environment and human health.

The Consolidated Variation Notice contains many conditions taken from our standard Environmental Permit template including the relevant annexes. We developed these conditions in consultation with industry, having regard to the legal requirements of the Environmental Permitting Regulations and other relevant legislation. This document does not therefore include an explanation for these standard conditions. Where they are included in the Notice, we have considered the techniques identified by the operator for the operation of their installation, and have accepted that the details are sufficient and satisfactory to make those standard conditions appropriate. This document does, however, provide an explanation of our use of “tailor-made” or installation-specific conditions, or where our Permit template provides two or more options.

## 2 How we reached our decision

### 2.1 Requesting information to demonstrate compliance with BAT Conclusion techniques

We issued a Notice under Regulation 61(1) of the Environmental Permitting (England and Wales) Regulations 2016 (a Regulation 61 Notice) on 21/09/2019 requiring the Operator to provide information to demonstrate where the operation of their installation currently meets, or how it will subsequently meet, the revised standards described in the relevant BAT Conclusions document.

The Notice required that where the revised standards are not currently met, the operator should provide information that:

- describes the techniques that will be implemented before 17 August 2022, which will then ensure that operations meet the revised standards, or
- justifies why standards will not be met by 17 August 2022, and confirmation of the date when the operation of those processes will cease within the Installation or an explanation of why the revised BAT standards are not applicable to those processes, or
- justifies why an alternative technique will achieve the same level of environmental protection equivalent to the revised BAT standards described in the BAT Conclusions.

Where the Operator proposed that they were not intending to meet a BAT standard that also included a BAT Associated Emission Level (BAT-AEL) described in the BAT Conclusions Document, the Regulation 61 Notice required that the Operator make a formal request for derogation from compliance with that BAT-AEL (as provisioned by Article 15(4) of IED). In this circumstance, the Notice identified that any such request for derogation must be supported and justified by sufficient technical and commercial information that would enable us to determine acceptability of the derogation request.

The Regulation 61 Notice response from the Operator was received on 27/05/2020.

We considered it was in the correct form, however, most of the supporting documentation which could be used as evidence to demonstrate compliance with the BAT conclusions was not submitted. We completed the determination based on the information and supporting information received.

The Operator made no claim for commercial confidentiality. We have not received any information in relation to the Regulation 61 Notice response that appears to be confidential in relation to any party.

## 2.2 Review of our own information in respect to the capability of the Installation to meet revised standards included in the BAT Conclusions document

Based on our records and previous experience in the regulation of the installation, we consider that the Operator will be able to comply with the techniques and standards described in the BAT Conclusions other than for those techniques and requirements described in BAT Conclusion 2, 4, 5, 10, 11, 19, 21, 23, 33 and 37. In relation to these BAT Conclusions, we do not fully agree with the Operator in respect of their current stated capability as recorded in their response to the Regulation 61 Notice. We have therefore included Improvement Condition IC2 in the Consolidated Variation Notice to ensure that the requirements of the BAT Conclusions are delivered before 17 August 2022.

## **3 The legal framework**

The Consolidated Variation Notice will be issued under Regulations 18 and 20 of the EPR. The Environmental Permitting regime is a legal vehicle which delivers most of the relevant legal requirements for activities falling within its scope. In particular, the regulated facility is:

- an *installation* as described by the IED;
- subject to aspects of other relevant legislation which also have to be addressed.

We consider that, in issuing the Consolidated Variation Notice, it will ensure that the operation of the Installation complies with all relevant legal requirements and that a high level of protection will be delivered for the environment and human health.

We explain how we have addressed specific statutory requirements more fully in the rest of this document.

## **Annex 1: decision checklist regarding relevant BAT Conclusions**

The BAT Conclusions for the Waste Treatment sector, were published by the European Commission on 10 August 2018. There are 53 BAT Conclusions. This annex provides a record of decisions made in relation to each relevant BAT Conclusion applicable to the installation. This annex should be read in conjunction with the Consolidated Variation Notice.

The overall status of compliance with the BAT conclusion is indicated in the table as:

**NA – Not Applicable**

**CC – Currently Compliant**

**FC – Compliant in the future (within 4 years of publication of BAT conclusions)**

**NC – Not Compliant**

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
1	<p>In order to improve the overall environmental performance, BAT is to implement and adhere to an environmental management system (EMS) that incorporates all of the following features:</p> <ul style="list-style-type: none"> <li>I. commitment of the management, including senior management;</li> <li>II. definition, by the management, of an environmental policy that includes the continuous improvement of the environmental performance of the installation;</li> <li>III. planning and establishing the necessary procedures, objectives and targets, in conjunction with financial planning and investment;</li> <li>IV. implementation of procedures paying particular attention to: <ul style="list-style-type: none"> <li>(a) structure and responsibility,</li> <li>(b) recruitment, training, awareness and competence,</li> <li>(c) communication,</li> <li>(d) employee involvement,</li> <li>(e) documentation,</li> <li>(f) effective process control,</li> <li>(g) maintenance programmes,</li> <li>(h) emergency preparedness and response,</li> <li>(i) safeguarding compliance with environmental legislation;</li> </ul> </li> </ul>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 1. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 1.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<p>V. checking performance and taking corrective action, paying particular attention to:</p> <ul style="list-style-type: none"> <li>(a) monitoring and measurement (see also the JRC Reference Report on Monitoring of emissions to air and water from IED installations – ROM),</li> <li>(b) corrective and preventive action, recruitment, training, awareness and competence,</li> <li>(c) maintenance of records,</li> <li>(d) independent (where practicable) internal or external auditing in order to determine whether or not the EMS conforms to planned arrangements and has been properly implemented and maintained</li> </ul> <p>VI. review, by senior management, of the EMS and its continuing suitability, adequacy and effectiveness;</p> <p>VII. following the development of cleaner technologies;</p> <p>VIII. consideration for the environmental impacts from the eventual decommissioning of the plant at the stage of designing a new plant, and throughout its operating life;</p> <p>IX. application of sectoral benchmarking on a regular basis;</p> <p>X. waste stream management (see BAT 2);</p> <p>XI. an inventory of waste water and waste gas streams (see BAT 3);</p> <p>XII. residues management plan (see description in Section 6.5);</p> <p>XIII. accident management plan (see description in Section 6.5);</p>		



BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<p>XIV. odour management plan (see BAT 12)  XV. noise and vibration management plan (see BAT 17).</p>		
2	<p>In order to improve the overall environmental performance of the plant, BAT is to use all of the techniques listed below:</p> <p>(a) Set up and implement waste characterisation and pre-acceptance procedures;  (b) Set up and implement waste acceptance procedures;  (c) Set up and implement a waste tracking system and inventory;  (d) Set up and implement an output quality management system;  (e) Ensure waste segregation;  (f) Ensure waste compatibility prior to mixing or blending of waste;  (g) Sort incoming solid waste</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 2 in response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are compliant with the BATc 2.</p> <p>We consider that aspects of BATc 2 (a) have not been adequately addressed with respect to characterisation of the following non-standard waste streams: EWC 04 02 10, 17 02 01, 19 08 05, 19 12 07, 03 03 02 and 20 01 38.</p> <p>While supporting evidence was not supplied, our site compliance report indicates that site operations are likely to be compliant with BAT. Therefore, we consider that the operator will be future compliant with BATc 2.</p> <p>We are satisfied that the Installation will be future compliant with BATc 2. Improvement</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			<p>condition IC2 is incorporated into the permit (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>
3	<p>In order to facilitate the reduction of emissions to water and air, BAT is to establish and to maintain an inventory of waste water and waste gas streams, as part of the environmental management system (see BAT 1), that incorporates all of the following features:</p> <p>(i) information about the characteristics of the waste to be treated and the waste treatment processes, including:</p> <p>(a) simplified process flow sheets that show the origin of the emissions;</p> <p>(b) descriptions of process-integrated techniques and waste water/waste gas treatment at source including their performances;</p> <p>(ii) information about the characteristics of the waste water streams, such as:</p> <p>(a) average values and variability of flow, pH, temperature, and conductivity;</p>	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>Open air windrow composting only with closed waste water system in place.</p> <p>We are satisfied that BATc 3 is not applicable to this installation.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<p>(b) average concentration and load values of relevant substances and their variability (e.g. COD/TOC, nitrogen species, phosphorus, metals, priority substances /micropollutants);</p> <p>(c) data on biodegradability (e.g. BOD, BOD to COD ratio, Zahn-Wellens test, biological inhibition potential (e.g. inhibition of activated sludge)) (see BAT 52);</p> <p>(iii) information about the characteristics of the waste gas streams, such as:</p> <p>(a) average values and variability of flow and temperature;</p> <p>(b) average concentration and load values of relevant substances and their variability (e.g. organic compounds, POPs such as PCBs);</p> <p>(c) flammability, lower and higher explosive limits, reactivity;</p> <p>(d) presence of other substances that may affect the waste gas treatment system or plant safety (e.g. oxygen, nitrogen, water vapour, dust).</p>		
4	<p>In order to reduce the environmental risk associated with the storage of waste, BAT is to use all of the techniques given below:</p> <p>(a) Optimised storage location;</p> <p>(b) Adequate storage capacity;</p> <p>(c) Safe storage operation;</p> <p>(d) Separate area for storage and handling of packaged hazardous waste.</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 4 in response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are compliant with BATc 4.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			<p>While supporting evidence was not supplied, our site compliance report indicates that that site operations are likely to be compliant with BAT.</p> <p>We are satisfied that the Installation will be future compliant with BATc 4. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>
5	<p>In order to reduce the environmental risk associated with the handling and transfer of waste, BAT is to set up and implement handling and transfer procedures.</p> <p>Handling and transfer procedures aim to ensure that wastes are safely handled and transferred to the respective storage or treatment. They include the following elements:</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 5 in response to the Regulation 61 Notice dated 27/05/2020.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<ul style="list-style-type: none"> <li>• handling and transfer of waste are carried out by competent staff;</li> <li>• handling and transfer of waste are duly documented, validated prior to execution and verified after execution;</li> <li>• measures are taken to prevent, detect and mitigate spills;</li> <li>• operation and design precautions are taken when mixing or blending wastes (e.g. vacuuming dusty/powdery wastes).</li> </ul> <p>Handling and transfer procedures are risk-based considering the likelihood of accidents and incidents and their environmental impact.</p>		<p>The operator's response states that they are compliant with the BATc 5 with handling activities detailed in the EMS.</p> <p>While supporting evidence was not supplied, our site compliance report indicates that that site operations are likely to be compliant with BAT.</p> <p>We are satisfied that the Installation will be future compliant with BATc 5. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>
6	<p>For relevant emissions to water as identified by the inventory of waste water streams (see BAT 3), BAT is to monitor key process parameters (e.g. waste water flow, pH, temperature, conductivity, BOD) at key locations (e.g. at the inlet and/or outlet of the pre-treatment, at the inlet to the final treatment, at the point where the emission leaves the installation).</p>	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>There are no permitted channelled emissions of process waters either direct or indirect to controlled waters.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			We are satisfied that BATc 6 is not applicable to this installation.
7	BAT is to monitor emissions to water with at least the frequency given in BATc 7, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>There are no permitted channelled emissions of process waters either direct or indirect to controlled waters.</p> <p>We are satisfied that BATc 7 is not applicable to this installation.</p>
8	BAT is to monitor channelled emissions to air with at least the frequency given in BATc 8, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>There are no channelled point source emissions to air.</p> <p>We are satisfied that BATc 8 is not applicable to this installation.</p>
10	<p>BAT is to periodically monitor odour emissions.</p> <p>Odour emissions can be monitored using:</p>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 10. We have assessed the information provided and reviewed the site compliance report and we</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<ul style="list-style-type: none"> <li>• EN standards (e.g. dynamic olfactometry according to EN 13725 in order to determine the odour concentration or EN 16841-1 or -2 in order to determine the odour exposure);</li> <li>• when applying alternative methods for which no EN standards are available (e.g. estimation of odour impact), ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.</li> </ul> <p>The monitoring frequency is determined in the odour management plan (see BAT 12).</p>		are satisfied that the operator has demonstrated compliance with BATc 10.
11	<p>BAT is to monitor the annual consumption of water, energy and raw materials as well as the annual generation of residues and waste water, with a frequency of at least once per year.</p> <p>Monitoring includes direct measurements, calculation or recording, e.g. using suitable meters or invoices. The monitoring is broken down at the most appropriate level (e.g. at process or plant/installation level) and considers any significant changes in the plant/installation.</p>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 11. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 11.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
12	<p>In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:</p> <ul style="list-style-type: none"> <li>• a protocol containing actions and timelines;</li> <li>• a protocol for conducting odour monitoring as set out in BAT 10;</li> <li>• a protocol for response to identified odour incidents, e.g. complaints;</li> <li>• an odour prevention and reduction programme designed to identify the source(s); to characterise the contributions of the sources; and to implement prevention and/or reduction measures.</li> </ul>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 12. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 12.</p> <p>EMS Appendix B – Approved Odour Management plan forms part of the ISO 14001 accredited EMS.</p>
13	<p>In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to use one or a combination of the techniques given below:</p> <p>(a) Minimising residence times;  (b) Using chemical treatment;  (c) Optimising aerobic treatment</p>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 13. We have assessed the information provided and reviewed the site compliance report we are satisfied that the operator has demonstrated compliance with BATc 13.</p>



BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			EMS Appendix B – Approved Odour Management plan forms part of the ISO 14001 accredited EMS.
14	<p>In order to prevent or, where that is not practicable, to reduce diffuse emissions to air, in particular of dust, organic compounds and odour, BAT is to use an appropriate combination of the techniques given below:</p> <ul style="list-style-type: none"> <li>(a) Minimising the number of potential diffuse emission sources;</li> <li>(b) Selection and use of high-integrity equipment;</li> <li>(c) Corrosion prevention;</li> <li>(d) Containment, collection and treatment of diffuse emissions;</li> <li>(e) Dampening;</li> <li>(f) Maintenance;</li> <li>(g) Cleaning of waste treatment and storage areas;</li> <li>(h) Leak detection and repair (LDAR) programme</li> </ul>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 14. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 14.</p> <p>EMS Section 7 and Appendix M- Dust Management Plan - dampening down of windrows and access routes, operation within bunded area, meteorological data, sampling and monitoring regime implemented if fugitive emissions arise.</p>
15	<p>BAT is to use flaring only for safety reasons or for non-routine operating conditions (e.g. start-ups, shutdowns) by using both of the techniques given below:</p>	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>There are no flares on site.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	(a) Correct plant design; (b) Plant management		We are satisfied that BATc 15 is not applicable to this installation.
16	In order to reduce emissions to air from flares when flaring is unavoidable, BAT is to use both of the techniques given below:  (a) Correct design of flaring devices; (b) Monitoring and recording as part of flare management	NA	<b><u>Environment Agency assessment</u></b> There are no flares on site. We are satisfied that BATc 16 is not applicable to this installation.
17	In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to set up, implement and regularly review a noise and vibration management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:  I. a protocol containing appropriate actions and timelines; II. a protocol for conducting noise and vibration monitoring; III. a protocol for response to identified noise and vibration events, e.g. complaints; IV. a noise and vibration reduction programme designed to identify the source(s), to measure /estimate noise and vibration exposure, to	NA	<b><u>Environment Agency assessment</u></b> We are satisfied that BATc 17 does not apply to the installation. The operator has confirmed that they are operating to BAT and EMS Noise management controls. The applicability of BATc 17 is restricted to cases where a noise or vibration nuisance at sensitive receptors is expected and/or has been substantiated. The permit condition 3.4 ensures that the operator submits a noise management plan in the event emissions of

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	characterise the contributions of the sources and to implement prevention and /or reduction measures.		noise and vibration are causing annoyance beyond the site boundary. The site does not generate noise complaints. Noise and vibration nuisance is not expected or has been substantiated at localised receptors and there has been no requirement for a dedicated noise management plan to date. See also BATc 18.
18	In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to use one or a combination of the techniques given below:  (a) Appropriate location of equipment and buildings; (b) Operational measures; (c) Low noise-equipment; (d) Noise and vibration equipment; (e) Noise attenuation	CC	<b><u>Environment Agency assessment</u></b>  The operator has provided information to support compliance with BATc 18. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 18.  The operator has confirmed that they are operating to BAT and EMS Noise management controls.  The site does not generate noise complaints.

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			Noise and vibration nuisance is not expected or has been substantiated at localised receptors and there has been no requirement for a dedicated noise management plan to date.
19	<p>In order to optimise water consumption, to reduce the volume of waste water generated and to prevent or, where that is not practicable, to reduce emissions to soil and water, BAT is to use an appropriate combination of the techniques given below:</p> <ul style="list-style-type: none"> <li>(a) Water management;</li> <li>(b) Water recirculation;</li> <li>(c) Impermeable surface;</li> <li>(d) Techniques to reduce the likelihood and impact of overflows and failures from tanks and vessels;</li> <li>(e) Roofing of waste storage and treatment areas;</li> <li>(f) Segregation of water streams</li> <li>(g) Adequate drainage infrastructure;</li> <li>(h) Design and maintenance provisions to allow detection and repair of leaks</li> <li>(i) Appropriate buffer storage capacity</li> </ul>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 19 in response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are compliant with BATc 19. Water is harvested on site, and that there are no discharges off site or to ground (operation takes place on impermeable pavement).</p> <p>We are satisfied that the Installation will be future compliant with BATc 19. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p>

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			The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.
20	<p>In order to reduce emissions to water, BAT is to treat waste water using an appropriate combination of the techniques given below:</p> <p><b>Preliminary and primary treatment, e.g.</b></p> <ul style="list-style-type: none"> <li>(a) Equalisation</li> <li>(b) Neutralisation</li> <li>(c) Physical separation, e.g. screens, sieves, grit separators, grease separators, oil-water separation or primary settlement tanks</li> </ul> <p><b>Physico-chemical treatment, e.g.</b></p> <ul style="list-style-type: none"> <li>(d) Adsorption</li> <li>(e) Distillation /rectification</li> <li>(f) Precipitation</li> <li>(g) Chemical oxidation</li> <li>(h) Chemical reduction</li> <li>(i) Evaporation</li> <li>(j) Ion exchange</li> </ul>	CC	<p><b>Environment Agency assessment</b></p> <p>The operator has provided information to support compliance with BATc 20. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 20.</p> <p>The operator has confirmed that they are operating to BAT.</p> <p>Surface water is directed into an underground tank. When the tank is full, the leachate is recirculated onto the windrows in the early phase of sanitisation or where appropriate tankered off site for disposal at a licensed facility. A system is also in place to process the liquor through a Reverse Osmosis</p>

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	<p>(k) Stripping</p> <p><b>Biological treatment, e.g.</b>            (l) Activated sludge process            (m) Membrane bioreactor            (n) Nitrification / denitrification when the treatment includes a biological treatment</p> <p><b>Solids removal, e.g.</b>            (o) Coagulation and flocculation            (p) Sedimentation            (q) Filtration (e.g. sand filtration, microfiltration, ultrafiltration)            (r) Flotation</p> <p>See also:            Table 6.1: BAT-associated emission levels (BAT-AELs) for direct discharges to a receiving water body</p> <p>See also:            Table 6.2: BAT-associated emission levels (BAT-AELs) for indirect discharges to a receiving water body</p>		<p>treatment plant thereby allowing re-use of the water.</p> <p>There are no process waste wasters emitted directly or indirectly to controlled waters.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
21	<p>In order to prevent or limit the environmental consequences of accidents and incidents, BAT is to use all of the techniques given below, as part of the accident management plan (see BAT 1):</p> <p>(a) Protection measures;  (b) Management of incidental /accidental emissions;  (c) Incident /accident registration and assessment system</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 21 in response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are operating to BAT, working to EMS/accident management plan.</p> <p>While supporting evidence was not supplied, our site compliance report indicates that site operations are likely to be compliant with BAT.</p> <p>We are satisfied that the Installation will be future compliant with BATc 21. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
22	<p>In order to use materials efficiently, BAT is to substitute materials with waste.</p> <p>Waste is used instead of other materials for the treatment of wastes (e.g. waste alkalis or waste acids are used for pH adjustment, fly ashes are used as binders).</p>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 22. We have assessed the information provided and reviewed the site compliance report and we are satisfied that the operator has demonstrated compliance with BATc 22.</p>
23	<p>In order to use energy efficiently, BAT is to use both of the techniques given below:</p> <p>(a) Energy efficiency plan; (b) Energy balance record</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 23 in response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are operating to BAT and have solar panels in place to reduce use of mains power.</p> <p>We are satisfied that the Installation will be future compliant with BATc 23. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p>



BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.
24	<p>In order to reduce the quantity of waste sent for disposal, BAT is to maximise the reuse of packaging, as part of the residues management plan (see BAT 1).</p> <p>Packaging (drums, containers, IBCs, pallets, etc.) is reused for containing waste, when it is in good condition and sufficiently clean, depending on a compatibility check between the substances contained (in consecutive uses). If necessary, packaging is sent for appropriate treatment prior to reuse (e.g. reconditioning, cleaning).</p>	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>Primarily green waste from garden bins received therefore little packaging is used in the operation.</p> <p>We are satisfied that BATc 24 is not applicable to this installation.</p>
33	<p>In order to reduce odour emissions and to improve the overall environmental performance, BAT is to select the waste input.</p> <p>The technique consists of carrying out the pre-acceptance, acceptance and sorting of the waste input (see BAT 2) so as to ensure the suitability of the waste</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator did not provide any information to support compliance with BATc 33 in</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	input for the waste treatment, e.g. in terms of nutrient balance, moisture or toxic compounds which may reduce the biological activity.		<p>response to the Regulation 61 Notice dated 27/05/2020.</p> <p>The operator's response states that they are compliant with the BATc 33, operating to BAT, EMS and waste acceptance procedures.</p> <p>The operator's response makes reference to the waste types accepted under the existing permit. The operator has not identified why those wastes are suitable in relation to the requirements of the BATc. In relation to BATc 2, there is no evidence of effective pre-acceptance procedures or feedstock parameters to demonstrate the appropriateness of incoming wastes.</p> <p>While supporting evidence was not supplied, our site compliance report indicates that site operations are likely to be compliant with BAT. Therefore, we consider that the operator will be future compliant with BATc 33.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			<p>Improvement condition IC2 has been included in the permit to achieve compliance (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>
34	<p>In order to reduce channelled emissions to air of dust, organic compounds and odorous compounds, including H<sub>2</sub>S and NH<sub>3</sub>, BAT is to use one or a combination of the techniques given below:</p> <p>(a) Adsorption;  (b) Biofilter;  (c) Fabric filter;  (d) Thermal oxidation;  (e) Wet scrubbing</p> <p>See also:</p>	<p>N/A</p> <p>BATc 34, Table 6.7</p> <p>N/A</p>	<p><b><u>Environment Agency assessment</u></b></p> <p>There are no channelled emissions to air. We are satisfied that BATc 34 does not apply to the installation.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	Table 6.7: BAT-associated emission levels (BAT-AELs) for channelled NH <sub>3</sub> , odour, dust and TVOC emissions to air from the biological treatment of waste.		
35	<p>In order to reduce the generation of waste water and to reduce water usage, BAT is to use all of the techniques given below:</p> <p>(a) Segregation of water streams;  (b) Water recirculation;  (c) Minimisation of the generation of leachate</p>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 35. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 35.</p> <p>All surface waters are contained on site and stored for re-circulation to the composting system or fire water storage.</p>
36	<p>In order to reduce emissions to air and to improve the overall environmental performance, BAT is to monitor and/or control the key waste and process parameters.</p> <p>Monitoring and/or control of key waste and process parameters, including:</p> <ul style="list-style-type: none"> <li>• waste input characteristics (e.g. C to N ratio, particle size);</li> <li>• temperature and moisture content at different points in the windrow;</li> </ul>	CC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator has provided information to support compliance with BATc 36. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 36.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<ul style="list-style-type: none"> <li>aeration of the windrow (e.g. via the windrow turning frequency, O<sub>2</sub> and/or CO<sub>2</sub> concentration in the windrow, temperature of air streams in the case of forced aeration);</li> <li>windrow porosity, height and width.</li> </ul>		<p>The operator's response states that they are compliant with the BATc 36.</p> <p>Compost quality management system in place referring to critical limits and monitoring. This was audited in 2019 by the Environment Agency.</p>
37	<p>In order to reduce diffuse emissions to air of dust, odour and bioaerosols from open-air treatment steps, BAT is to use one or both of the techniques given below:</p> <p>(a) Use of semi permeable membrane covers;  (b) Adaptation of operations to the meteorological conditions</p>	FC	<p><b><u>Environment Agency assessment</u></b></p> <p>The operator provided limited information to support compliance with BATc 37. We have assessed the information provided and reviewed the site compliance report. We are not satisfied that the operator has demonstrated compliance with BATc 37.</p> <p>The operator states that they are operating to BAT, dust and odour management plans and bioaerosol monitoring is undertaken in accordance with the permit and M9 Guidance by External Consultancy.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			<p>No semi-permeable membranes are used and the operator did not submit any evidence to demonstrate adaption of operations to meteorological conditions.</p> <p>We are satisfied that the Installation will be future compliant with BATc 37. Improvement condition IC2 is incorporated into the permit (see Annex 3).</p> <p>The operator is required to complete the improvement condition and demonstrate compliance with the Waste Treatment BREF and BAT Conclusions by the compliance date, 17 August 2022.</p>
38	<p>In order to reduce emissions to air and to improve the overall environmental performance, BAT is to monitor and/or control the key waste and process parameters.</p> <p>This includes monitoring and/or control of key waste and process parameters:</p> <ul style="list-style-type: none"> <li>• pH and alkalinity of the digester feed;</li> <li>• digester operating temperature;</li> </ul>	NA	<p><b><u>Environment Agency assessment</u></b></p> <p>We are satisfied that BATc 38 does not apply to the installation.</p>

BAT Conclusion No	Summary of BAT Conclusion requirement for Waste Treatment	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<ul style="list-style-type: none"> <li>• hydraulic and organic loading rates of the digester feed;</li> <li>• concentration of volatile fatty acids (VFA) and ammonia within the digester and digestate;</li> <li>• biogas quantity, composition (e.g. H<sub>2</sub>S) and pressure;</li> <li>• liquid and foam levels in the digester.</li> </ul>		
39	<p>In order to reduce emissions to air, BAT is to use both of the techniques given below:</p> <p>(a) Segregation of the waste gas streams;</p> <p>(b) Recirculation of waste gas</p>	<b>N/A</b>	<p><b><u>Environment Agency assessment</u></b></p> <p>We are satisfied that BATc 39 does not apply to the installation.</p>

## **Annex 2: Review and assessment of changes that are not part of the BAT Conclusions derived permit review**

### **Existing Medium Combustion Plant**

We asked the Operator to provide information on all combustion plant on site in the Regulation 61 Notice as follows:

- Number of combustion plant (CHP engines, back-up generators, boilers);
- Size of combustion plant – rated thermal input (MWth)
- Date each combustion plant came into operation
- Confirmation as to whether or not the combustion plant is subject to a capacity market agreement (2014 or 2015 auction) or whether or not a Feed-in Tariff preliminary accreditation application was received prior to 1 December 2016.

There are no combustion plant at the site.

### **Bioaerosols monitoring requirements**

We asked the Operator to confirm the following aspects regarding the site operations in the Regulation 61 Notice:

- Whether or not the operational processes of biodegradable waste are in open processes within 250 metres of human receptors.
- Whether or not there is a channelled or point source release within 250 metres that are open sources e.g. biofilters within 250 metres of human receptors; and
- The existing permit contains bioaerosols monitoring requirements, the microbiological markers, associated bioaerosols limits and the monitoring standards

The Operator provided information regarding bioaerosols monitoring in their response to the Regulation 61 Notice. We carried out an assessment of the site location and the distance of site processes from sensitive receptors as part of this determination.

There are external site operational processes within 250 metres of a sensitive receptor.

We consider it appropriate to insert the bioaerosols monitoring requirements in the permit in accordance with our guidance TGN M9 Environmental monitoring of bioaerosols at regulated facilities (version 2, July 2018). The Operator is required to comply with the new monitoring requirements from the date of permit issue.



### **Soil & groundwater risk assessment (baseline report)**

The IED requires that the operator of any IED installation using, producing or releasing “relevant hazardous substances” (RHS) shall, having regarded the possibility that they might cause pollution of soil and groundwater, submit a “baseline report” with its permit application. The baseline report is an important reference document in the assessment of contamination that might arise during the operational lifetime of the regulated facility and at cessation of activities. It must enable a quantified comparison to be made between the baseline and the state of the site at surrender.

At the definitive cessation of activities, the Operator has to satisfy us that the necessary measures have been taken so that the site ceases to pose a risk to soil or groundwater, taking into account both the baseline conditions and the site’s current or approved future use. To do this, the Operator has to submit a surrender application to us, which we will not grant unless and until we are satisfied that these requirements have been met.

The Operator submitted a qualitative site condition report ‘Site Condition Report dated: 04/03/2009’ together with the original application which was received by the Environment Agency on 10/03/2009, this predated the Industrial Emissions Directive (IED) and changes introduced by the EPR. The report included a description of the condition of the site and a consideration of the possibility of soil and groundwater contamination at the facility. No site baseline condition was included in the submission.

We have reviewed that report and we consider that that it adequately describes the condition of the soil and groundwater. Consequently, we are satisfied that the baseline condition has not changed.

The Operator has accepted ‘zero contamination’ beneath the site. This means that when the Operator applies to surrender the Permit, any contamination by substances used at, produced or released from the facility would be considered to have resulted from the operation of the installation. This is in accordance with the Environment Agency Guidance H5 – Site Condition Report.

### **Waste types**

We have specified the permitted waste types, descriptions and quantities, which can be accepted at the regulated facility. The wastes are specified in Table S2.2 in the permit.

We are satisfied that the Operator can accept these wastes for the following reasons:

- they are suitable for the proposed activities
- the proposed infrastructure is appropriate
- the environmental risk assessment is acceptable.

### **Other wastes (non-standard waste codes)**

The following wastes in the current permit are not specified in the our revised biowaste treatment permit templates. We have retained these wastes in the current permit provided the Operator undertakes a detailed characterisation of the wastes prior to acceptance for treatment at the site in accordance with BATc 2a.

Waste code	Description
04 02 10	organic matter from natural products (un-dyed and untreated only)
17 02 01	Wood (untreated)
19 08 05	sludges from treatment of urban waste water
19 12 07	wood other than that mentioned in 19 12 06
03 03 02	green liquor sludge
20 01 38	wood other than that mentioned in 20 01 37

We consider that the Operator will be future compliant with BATc 2a. Improvement condition 2 has been included in the permit to achieve compliance (see Annex 3).

We made this decision with respect to waste types in accordance with the Framework Guidance Note – *Framework for assessing suitability of wastes going to anaerobic digestion, composting and biological treatment* (July 2013).

### **Secondary containment and lagoon storage infrastructure design**

We asked the Operator via the Regulation 61 Notice to:

- describe any secondary containment and whether it currently meets the relevant standard in the “Containment systems for the prevention of pollution (C736)” report, where there are above-ground storage or primary containment on site; or
- explain why the current site infrastructure design and construction is fit for purpose, where it is concluded that secondary containment is not required or does not need to meet the standards in the C736 report, to enable a baseline standard so as to establish a quantified comparison; and
- describe how the construction of the lagoons meets the relevant standard in CIRIA C736 report, where there are storage lagoons used for the storage of digestate on site.

The Operator did not provide a response to the Regulation 61 Notice with respect to the existing site secondary containment. There are no storage lagoons on site.

We have set improvement conditions in the permit to address the deficiencies in the existing site secondary containment (IC4). See Improvement conditions in Annex 3 of this decision document.

### **Primary containment infrastructure design (tanks /vessels used for storage and/or treatment activities)**

We assessed primary containment as part of the permit review. This information was not requested in the Regulation 61 Notice issued to the Operator, however, it was considered prudent to address this aspect as part of the permit review process. In this instance, the required information relating to the review of primary containment infrastructure against CIRIA C736 was not previously submitted to the Environment Agency, nor was it included in the supporting documentation submitted by the Operator in their Regulation 61 response.

We have therefore set an Improvement Condition (IC3) in the permit to address this aspect of the permit review (see Annex 3).

## Annex 3: Improvement Conditions

Based on the information in the Operator's Regulation 61 Notice response and our own records of the capability and performance of the installation at this site, we consider that we need to set improvement conditions so that the outcome of the techniques detailed in the BAT Conclusions are achieved by the installation. These improvement conditions are set out below - justifications for them is provided at the relevant section of the decision document (Annex 1 or Annex 2).

If the consolidated permit contains existing improvement conditions that are not yet complete or the opportunity has been taken to delete completed improvement conditions then the numbering in the table below will not be consecutive as these are only the improvement conditions arising from this permit variation.

Improvement programme requirements		
Reference	Requirement	Date
<b>Improvement condition for progress report to achieve Narrative BAT</b>		
IC2	<p>The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 17 August 2022. The report shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> <li>1) Methodology for achieving BAT</li> <li>2) Associated targets /timelines for reaching compliance by 17 August 2022</li> <li>3) Any alterations to the initial plan (in progress reports).</li> </ol> <p>The report shall address the BAT Conclusions for Waste Treatment with respect to BAT 2, 4, 5, 10, 11, 19, 21, 23, 33 and 37.</p>	<p>Progress reports at three monthly intervals from date of permit issue:</p> <p>DD/MM/2021</p> <p>DD/MM/2022</p> <p>DD/MM/2022</p>
<b>Improvement condition for primary containment</b>		
IC3	<p>The operator shall submit a written 'primary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of a review conducted, by a competent person, and shall compare the design specification of primary containment systems where all polluting liquids and solids are being stored, treated, and/or handled against the design standards within CIRIA C535 guidance or equivalent.</p> <p>The review shall include:</p> <ul style="list-style-type: none"> <li>• physical condition of all primary containment systems (storage and treatment vessels);</li> <li>• the suitability for providing primary containment when subjected to the dynamic and static loads caused by the vessels' contents;</li> <li>• any work required to ensure compliance with the standards set out in CIRIA C535 or equivalent; and</li> </ul>	<p>DD/MM/YYYY or other date as agreed in writing with the Environment Agency</p>

<b>Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	<ul style="list-style-type: none"> <li>a preventative maintenance and inspection regime</li> </ul> <p>The plan must contain dates for the implementation of individual improvement measures necessary for the primary containment to adhere to the standards detailed/referenced within CIRIA C535 guidance, or equivalent.</p> <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	
<b>Improvement condition for secondary containment design</b>		
IC4	<p>The operator shall submit a written 'secondary and tertiary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of a review conducted, by a competent person, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of secondary and tertiary containment systems where all polluting liquids and solids are being stored, treated, and/or handled.</p> <p>The review shall consider, but not limited to, the storage vessels, bunds, loading and unloading areas, transfer pipework/pumps, temporary storage areas, and liners underlying the site.</p> <p>The plan must contain dates for the implementation of individual improvement measures necessary for the secondary and tertiary containment systems to adhere to the standards detailed/referenced within CIRIA C736 (2014) guidance, or equivalent.</p> <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	DD/MM/YYYY or other date as agreed in writing with the Environment Agency