Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Johnsons Aggregates and Recycling Limited

Johnsons Aggregates and Recycling Limited – The Midlands Urban Mine
Merlin Way
Quarry Hill Industrial Estate
Ilkeston
Derbyshire
DE7 4BG

Variation application number

EPR/MP3430AM/V007

Permit number

EPR/MP3430AM

Johnson Aggregates and Recycling Limited – The Midlands Urban Mine
Permit number EPR/MP3430AM

Introductory note

This introductory note does not form a part of the permit

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:

This variation has added a waste operation for blending of waste 6F5 aggregates with Incinerator Bottom Ash Aggregate (IBAA).

This variation has consolidated the original permit and subsequent variations.

Brief summary of the process

The permit allows for the storage and treatment of Incinerator Bottom Ash (IBA) to produce Incinerator Bottom Ash Aggregate (IBAA). The operator is permitted to undertake the following installation activities:

- Section 5.4 Part A(1)(b)(iii) - 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.
- S5.4 A(1) (b) (iv) - Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment in shredders of metal waste.
- Storage of waste prior to treatment.
- Storage of processed waste.
- Storage of raw materials.
- Collection and storage of contaminated site surface water for reuse on site.
- Collection and storage of uncontaminated roof and site surface water
- Mixing and blending of virgin/primary aggregates with IBAA

In addition to the installation activities, the permit also allows mixing and blending of waste aggregates with IBAA as a waste operation.

Treatment processes involve the removal of ferrous and non-ferrous metals and screening of IBA to produce different sized fractions of IBAA using vibrating screens, electrostatic and magnetic separators that are located within a building. The storage and treatment operations are on an impermeable surface with sealed drainage.

The installation receives up to 450,000 tonnes of IBA from the thermal treatment of municipal solid waste, 50,000 tonnes of metal wastes per year and 121,500 tonnes of 6F5 aggregates for blending purposes. The permit also includes Directly Associated Activities including, storage of waste pending recovery, storage of processed materials, raw materials storage, and storage of surface and process water collections.

The principal potential emissions from the site are dust and noise. There are channelled emissions to air from the IBA treatment and metal shredding operations.

Dust control measures are addressed through an approved Dust and Emissions Management Plan. This addresses potential sources of dust from waste acceptance, vehicle management, stockpile control and process control. The IBA is received at a moisture content of approximately 20%. Regular spraying of the

pile is applied as required to control potential dust. Monitoring for dust is addressed through a dust monitor with a trigger level and visual site inspections.

Mains water, roof water collected in a tank and runoff collected in three wedgepits lagoons are used in dust suppression. During periods of high rainfall and before the wedge pit lagoons reach full capacity, excess water will be collected in tankers and removed off-site for disposal at an appropriate treatment facility. There are no discharges of trade effluent to controlled waters or foul sewer from this Installation.

There are no internationally designated ecological sites and Sites of Special Scientific Interest within the relevant distance criteria of the Installation. There are thirty non-statutory sites (Local Wildlife Sites, Ancient Woodlands and Local Nature Reserves) within 2 km of the Installation. Assessment by the Environment Agency shows that emissions from the Installation are unlikely to have an adverse impact on interest features of the ecological sites.

The installation and waste activities will be managed in accordance with an Environmental Management System (EMS), which has been inspected and audited by the Environment Agency. The site is also accredited to ISO 9001 and 14001

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/MP3430AM/A001	Duly made 10/03/15	Application for a waste incinerator bottom ash treatment and metal processing facility.
Additional information received	12/05/15	Response to Schedule 5 notice #1 dated 14/04/15.
Additional information received	19/06/15	Response to Schedule 5 notice #2 dated 08/06/15.
Additional information received	01/07/15	Revised list of wastes.
Additional information received	06/07/15	Revised site plan.
Additional information received	10/07/15	IBA drier process description, revised site drainage plan, location of rotor shedder and clarification of site infrastructure.
Application EPR/MP3430AM/A001	Duly made 10/03/15	Application for a waste incinerator bottom ash treatment and metal processing facility.
Permit determined. EPR/MP3430AM	16/07/15	Permit issued to Johnsons Aggregates and Recycling Limited.
Application EPR/MP3430AM/V002 (variation)	Duly made. 16/09/16	Application to vary the permit to amend the list of wastes table, S2.3.
Variation determined. EPR/MP3430AM	03/11/16	Varied permit issued.
Application EPR/MP3430AM/V003 (variation and consolidation)	Duly made 10/11/17	Application to vary and update the permit to modern conditions. Variation to extend permit boundary to allow for increased storage capacity of incoming IBA.
Additional information received	04/01/18	Response to Schedule 5 notice #1 dated 15/12/17.
Additional information received	08/02/18	Response to Schedule 5 notice #1 dated 15/12/17.
Additional information received	05/03/18	Response to Schedule 5 notice #2 dated 26/02/18.

Status log of the permit		
Description	**Date**	**Comments**
Variation determined EPR/MP3430AM	28/03/18	Varied and consolidated permit issued.
Application EPR/MP3430AM/V004 (variation and consolidation)	Duly made 28/02/18	Application to vary the permit to amend emission limit values of the existing burner.
Additional information	23/03/18	Site air quality monitoring reports.
Additional Information received	15/05/18	Clarification of air quality monitoring reports and modelling input parameters.
Variation determined EPR/MP3430AM	22/05/18	Varied and consolidated permit issued.
Application EPR/MP3430AM/V005 (variation and consolidation)	Duly made 26/10/18	Application to increase the annual throughput for activity AR1 (the treatment of incinerator bottom ash)
Variation determined EPR/MP3430AM (PAS billing ref: SP3636QA)	29/03/19	Varied and Consolidated permit issued
Environment Agency Non-hazardous Waste Sector Review Variation number EPR/MP3430AM/V006 (variation and consolidation)	08/04/22	Non-hazardous waste Sector Review - documents received in response to the Regulation 61 Notice dated 08/11/2021.
Email received in response to the Request for Further Information (RFI).	02/02/24	Information received in response to the Request for Further Information including: • Confirmation of removal of diesel fuelled drier from the IBA treatment process. • Confirmation of wedge pits capturing all process and rainwater runoff. • Detail of the extraction system from the metal shredder and the use of a cyclone and filter bag. • An Energy savings plan. • Confirmation of energy monitoring and availability of Sankey diagrams.
Variation determined and consolidation issued EPR/MP3430AM	08/04/24	Varied and consolidated permit issued.
Variation EPR/MP3430AM/V007 - Additional Information Received	30/05/24	Information received in response to a request for further information on blending of waste aggregates with IBAA including: • Annual tonnage of 6F5 waste aggregate. • Annual tonnage of virgin aggregate.
	14/06/24	Information received in response to a request for further information on blending of waste aggregates with IBAA including: • Storage of 6F5 in tonnage at any one time on site.
Variation determined and consolidation issued EPR/MP3430AM	02/07/24	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

Permit number

EPR/MP3430AM

Issued to

Johnsons Aggregates and Recycling Limited ("the operator")

whose registered office is

Johnsons Recycling Centre
Crompton Road
Off Merlin Way
Ilkeston
Derbyshire
DE7 4BG

company registration number 04366658

to operate a regulated facility at

Johnsons Aggregates and Recycling Limited – The Midlands Urban Mine
Merlin Way
Quarry Hill Industrial Estate
Ilkeston
Derbyshire
DE7 4BG

to the extent set out in the schedules.

The notice shall take effect from 02/07/24.

Name	Date
Matthew Allen	**02/07/24**

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions and tables have been deleted/varied/added as a result of the Environment Agency Initiated Variation:

Conditions	Amendment
2.3.4	Added table S2.4 to condition wording
Table S1.1	Rewording of activity AR8 and addition of AR9 activity -Waste Operation- Treatment of waste by blending of waste aggregates with IBAA
Table S2.4	Addition of waste table for blending of 6F5
Table S4.2	Addition of 6F5 to annual production/treatment table

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/MP3430AM

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/MP3430AM/V007 authorising,

Johnsons Aggregates and Recycling Limited ("the operator"),

whose registered office is

Johnsons Recycling Centre
Crompton Road
Off Merlin Way
Ilkeston
Derbyshire
DE7 4BG

company registration number 04366658

to operate an installation at

Johnsons Aggregates and Recycling Limited – The Midlands Urban Mine
Merlin Way
Quarry Hill Industrial Estate
Ilkeston
Derbyshire
DE7 4BG

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

Name	Date
Matthew Allen	**02/07/2024**

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.

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; and

(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 tables S2.2 S2.3; and S2.4

(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.

3.4 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;

(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 tables S3.1 and S3.2 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 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 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:

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

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

In any other case:

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

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

(g) 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 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.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of permitted waste to treatment and recovery to produce incinerator bottom ash aggregate. Treatment consisting of crushing, separation and screening of incinerator bottom ash shall be carried out in an enclosed building and/or equipment and on an impermeable surface with sealed drainage. Treatment shall be carried out in specified areas as detailed in the application (JA10b and JA10c). There shall be no channelled emissions to air and/or surface water or sewer from this activity. Waste types and quantities suitable for acceptance are limited to those specified in Table S2.2.
AR2	S5.4 A(1) (b) (iv) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment in shredders of metal waste	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials.	From receipt of metal wastes to treatment and recovery. Treatment consisting only of sorting, separation, grading, shearing, shredding, baling, compacting, crushing and cutting of ferrous and non-ferrous metals into different components for recovery. Treatment of metal wastes shall be carried out in an enclosed building and/or equipment and on an impermeable surface with sealed drainage system. Treatment shall be carried out in specified area as detailed in the application (JA10b and JA10c). There shall be no channelled emissions to

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**
			surface water or sewer from this activity. Waste types and quantities suitable for acceptance are limited to those specified in Table S2.3.
Directly Associated Activity			
AR3	N/A	Storage of waste pending recovery R13: Storage of waste pending the operations numbered R4 and R5 (excluding temporary storage, pending collection on the site where it is produced).	Storage of incinerator bottom ash in the designated external area on an impermeable surface with sealed drainage system, prior to treatment. Storage of metal wastes in the designated external bay on an impermeable surface with sealed drainage system, prior to shredding. Waste types and quantities suitable for acceptance are limited to those specified in Tables S2.2 and S2.3.
AR4	N/A	Storage of processed waste. Storage of separated ferrous metals, non-ferrous metals and incinerator bottom ash aggregate.	From storage of processed waste to despatch for recovery off site. Storage of separated ferrous, non-ferrous metals and incinerator bottom ash aggregate shall be undertaken on an impermeable surface with sealed drainage system.
AR5	N/A	Raw material storage. Storage of raw materials including diesel, lubrication oils and virgin aggregate	From the receipt of raw materials to despatch for use within the facility. Storage of raw materials including; diesel, lubrication oils and virgin aggregate shall be undertaken as described in the application.
AR6	N/A	Process water collection and storage. Collection and storage of process water from incinerator bottom ash storage heaps in three wedge pit lagoons.	From the collection of water from storage areas to re-use within the facility for dust suppression or disposal off-site.

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**
AR7	N/A	Surface water collection and storage Collection and storage of uncontaminated roof and site surface water in three storage tanks.	From the collection of uncontaminated rain water from building roofs only to re-use within the facility or disposal off-site.
AR8	N/A	Mixing and blending of virgin aggregates with IBAA. R5: Recycling/reclamation of other inorganic materials	Treatment shall take place on an impermeable surface with sealed drainage. .

Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR9 – Treatment of waste by blending of waste aggregates with IBAA	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) R5: Recycling/reclamation of other inorganic compounds	From receipt of waste to despatch off-site for use. Treatment operations shall be limited to mixing and blending of waste aggregates with IBAA. The maximum quantity of waste aggregates stored at any one time for blending with IBAA at the site is limited to 3750 tonnes. Waste types and quantities suitable for acceptance are limited to those specified in Table S2.4.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/MP3430AM/A001	Information JA09a, JA09b provided in response to section 3a – technical standards, Part B3 of the application form: • JA09a – Directly Associated Activities. • JA09b – Hauck Starjet Manual. Other documents: • JA01b – Site location plan. • JA10a – Simplified Process Flow Diagram. • JA10b – IBA Process Flow Description. • JA10c – Detailed Process Flow Diagram. • JA17 – Site Closure Plan	10/03/15
Response to Schedule 5 Notice #1 dated 14/04/15	Response to questions 1, 4 and 13, including the following documents: • JA02 – non-technical summary. • JA08 – List of wastes. • JARL04 – Site storage areas. • JA07a – Site environmental risk assessment. • JA18 – Accident Management Plan.	12/05/15

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
	JA12 – Waste pre-acceptance, acceptance and storage procedures	
Response to Schedule 5 Notice #2 dated 08/06/15	Response to questions 1 to 8 including the following documents: • JA16 – Best Available Techniques. Drawing JARL05A – Site Emergency Plan.	19/06/15
Additional information	Inclusion of waste code 19 12 12 for ash treatment	01/07/15
Additional information	Revised site layout plan.	06/07/15
Additional information	IBA drier process description, revised site drainage plan, location of rotor shedder and clarification of site infrastructure.	10/07/15
Application EPR/MP3430AM/V003 Response to Schedule 5 notice #1 dated 15/12/17	• Site drainage strategy (Drawing no. C2487-600). • Written response to questions 22a and 22b	08/02/18
Response to request for information dated 02/02/18	• JA_Var_07e – Updated Environmental Risk Assessment. • Written response to question 2.	08/02/18
Response to Schedule 5 notice #2 dated 26/02/18	• JA_VAR Flood Action Plan_v2. • Written responses to questions 4a, 4b and 5.	05/03/18
Application EPR/MP3430AM/V005	• JAR_TPV Non-Technical Summary	24/10/18
Additional information received	• JA15 Consolidated Odour Management Plan V2.	28/03/19
Additional Information assessed	• JARL-14 Consolidated Dust Management Plan V7	03/08/23
Response to regulation 61 notice EPR/MP3430AM/V006	Documents received in response to the Regulation 61 Notice titled 'Johnsons Aggregates NHI Installations Reg 61 notice – Annex 1 tranche 2 for EA"	08/04/22
Additional information received in response to the Requests for Further Information (RFI) issued on the 04/01/24 and 18/01/24	Response to questions 1 to 8 of the RFI and documents titled "Request for Information reg 61 Stanton"	02/02/24
Additional Information received in response request for further information 27/03/24	'" Site plan 002" showing discharge point at site',	05/04/24

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the installation as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the installation against the conditions of	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.	
IC2	The operator shall undertake a detailed revised assessment of noise and vibration from site activities to verify the assumptions made in the application. The assessment shall be conducted in accordance with the specified procedures in BS4142:2014. The results of the assessment together with conclusions and recommendations shall be submitted to the Environment Agency for approval in writing.	08/10/2024 6 months
IC3	Following the completion of IC2 and in accordance with the assessment method specified in BS4142:2014, the operator shall submit to the Environment Agency a report detailing proposals and timescales for the implementation of appropriate noise mitigation measures to ensure that site noise levels do not give rise to pollution. The proposals for noise mitigation shall be in accordance with the requirements of the Environment Agency's Technical Guidance Note IPPC H3 (Part 2) – Noise Assessment and Control. The proposals shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to any such amendments or additions as notified by the Environment Agency.	1 month following the completion of IC2.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Oil, lubrication, and hydraulic oils	--

Table S2.2 Permitted waste types and quantities for storage and treatment of incinerator bottom ash (Activities AR1 and AR3)	
Maximum quantity	**Annual throughput shall not exceed 450,000 tonnes.**
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	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 – residual IBA received back for recovery

Table S2.3 Permitted waste types and quantities for storage and metal shredding (Activities AR2 and AR3)	
Maximum quantity	**Annual throughput shall not exceed 50,000 tonnes.**
Waste code	**Description**
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 04	**metals (including their alloys)**
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
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 02	ferrous materials removed from bottom ash
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 02	ferrous metal

19 12 03	non-ferrous metal
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**metals (including their alloys)**
20 01 40	metals

Table S2.4 Permitted waste types and quantities for treatment by blending of aggregates with IBAA produced at the site.	
Maximum quantity	**Annual throughput shall not exceed 121,500 tonnes.**
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 12	**Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (6F5 aggregates only)

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency (1)	Monitoring standard or method
Exhaust stack EM01 as referenced on site map in schedule 7.	Metal shredder air extraction and abatement system	Dust	5 mg/m^3	Average over sample period (1)	Once every six months	BS EN 13284-1
		Brominated flame retardants (2)	No limit set	Average value of 3 consecutive measurements of at least 30 minutes	Annually	--
		Dioxin-like PCBs	No limit set	Average value of 3 consecutive measurements of at least 30 minutes	Annually	EN 1948-1, 2, 4.
		Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V) (2)	No limit set	Average value of 3 consecutive measurements of at least 30 minutes	Annually	EN 14385
		PCDD/F (2)	No limit set	Average value of 3 consecutive measurements of at least 30 minutes	Annually	EN 1948-1, -2 and -3 (3)
		TVOC	No limit set	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 12619

1) Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.

2) The monitoring only applies when the substance concerned is identified as relevant in the waste gas stream based on the inventory mentioned in BAT 3.

3) Instead of EN 1948-1, sampling may also be carried out according to CEN/TS 1948-5.

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**
Process building; External storage areas; Wedge pit lagoons	Odour	Two times per day	Olfactory monitoring	Odour detection at the site boundary
Process building; External storage areas; Wedge pit lagoons	Dust	Two times per day	Visual assessment	Dust detection at the site boundary
Oil storage tanks, site surfacing	Integrity checks	Weekly	Visual assessment	--
Wedge pit lagoons	Level checks	Daily	Visual assessment	--

Table S3.3 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Processing and storage areas.	Particulate matter (Dust)	Monthly	M17 Guidance	Frisbee Gauge or dust meter

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Point source emissions to air Parameters as required by condition 3.5.1	EMO1 as referenced in site plan in Schedule 7 (Metal Shredder)	Every 12 months	1 January
Ambient air monitoring Parameters as required by condition 3.5.	As referenced in JARL-14 Consolidated Dust Management Plan V7	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	**Units**
Incinerator bottom ash processed	tonnes
Incinerator bottom ash aggregate recovered	tonnes
6F5 aggregates	tonnes
Ferrous metals recovered	tonnes
Non-ferrous metals recovered	tonnes
Process water tankered off-site	tonnes or m^3

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	tonnes or m^3
Energy usage	Annually	MWh
Other performance parameters	Annually	tonnes or m^3

Table S4.4 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Point source emissions to air	Emissions to Air Reporting 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 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Table S4.4 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Waste returns	E-Waste Return Form or other form as agreed in writing by the Environment Agency	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(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.

“baling” means baling that utilises a hydraulic machine that using compressive forces compacts various materials into regular-shaped dense bales (typically a cube). Bales may be belted with straps or steel wire to keep the bale in its compacted state; although for most metal bales this is not necessary. Baled scrap metal may be easier to handle, store and transport than loose scrap.

“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.

“compacting” means compacting involving the flattening or crushing of compactable metal wastes to aid storage and economic transportation to the scrap processor; it is often a preparation for shredding. Compacting may be achieved using a waste handler’s loading shovel (known as “tapping”) or specially-designed hydraulic flattener.

“cutting” means cutting typically utilising either an oxy-acetylene gas cutting torch or abrasive disc cutter to cut and/or resize large pieces of scrap metal into more manageable sizes; powder torches and plasma torches may be used to cut heat-resistant scrap e.g. pig iron, copper, bronze).

“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 limit.

“grading” means the sorting of metals to industry-agreed specifications ready for use, without the need for further treatment, by the end consumer to manufacture new metals.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

“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 the Waste Framework Directive.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

• no liquids will run off the surface otherwise than via the system

• all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

“separation” means separating wastes into different material types, components and grades.

“shearing” means utilises a range of hydraulic machinery that comprise hard steel blades which cut metals into manageable sizes. It may be hand-held, static or attached to mobile plant (e.g. cranes).

“sorting” means sorting that may be undertaken by hand or machinery. Sorting enables materials to be processed and recycled appropriately. It may involve separation of different waste types or the separation of different metal types including different ferrous metals, non-ferrous metals and non-metallic materials (e.g. paper and plastic). The sorted metals are graded by visual inspection, supplemented by chemical and other laboratory tests. The physical sorting may be assisted by conveyors and electromagnets.

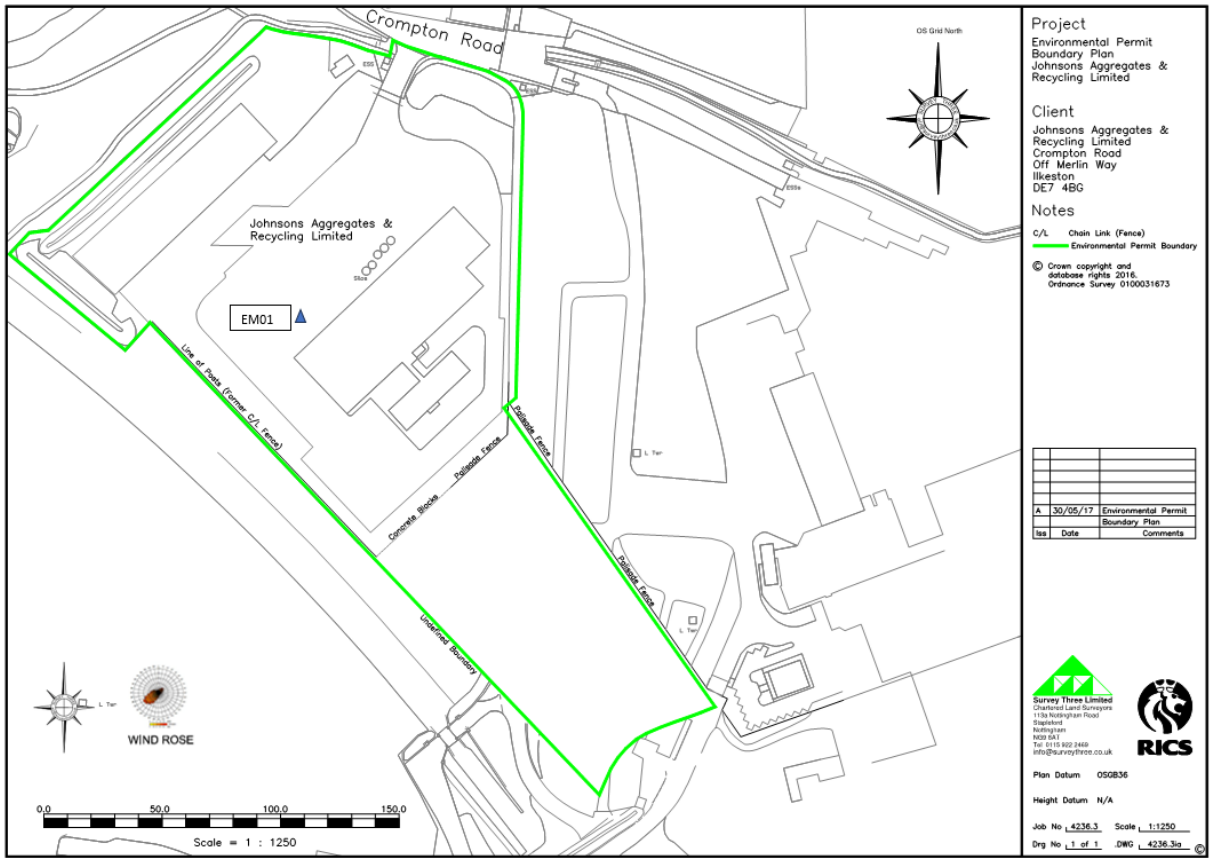
“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“year” means calendar year ending 31 December

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.

Schedule 7 – Site plan



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END OF PERMIT

Reporting Forms

Emissions to Air Reporting Form

Permit number: EPR/MP3430AM

Operator: Johnsons Aggregates and Recycling Limited

Facility name: Midlands Urban Mine

Emissions to Air Reporting Form: version 1, 08/03/2021

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

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. A1]	*[e.g. Oxides of nitrogen (NO and NO_2 expressed as NO_2)]*	*[e.g. 200 mg/m^3]*	*[e.g. daily average]*	*[e.g. BS EN 14181]*	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

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.

[4] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Ambient Air Monitoring Form

Permit Number: EPR/MP3430AM **Operator: Johnsons Aggregates and Recycling Limited**

Facility: Midlands Urban Mine **Ambient Air Monitoring Form: version 1, 08/03/2021**

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]	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 if not 95% confidence interval]*

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.

Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Process Monitoring Form

Permit number: EPR/MP3430AM

Operator: Johnsons Aggregates and Recycling Limited

Facility name: Midlands Urban Mine

Process Monitoring Form: version 1, 08/03/2021

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

Monitoring point description or source	Parameter	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. Condenser V 2345]	*[e.g. cooling water outlet temperature]*	*[e.g. instantaneous]*	*[if applicable]*	*[State result]*	*[State relevant dates and time periods]*	*[if applicable]*

Operator's comments

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.

[4] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage Reporting Form

Permit number: EPR/MP3430AM

Operator: Johnsons Aggregates and Recycling Limited

Facility name: Midlands Urban Mine

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year *[YYYY]*

Water source	Water usage (m^3)	Specific water usage (m^3/unit) [2]
Mains water	*[insert annual usage in m^3 where mains water is used]*	*[insert annual usage in m^3/unit where mains water is used]*
Site borehole	*[insert annual usage in m^3 where water is used from a site borehole]*	*[insert annual usage in m^3/unit where water is used from a site borehole]*
River abstraction	*[insert annual usage in m^3 where abstracted river water is used]*	*[insert annual usage in m^3/unit where abstracted river water is used]*
Other – *[specify other water source where applicablel. Add extra rows where needed]*	*[insert annual usage in m^3 where applicable]*	*[insert annual usage in m^3/unit where applicable]*
Total water usage	*[insert total annual water usage in m^3]*	*[insert total annual water usage in m^3/unit]*

Operator's comments

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

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: EPR/MP3430AM **Operator:** Johnsons Aggregates and Recycling Limited

Facility name: Midlands Urban Mine **Energy Usage Reporting Form: version 1, 08/03/2021**

Reporting of energy usage for the year *[YYYY]*

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) [2]
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	*[insert annual consumption in MWh where electricity is imported]*	*[insert annual consumption in MWh/unit where electricity is imported]*
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	*[insert annual consumption in MWh where electricity is imported]*	*[insert annual consumption in MWh/unit where electricity is imported]*
Natural gas	*[insert annual consumption in MWh where natural gas is used]*	*[insert annual consumption in MWh/unit where natural gas is used]*
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	*[insert annual consumption in MWh where gas oil is used]*	*[insert annual consumption in MWh/unit where gas oil is used]*
Imported heat	*[insert annual consumption in MWh where heat is imported]*	*[insert annual consumption in MWh/unit where heat is imported]*
Other – *[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]*	*[insert annual consumption in MWh where applicable]*	*[insert annual consumption in MWh/unit where applicable]*
Electricity exported	*[insert annual production in MWh where electricity is exported]*	Not applicable
Heat exported	*[insert annual production in MWh where heat is exported]*	Not applicable

Operator's comments

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

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

[1] Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.
[2] Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: EPR/MP3430AM

Operator: Johnsons Aggregates and Recycling Limited

Facility name: Midlands Urban Mine

Other Performance Parameters Reporting Form: version 1, 08/03/2021

Reporting of other performance parameters for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Parameter	Units
[e.g. Total raw material usage]	*[e.g. tonnes per production unit]*

Operator's comments

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

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.