Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Blue Phoenix Limited

Ferrybridge IBA Recycling Facility
Kirkhall Lane
Knottingley
West Yorkshire
WF11 8AF

Variation application number

EPR/QP3034JW/V006

Permit number

EPR/QP3034JW

Ferrybridge IBA Recycling Facility
Permit number EPR/QP3034JW

Introductory note

This introductory note does not form a part of the notice

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

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

Changes introduced by this variation notice:

- Increase in the Incinerator Bottom Ash (IBA) processing capacity of the site from 320,000 tonnes to 420,000 tonnes per year.
    - The storage capacity has already been increased to 420,000 tonnes as part of the permit review EPR/QP3034JW/V004.
- Extension of the processing building to allow for more processing equipment to facilitate the proposed increase in processing capacity, resulting in an improvement in quality of the Incinerator Bottom Ash Aggregate (IBAA) product.
    - The new processing equipment will be of a similar type and scale as currently installed and permitted.
- Relocation of the water storage tanks and some of the IBA processing storage bays to accommodate the extension of the processing building.
    - The water storage tanks will move further south and some of the storage bays will move further east of the IBA processing building.

The operator is not proposing to change how the IBA is processed at the Facility. The proposed extension to the IBA processing building will allow additional equipment to be installed. The processing equipment will be of a similar type and scale as currently installed and permitted. The increase in the amount of processing equipment will allow the processed IBA to be separated into four differently sized fractions at an increased processing speed. The separated fractions will then be extracted of non-ferrous and ferrous metals. The current process utilises existing eddy current separators to separate out non-ferrous metals. Additional eddy current separators will be installed within the building extension. This will enable both an increase in the extraction speed and recovery rate of non-ferrous metals, consequently increasing the quality of the IBAA.

In addition, virgin aggregate will be blended into the IBAA to produce IBAA products. This is already undertaken on site as part of the existing operations.

To accommodate for the building extension, the water storage tanks will move further south and some of the storage bays will move further east of the IBA processing building.

There are no emissions to sewer from the Facility. The proposed variation will not result in any changes to the volume or composition of the effluent discharged to water. The existing surface water management arrangements for the existing land within the installation boundary will be retained and will continue to manage run-off from these areas.

The main features of the permit are as follows:

The environmental permit allows the operation of an Incinerator Bottom Ash recovery facility under Section 5.4 A(1) (b) (iii) of the Environmental Permitting Regulations 2016 - Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.

The installation accepts and treats IBA to recover ferrous and non-ferrous metal and to produce an IBAA. The facility is permitted to accept up to 420,000 tonnes of IBA per year.

Site activities are as follows:

- Storage of IBA waste prior to treatment
- Treatment of IBA waste
- Storage of recovered IBAA and residual waste after treatment
- Blending of IBAA fractions with virgin/primary aggregate
- Collection of uncontaminated surface water in tanks
- Collection and storage of contaminated water in a lagoon for re-use on site or discharge to surface water

The unprocessed IBA is imported to the site and stored outside for three to six weeks, during which time it goes through an 'ageing' process prior to being processed.

The treatment process involves removal of ferrous and non-ferrous metals, and screening of the IBA to produce different sized fractions of processed IBAA which are then stored in external storage bays. The IBAA fractions are blended to produce an IBAA which meets the relevant standard for the end-use. The treatment and storage areas are impermeable with a sealed drainage system.

The matured IBA is processed within an enclosed, purpose-built building. IBA is loaded into the processing plant via the use of a front loader digger which feeds IBA into the processing hopper. The IBA is then processed through vibrating screens and magnetic metal separation which removes the ferrous and non-ferrous metals and produces different sized fractions of IBAA. The resultant processed IBAA fractions are then conveyed to the storage bays. The IBAA fractions are then blended together with primary and virgin aggregates to produce an IBAA which meets the relevant standard for the end-use as specified by the customer. The finished IBAA is stored outside for up to 30 weeks as it undergoes another 'ageing' process. Ferrous and non-ferrous metals are sent for recycling at an appropriate facility. All treatment and storage areas are on impermeable surfaces with a sealed drainage system.

There are no point source emissions to air from the installation. A water-based suppression system is used to minimise fugitive dust emissions. The permit incorporates a Fugitive Emissions Risk Assessment and Management Plan which details further control of dust.

Waste water runoff is directed to catchpits to remove settled solids and then on to an attenuation lagoon. Collected rainwater from the lagoon will be re-used onsite for dust suppression, unless the lagoon is at capacity. At this point excess runoff will be discharged to Fryston Beck. The discharge from the lagoon will be rainfall dependant and is only expected to discharge water during wet conditions to maintain the lagoon at a controlled capacity. There is no connection to foul sewer.

To the South and Southwest of the site are Ferrybridge Power Station and substation. To the West is a major trunk road, the A1M and a golf course. There is a flood plain and a plantation to the north and an industrial unit to the east. Fairburn and Newton Ings SSSI is 1.6 km away from the site. The nearest residential receptors are 240 metres away and are on the other side of the A1(M) road.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/QP3034JW/A001	Duly made 18/05/2018	Application for IBA recycling facility.
Additional information received Application EPR/QP3034JW/A001	05/09/2018	Updated site plan and site drainage plans received.
Permit determined EPR/QP3034JW	17/09/2018	Permit issued to Blue Phoenix Limited.

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/QP3034JW/V003 Notified of change of Company Name and Site Postcode	26/01/2020	Company name changed to Blue Phoenix Limited.
EPR/QP3034JW/S002	30/01/2020	Basic pre-application enquiry.
Variation issued EPR/QP3034JW	06/02/2020	Varied permit issued to Blue Phoenix Limited.
Environment Agency Non-hazardous Waste Sector Review Variation Number EPR/QP3034JW/V004 (variation and consolidation)	13/07/2024	Regulation 61 Notice requiring information for Statutory review of the permit against Waste Incineration BAT Conclusions published 12 December 2019 - documents received in response to the Regulation 61 Notice dated 14/04/23.
Application EPR/QP3034JW/V005 (variation)	14/10/2024	Application returned.
Regulation 61 response to request for further information	06/01/2025	Documents provided by email received in response to the Regulation 61 Notice dated 21/11/24.
Variation issued EPR/QP3034JW	26/02/2025	Varied and consolidated permit issued in modern format.
Application EPR/QP3034JW/V006 (variation)	Duly Made 23/04/2025	Variation to increase the annual tonnage to 420,000 tonnes, extend the processing building; and relocate the water tank and some storage bays.
Response to Schedule 5 Notice dated 10/10/2025	13/11/2025	Response to questions 1, 2 and 3 detailing Competence Management Certificate, Occupational Health and Safety Management System and Dust Management Plan.
Response to Schedule 5 Notice dated 19/12/2025	03/02/2026	Response to questions 1 to 9 detailing Dust Management Plan.
Variation issued EPR/QP3034JW	26/03/2026	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/QP3034JW

Issued to

Blue Phoenix Limited ("the operator")

whose registered office is

1 Victoria Stables
Essex Way
Bourne
Lincolnshire
PE10 9ZJ

company registration number **03290431**

to operate a regulated facility at

Ferrybridge IBA Recycling Facility
Kirkhall Lane
Knottingley
West Yorkshire
WF11 8AF

to the extent set out in the schedules.

The notice shall take effect from 26/03/2026.

Name	Date
Jack Robinson, Principal Permitting Team Leader	**26/03/2026**

Authorised on behalf of the Environment Agency

Schedule 1

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

- Table S1.2 as referenced in Conditions 2.3.1 and 2.3.2 has been amended to incorporate operating technique documents submitted with this variation application (V006).

- Table S1.3 as referenced in Condition 2.4.1 has been amended to add new improvement conditions in this variation application (V006).

- Table S3.1 as referenced in Conditions 3.1.1 (a) and 3.5.1 has been amended to reference the up-to-date discharge point to Fryston Beck Drawing.

- Table S3.2 as referenced in Conditions 3.6.1 (b) and 3.6.4 has been amended to reference the proposed site layout plan storage capacities.

- Table S4.4 as referenced in Condition 4.2.2 (c) and 4.2.3 (b) has been amended to include the ambient air monitoring reporting form.

- Schedule 7 as referenced in condition 2.2.1 has been amended to include the updated site layout plan submitted in this variation application (V006).

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/QP3034JW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QP3034JW/V006 authorising,

Blue Phoenix Limited ("the operator"),

whose registered office is

1 Victoria Stables
Essex Way
Bourne
Lincolnshire
PE10 9ZJ

company registration number **03290431**

to operate an installation at

Ferrybridge IBA Recycling Facility
Kirkhall Lane
Knottingley
West Yorkshire
WF11 8AF

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

Name	Date
Jack Robinson, Principal Permitting Team Leader	**26/03/2026**

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities;

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1, table S1.1 (the "activities").

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2, table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2, table S2.2; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, table S3.1.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

(b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any

approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in table S3.1;

(b) process monitoring specified in table S3.2; and

(c) ambient air monitoring specified in table S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3, table S3.1 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production/treatment data set out in schedule 4, table S4.2; and

(c) the performance parameters set out in schedule 4, table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 4, table S4.1;

(b) for the reporting periods specified in schedule 4, table S4.1 and using the forms specified in schedule 4, table S4.4; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

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

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

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	S5.4 A(1) (b) (iii) Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials.	From receipt of permitted waste IBA through to treatment. Treatment of IBA in an enclosed building using a combination of crushing, separation and screening. Treatment shall take place on an impermeable surface with sealed drainage. There shall be no channelled emissions to air and or indirect discharges to sewer from this activity. Waste types as specified in table S2.2.
	Directly Associated Activity		
AR2	N/A	Storage of IBA prior to treatment R13: Storage of waste pending the operations numbered R1, R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced).	From receipt of waste to transfer to treatment process. Storage shall take place on impermeable surface with sealed drainage system. The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metal stored at any one time is limited to 431,376 tonnes. No waste shall be stored for more than 12 months. Waste types as specified in Table S2.2.
AR3	N/A	Storage of wastes recovered from the IBA treatment processes R13: Storage of waste pending the operations numbered R1, R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced	From recovery of waste to despatch off-site for use. Storage of processed IBAA, ferrous and non-ferrous metals after treatment. The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metal stored at any one time is limited to 431,376 tonnes. No waste shall be stored for more than 12 months. Storage shall take place on an impermeable surface with a sealed drainage system.
AR4	N/A	Uncontaminated surface water	From the collection of uncontaminated water in tanks for reuse on site
AR5	N/A	Collection and storage of contaminated surface water	From the collection of contaminated water produced at

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			the facility to storage in the lagoon prior to re-use within the facility or discharge to surface water
AR6	N/A	Blending of IBAA fractions with virgin/primary aggregates	Treatment consisting of blending of IBAA fractions with virgin/primary aggregates only. There shall be no channelled emissions to air from this activity. Treatment shall take place on an impermeable surface with sealed drainage.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/QP3034JW/A001	Part B2 and B3 of the application and all supporting documents, including: Fugitive Emissions Risk Assessment and Management Plan (January 2018, V1) Lagoon Monitoring Plan (March 2018)	Duly Made 18/05/2018
Additional information Application EPR/QP3034JW/A001	Site drainage plans: Proposed Pump Main Route (ref: P17035-01-23B) Proposed Drainage Plan Option 1 (ref:P17035-01-20C)	05/09/2018
Response to regulation 61 notice EPR/ QP3034JW/V004 dated 14/04/2023	Documents titled: ▪ "*BPUK Ferrybridge 220220 BATC returns Spreadsheet V1.5"* ▪ "FB_Process_Flow_Diagram" ▪ "Site Plan with discharge point" ▪ "BPL QMS P002 Storage and Handling of IBA-IBAA ▪ "BPL EMS P005 Waste acceptance Criteria ▪ "BPL HMS P007 V3 Feb 23 Planned Preventative Maintenance	13/07/2023
Response to regulation 61 notice received in response to the Request for Further Information (RFI) dated 21/11/2024	Response by email to questions 1-4 containing: ▪ Site Plan with discharge point for water. ▪ Dust monitoring locations. ▪ Identification of areas on site where blending of IBA takes place. ▪ Maximum storage of waste at anyone point in time with justification.	06/01/2025
Application EPR/QP3034JW/V006 (variation)	All supporting documents including: • Non-Technical Summary (incl. BAT Assessment, Appropriate Measures). • Environmental Risk Assessment.	Duly Made 23/04/2025
Response to Schedule 5 notice dated 10/10/2025	Response to questions 1, 2 and 4 containing the following documents: • UF00050-0330-0001ACM Schedule 5 Response R1.	13/11/2025

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
	• CMSS - 617636 - Expiry 2027.04.07. • OHS 45001 - 724866 - Expiry 2027.02.25. • P24072-SMCE-ZZ-XX-DR-C-0211-P02-PROPOSED SITE LAYOUT. • UF00050-8310-0004AO1 Potential Sources of Dust R1.0. • UF00050-8310-0005AO1 Sensitive Receptor Locations R1.0. • UF00050-8310-0006AO1 Dust Monitoring Locations R1.0. • UF00050-8310-0007AO1 Dust Suppression System R2.0. • BPL EMS F010 v3 Jan 20 Daily Environmental Check.	
Response to Schedule 5 notice dated 19/12/2025	Response to questions 1 to 9 containing the following documents: • UF00050-0100-0001ACM Dust Management Plan_R2. • UF00050-0330-0002ACM Schedule 5 Response No2_R1 (including reference to extraction system, vents, and filters). • BPL EMS P005 v9 Aug 25 Waste Acceptance Criteria. • BPL QMS P002 v9 Aug 24 Storage and Handling of IBA-IBAA (3). • Dust Potential Arising from IBA.	03/02/2026
Additional information	Operator proposal to install continuous dust monitors (Turnkey iPM Particle Monitors) along the site boundary, including on the site boundary fence behind the retaining wall.	24/02/2026

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall carry out a detailed review of the existing waste treatment, storage and handling equipment at the site to ensure that they are in accordance with the requirements specified in the Non-hazardous and inert waste: appropriate measures for permitted facilities guidance and BAT 24 of the Waste Incineration BAT Conclusions. This review shall include but not be limited to an assessment of: • Operation of the front load hopper • Blending of IBAA with other aggregates • Discharge height of conveyors. • Of the optimum moisture range.	Complete

IC2	Following the review required under IC1, the operator shall submit an updated Dust Management Plan to the Environment Agency for approval. The revised plan shall include any recommendation for improvements identified under IC1 including those relating to: • The operation of the front hopper, potential enclosure and additional dust control measures • Blending of IBAA with other aggregates • Optimum moisture management. The dust management plan shall also provide details of the moisture monitoring method and frequency for the monitoring of IBA and IBAA stockpiles. The monitoring methods may include for example, the use of moisture probes or dry/wet analysis or any other alternative methods that are suitable for establishing the optimum moisture range for effective dust emission control. The plan shall take into account the appropriate measures for dust control specified in the Non-hazardous and inert waste: appropriate measures for permitted facilities guidance and Control and monitor emissions for your environmental permit, which may include but not limited to, installation of new infrastructure together with timescales for implementation of any identified improvements. Once the DMP is approved by the Environment Agency, the operator shall carry out site operations in accordance with the approved DMP, and any subsequent revisions agreed in writing by the Environment Agency.	Complete
IC3a	The operator shall undertake a review of the site surfacing and drainage systems for all areas where waste storage and treatment is taking place. The review shall ascertain the state, design and construction standard of impermeable surfaces and sealed drainage systems on site to confirm that they are in line with, or equivalent to the standards required in CIRIA Report C736. The report of the review shall be certified by a suitably qualified engineer and submitted to the Environment Agency for approval together with details of any improvements	Complete
IC3b	Following the completion IC3a, the operator shall implement the improvement measures by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency. The improvements may include, but are not limited to, the installation of impermeable surface, sealed drainage and containment systems	26/08/2026
IC4	The operator shall submit a proposal to the Environment Agency for approval, clearly setting out how they will obtain representative PM_{10} and $PM_{2.5}$ monitoring data from the permitted activities on the site. The proposals must contain: • Details of the monitoring system being used, monitoring location(s), duration, how and who will operate it, in accordance with Environment Agency guidance document "Monitoring Guides: Air"; • Details of continuous optical monitoring arrangements using indicative MCERTs equipment;	27/06/2026

	• Details of a clear success/failure criteria (We would recommend 75 mg/m^3 over a 5-minute average and UK Air Quality Standards); and • Details of what steps will be taken if the monitoring shows the site fails to demonstrate successful compliance with the success criteria.	
IC5	Following the approval of IC4, the operator will undertake the monitoring and provide a written report that includes: • Analysis of the results and comparisons with the success/failure criteria and UK Air Quality Standards; • If appropriate, details of what steps the operator will now take to reduce the PM_{10} and $PM_{2.5}$ emissions from the site provided in the form of an updated Dust and Emissions Management Plan; and • Proposals to continue or cease the monitoring going forward	27/03/2027

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
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Table S2.2 Permitted waste types and quantities for incinerator bottom ash treatment facility	
Maximum quantity	**420,000 tonnes per year**
Waste code	**Description**
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 12	residual IBA received back for recovery

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 – discharge to Fryston Beck (W1 on drawing reference 00050-8310-0001 R2.0)	Waste water from bottom ash treatment via attenuation lagoon	Flow	Maximum rate of discharge 8.13 litres per second	Instantaneous (spot sample)	Continuous during discharge	MCERTS self-monitoring of effluent flow scheme
		Total organic carbon (TOC)	40 mg/l	Flow proportional composite sample over discharge duration, or spot sample if the discharge is mixed and homogeneous	Monthly or otherwise bi-annually if agreed in writing by the Environment Agency	EN 1484
		Total suspended solids	30 mg/l			BS EN 872
		Lead	0.06 mg/l			EN ISO 11885, EN ISO 17294-2 or EN ISO 15586
		Ammonium – nitrogen (NH_4-N)	30 mg/l			EN ISO 11732 or EN ISO 14911
		Chloride (Cl^-)	No limit set			EN ISO 10304-1 or EN ISO 15682
		Sulphate (SO_4^{2-})	1,000 mg/l			EN ISO 10304-1
		Dioxins/Furans (I-TEQ)	No limit set		Bi-annually	BS ISO 18073
		pH	6 to 9		Monthly or otherwise bi-annually if agreed in writing by the Environment Agency	BS ISO 10523
		Visible oil or grease	No visible oil or grease			Visual examination

Table S3.2 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
At the IBA and IBAA waste stockpiles shown on the site layout plan "00050-8310-0002 R3.0"	Moisture content	As agreed under the dust emissions management plan.	As agreed under the dust emissions management plan.	
W1 - Waste water from bottom ash treatment	Flow	Continuous during discharge	MCERTS self-monitoring of effluent flow scheme	
	pH	Flow proportional composite sample over discharge duration, or spot sample if the discharge is mixed	BS ISO 10523	-
	Conductivity	Flow proportional composite sample over discharge duration, or spot sample if the discharge is mixed	EN 27888	-

Table S3.3 Ambient air monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
At the monitoring locations identified under Request for Information response dated 06/01/2025 question 3: Dust monitoring locations	Deposited dust	Monthly	Monitoring emissions to air, land and water (MCERTS) - GOV.UK (Technical Guidance notes for ambient air monitoring).	Monitoring methods, trigger levels and actions as specified in approved dust emissions management plan
	Visual dust checks	Daily		
At the monitoring locations as approved under IC4.	Particulate matter less than 10 micrometres in diameter (PM_{10})	Continuous	As agreed in writing by the Environment Agency	The system must be managed and maintained by suitably trained personnel. Calibrated in accordance with the manufacturer's recommendations.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Point source emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July
Process monitoring (moisture content) parameters as required by condition 3.5.1	At the IBA and IBAA waste stockpiles	Every 6 months	1 January, 1 July
Process monitoring (flow, pH and conductivity) parameters as required by condition 3.5.1	W1	Every 12 months	1 January
Process monitoring (ambient air – deposited dust and visual dust checks) as required by condition 3.5.1	At the monitoring locations identified under Request for Information response dated 06/01/2025 question 3: Dust monitoring locations	Every 6 months	1 January, 1 July
Process monitoring (ambient air – continuous PM_{10}) as required by condition 3.5.1	At the monitoring locations as approved under IC4.	To be agreed with the Environment Agency	To be agreed with the Environment Agency

Table S4.2 Annual production/treatment	
Parameter	**Units**
Incinerator bottom ash treated	tonnes
Incinerator bottom ash aggregate produced	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	m^3 per tonne of processed ash
Energy usage	Annually	MWh per tonne of processed ash

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Point source emissions to water	Emissions to Water Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Process monitoring	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Ambient air monitoring	Ambient Air Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

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

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	**Notification period**

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“bottom ash” means ash falling through the grate transported by the grate.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

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

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

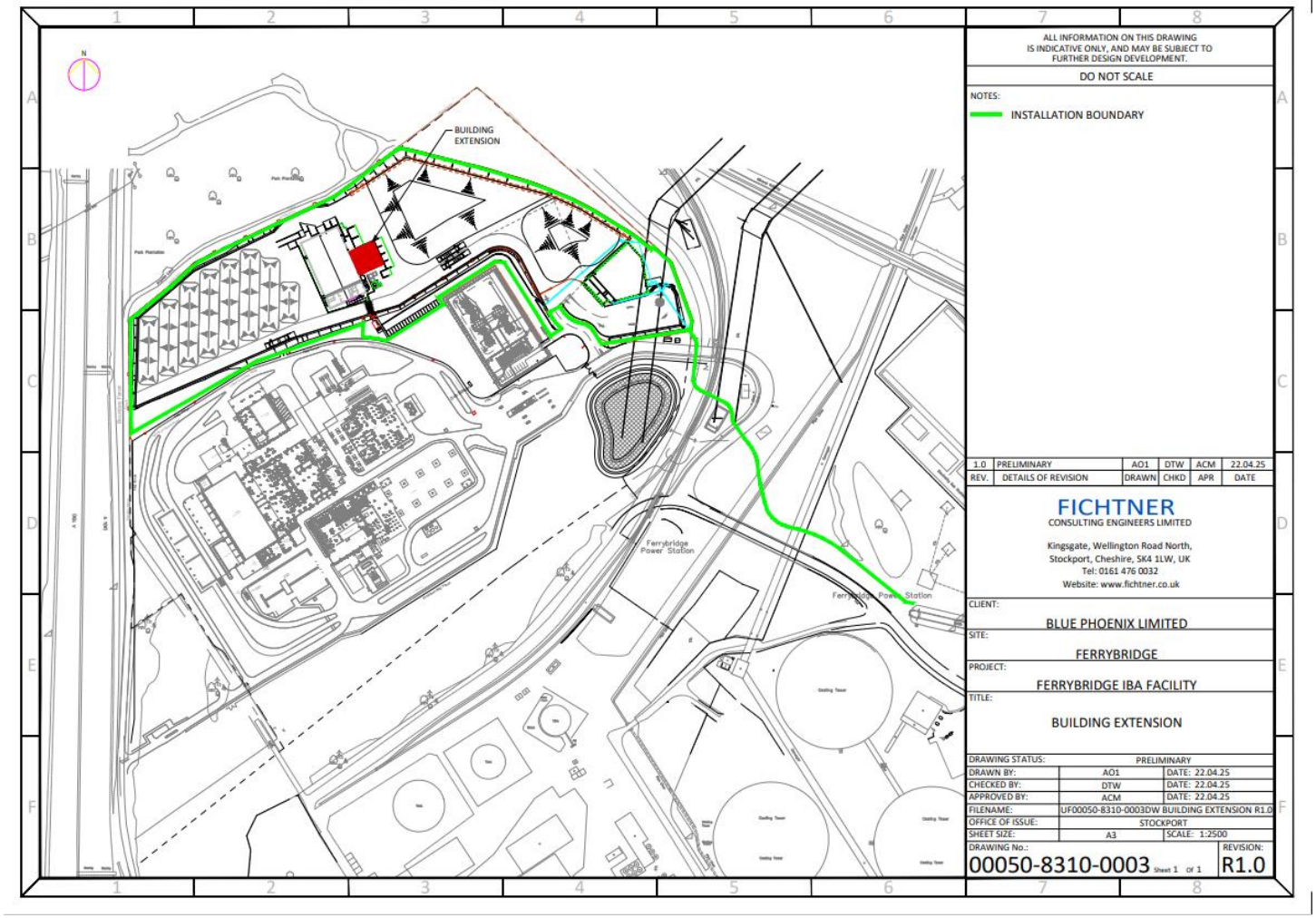
“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table/those tables they have the meaning given below:

Schedule 7 – Site plan



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END OF PERMIT

Reporting Forms

Ambient Air Monitoring Form

Permit number: *[EPR/AB1234CB]* **Operator:** *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]* **Ambient Air Monitoring Form: version 2, February 2026**

Reporting of monitoring ambient air for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Monitoring point	Substance / parameter	Compliance limit	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Measurement uncertainty [4]
[e.g. P1]	*[e.g. PM_{10} suspended particulate matter]*	*[e.g. 50 $\mu g/m^3$]*	*[24 hour average]*	*[e.g. BS EN 12341:2014]*	*[State result]*	*[State relevant dates and time periods]*	*[State % uncertainty at 95% confidence interval]*

Monitoring point	Substance / parameter	Compliance limit	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Measurement uncertainty [4]

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

[1] Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
[2] Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
[3] For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.

Give the uncertainty associated with the quoted result at the 95% confidence interval. State any confidence intervals that are not 95%.