

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Mercury Recycling Limited
Mercury Recovery Trafford Park
Mercury House
17 Commerce Way
Trafford Park
Manchester
M17 1HW

Variation application number

EPR/YP3735SS/V004

Consolidated permit number

EPR/YP3735SS

Mercury Recovery Trafford Park

Permit number EPR/YP3735SS

Introductory note

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

The following notice gives notice of the variation of environmental permits EPR/YP3735SS and EPR/PP3892CL referred to in the status logs below and the replacement of those permits with a consolidated environmental permit.

This variation and consolidation combines Mercury Recycling Limited's current installation operation permit, EPR/YP3735SS, with its current waste operation permit, EPR/PP3892CL referred to in the status logs below. The consolidated permit will continue as EPR/YP3735SS and permit, EPR/PP3892CL, will cease.

Mercury Recycling Limited operates a site at Trafford Park, Manchester (National Grid Reference 379310, 396090) providing a range of services for mercury bearing wastes (such as barometers, thermometers, dental amalgam, mercury tilt switches, lamp phosphor residues etc.), waste electrical and electronic equipment, gas discharge lamps and battery wastes.

The facility will handle up to 25,000 tonnes of waste per annum. The wastes are delivered to site by Mercury Recycling Limited's own dedicated transport, customer clients and members of the public. On arrival, all wastes are processed through the site acceptance procedures involving assessment of paperwork and visual inspection of the waste load.

The activities on the site consist of manual decanting, sorting, dismantling, repacking, crushing, decontamination, mechanical separation, vacuum distillation of mercury from mercury bearing wastes and hazardous waste storage.

All waste treatment operations take place within a building or on an impermeable surface with no drainage systems. The service yard, external to the building, consists of an impermeable surface with a sealed drainage system. Any drainage is directed to an interceptor and then to a storage tank. There is no discharge to drain or surface waters from the site waste treatment areas or service yard.

All activities with potential to release contaminants into the air, such as mercury vapour or lamp powders, are carried out in controlled processes with extraction and abatement systems. A two-stage filtration system removes particulates and a bank of sulphur impregnated activated carbon filters removes residual mercury vapour prior to discharge to atmosphere.

The site is managed to remove or reduce any risk of nuisance from noise, dust, litter, odour and vermin. Detailed maintenance plans and inspection schedules minimise the risks of unplanned breakdowns.

The variation adds a number of new permitted waste codes that are consistent with current mercury-containing waste streams and WEEE streams.

The site embeds all its operational procedures, processes, maintenance systems and environmental permit requirements within its ISO9001 quality system.

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 permit A: EPR/YP3735SS		
Description	Date	Comments
Application YP3735SS (EPR ref. EPR/YP3735SS/A001)	22/04/05	

Status log of permit A: EPR/YP3735SS		
Description	Date	Comments
Permit YP3735SS determined (EPR ref. EPR/YP3735SS)	16/08/05	
Variation MP3037UX issued (EPR ref. EPR/YP3735SS/V002)	12/11/07	
Variation Application EPR/YP3735SS/V003	Duly Made 01/05/12	
Variation EPR/YP3735SS/V003 determined	11/05/12	
Application EPR/YP3735SS/V004 & EPR/PP3892CL/V005 (variation and consolidation with EPR/PP3892CL)	Duly made 18/09/17	Application to vary and update the permit to modern conditions.
Response to request for further information (21/07/17)	07/08/17	Information on: - Additional EWC Codes - Superior Distiller Operation - Storage of materials & wastes
Response to request for further information (23/08/17)	18/09/17	Information on: - Handling/treatment of non-hazardous packaging, contaminated absorbents, domestic appliances containing ozone depleting substances - Capacity of shredder for mercury switches - Annual quantities of 19 10 & 19 12 wastes
Variation determined EPR/YP3735SS/V004 (PAS Ref: LP3830AF)	17/11/17	Varied and consolidated permit issued in modern condition format.

Status log of permit B: EPR/PP3892CL		
Description	Date	Comments
Application EAWML 50503 EPR/PP3892CL/A001	Duly made 02/04/07	
Permit determined EPR/PP3892CL/A001	06/11/07	Permit issued to Mercury Recycling Limited
Permit modification EPR/PP3892CL/V002	07/11/08	
Variation application EPR/PP3892CL/V003	Duly made 01/05/12	
Variation determined EPR/PP3892CL/V003	11/05/12	
Environment Agency initiated variation EPR/PP3892CL/V004	31/03/14	Variation to insert conditions required by Article 3 of Regulation (EU) No. 493/2012.
Application EPR/PP3892CL/V005 (variation and consolidation with EPR/YP3735SS)	Duly made 18/09/17	Application to vary and update the permit to modern conditions.

Status log of permit B: EPR/PP3892CL		
Description	Date	Comments
Response to request for further information (21/07/17)	07/08/17	Information on: - Additional EWC Codes - Superior Distiller Operation - Storage of materials & wastes
Response to request for further information (23/08/17)	18/09/17	Information on: - Handling/treatment of non-hazardous packaging, contaminated absorbents, domestic appliances containing ozone depleting substances - Capacity of shredder for mercury switches - Annual quantities of 19 10 & 19 12 wastes
Variation determined EPR/YP3735SS/V004	17/11/17	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates environmental permits

Permit numbers

Permit A: EPR/YP3735SS

Permit B: EPR/PP3892CL

Issued to

Mercury Recycling Limited ("the operator")

whose registered office is

**Mercury House
17 Commerce Way
Trafford Park
Manchester
M17 1HW**

company registration number 02977989

to operate regulated facilities at

**Mercury Recovery Trafford Park
Mercury House
17 Commerce Way
Trafford Park
Manchester
M17 1HW**

to the extent set out in the schedules.

The notice shall take effect from 17/11/2017

The number of the consolidated permit is EPR/YP3735SS.

Name	Date
Mike Jenkins	17/11/2017

Authorised on behalf of the Environment Agency

Schedule 1 – changes in the permit

Note: The conditions numbers used in this schedule refer to those in the consolidated permit.

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/YP3735SS

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/YP3735SS/V004 authorising,

Mercury Recycling Limited (“the operator”),

whose registered office is

**Mercury House
17 Commerce Way
Trafford Park
Manchester
M17 1HW**

company registration number 02977989

to operate an installation and waste operations at

**Mercury Recovery Trafford Park
Mercury House
17 Commerce Way
Trafford Park
Manchester
M17 1HW**

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

Name	Date
Mike Jenkins	17/11/2017

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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR9), 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR9), 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 red 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 to S1.4, 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 to S1.4, 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 All activities shall take place on impermeable surfaces with sealed drainage, unless otherwise specified in Table S1.1 or agreed in writing with the Environment Agency.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.1 - S2.5 and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.6 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 properties associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.7 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 Hazardous waste storage and treatment

- 2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 WEEE storage and treatment

- 2.5.1 Spillage collection facilities and, where appropriate, decanters and cleanser-degreasers shall be provided and used as necessary.
- 2.5.2 WEEE (disassembled spare parts, components and residues) shall be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate.
- 2.5.3 WEEE shall be treated using best available treatment, recovery and recycling techniques (BAT/RTT).
- 2.5.4 All fluids contained within any WEEE shall be removed prior to further treatment.
- 2.5.5 As a minimum, the substances, preparations and components specified in table S1.3 shall be removed from any separately collected WEEE.
- 2.5.6 Separately collected components of WEEE specified in table S1.4 shall be treated in accordance with the methods specified in that table.
- 2.5.7 Any liquids including those in disassembled spare parts, batteries, capacitors containing PCBs/PCTs and any other hazardous waste shall be stored in suitable sealed and labelled containers.
- 2.5.8 Equipment shall be provided and used to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

2.6 Waste battery and accumulator treatment

- 2.6.1 Treatment of batteries and accumulators shall, as a minimum, include removal of all fluids and acids.

2.7 Improvement programme

- 2.7.1 The operator shall complete the improvements specified in schedule 1 table S1.6 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.7.2 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 Total annual emissions from the emission point set out in schedule 3 table S3.1 of a substance listed in schedule 3 table S3.2 shall not exceed the relevant limit in table S3.2.

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) annual limit specified in table S3.2;

(c) process 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.
- 3.5.5 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.

3.6 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.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR9) 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 one month of the end of each year, 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 year.

4.2.6 The operator must calculate the recycling efficiency of a process for recycling waste batteries and accumulators, and report to the Environment Agency, in accordance with Article 3 of Regulation (EU) No. 493/2012.

4.3 Notifications

4.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR9), 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 For the following activities referenced in schedule 1, table S1.1 (AR10), the Environment Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 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.

4.3.6 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.

- 4.3.7 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.
- 4.3.8 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.9 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 For the following activities referenced in Schedule 1, Table S1.1 (AR1 to AR9) 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.
- 4.4.3 For the following activities referenced in Schedule 1, Table S1.1, (AR10) in this permit, references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", 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	S2.2 A (1) (c) Producing, melting or recovering (whether by chemical means or by electrolysis or by the use of heat) cadmium or mercury or any alloy containing more than 0.05 per cent by weight of either of those metals or both in aggregate.	Vacuum distillation of mercury from mercury bearing wastes. R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Receipt, handling and storage of mercury bearing wastes. Recovery of mercury. Waste types suitable for acceptance are limited to those waste types specified in Table S2.2.
AR2	S5.3 A (1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	Hazardous waste treatment of batteries, lamps, mercury containing articles and WEEE. R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Treatment of WEEE shall be carried out within a building provided with weatherproof covering on an impermeable surface. Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR3	S5.3 A (1) (a) (iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging prior to submission to any of the other activities listed in this Section or in Section 5.1	Repackaging for recovery. R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/ reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Treatment of WEEE shall be carried out within a building provided with weatherproof covering on an impermeable surface. Waste types suitable for acceptance are limited to those specified in Table S2.4.
AR4	S5.6 A (1) (a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3	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)	Storage of hazardous WEEE and hazardous mercury bearing materials. Waste types suitable for acceptance are limited to those specified in Table S2.3.

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
	Directly Associated Activity		
AR5	Physical treatment for the purpose of recycling	R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Treatment consisting only of sorting, separation and dismantling.
AR6	Storage of waste, excluding temporary storage of hazardous waste under Section 5.6 A(1)(a)	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste to treatment.
AR7	Storage of processed materials, excluding temporary storage of hazardous waste under Section 5.6 A(1)(a)	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage and repacking of dismantled equipment.
AR8	Raw materials storage	Storage of raw materials including, nitrogen, glycol, fuels and activated carbon.	From the receipt of raw materials to despatch for use within the facility.
AR9	Site aqueous drainage management.	Management of site drainage from storage and treatment areas.	Collected surface water and run off from impermeable surfaces in treatment and storage areas to pass through interceptor into storage tank.

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
AR10 Waste electrical and electronic equipment authorised treatment facility	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) R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/ reclamation of metals and metal compounds R5: Recycling/ reclamation of other inorganic compounds	Treatment operations shall be limited to: - Treatment consisting only of sorting, dismantling, separation and grading of waste into different components for recovery. Treatment of WEEE: - Must be carried out in areas provided with a weatherproof covering where appropriate; - Must be carried out on an impermeable surface with sealed drainage with provision of spillage collection facilities and, where appropriate, decanters and cleanser degreasers - There shall be no de-gassing of equipment containing ozone depleting substances - disassembled spare parts containing liquids shall be stored in appropriate containers. Storage of WEEE: - WEEE, disassembled spare parts, components or residues must be stored on an impermeable surface with sealed drainage with provision of spillage collection facilities and, where appropriate, decanters and cleanser degreasers; - WEEE, disassembled spare parts, components or residues must be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate; - disassembled spare parts containing liquids shall be stored in appropriate containers; - Batteries, PCBs/PCTs containing capacitors and other hazardous wastes must be stored in dedicated, labelled appropriate containers; - Equipment containing ozone depletion substances shall be stored in a manner that will prevent the release of such substances; the number of units in any stack shall not exceed 2; the overall height of any stack shall not exceed 3.5 metres. - Measuring equipment shall be provided to record the weight of untreated WEEE accepted at the facility and the weight of components and materials leaving the facility. Buildings, covered areas or containers must meet the following requirements: - buildings, covered areas, or containers must be designed, constructed and maintained to prevent ingress of rain and surface water; - rain and uncontaminated surface water must be kept separate from contaminated water and other liquids; - containers must be stored on an impermeable surface with sealed drainage. Maximum storage time of 1 year prior to disposal or 3 years prior to recovery. Waste types suitable for acceptance are limited to those specified in Table S2.5.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application, EPR/YP3735SS/A001	The response to questions 2.1 and 2.2 on pages 29 to 55 of Application.	22/04/05
Application EPR/YP3735SS/V004 & EPR/PP3892CL/V005	Part C3 of the application documents and supporting document “EPR/YP3735SS/V004 – Minor Technical Change to Permits PP3892CL and YP3735SS to combine both permits under a single permit.”	15/05/17
Additional information received	Updated document, “EPR/YP3735SS/V004 – Minor Technical Change to Permits PP3892CL and YP3735SS to combine both permits under a single permit.” Updated “Annex A- List of EWC’s” to include justifications for additional EWC Codes.	22/08/17
Additional information received (e-mail)	Further information involving: - expected quantities of 19 10 & 19 12 EWC code wastes - handling of potentially dusty wastes - handling/treatment of EWC wastes 15 02 02* - source of packaging wastes - shredding capacity and operation - handling and repacking of domestic appliances.	18/09/17

Table S1.3 Substances, preparations and components to be removed from separately collected WEEE
• Capacitors containing polychlorinated biphenyls in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) • Mercury-containing components, such as switches or backlighting lamps • Batteries • Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres • Toner cartridges, liquid and paste, as well as colour toner • Plastic containing brominated flame retardants • Asbestos waste and components which contain asbestos • Cathode ray tubes • Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC) • Gas discharge lamps • Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps • External electric cables • Components containing refractory ceramic fibres as described in REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Table S1.3 Substances, preparations and components to be removed from separately collected WEEE	
• Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation • Electrolyte capacitors containing “substances of concern” (height > 25mm, diameter > 25mm or proportionately similar volume)	

Table S1.4 Specified Treatment Methods for separately collected components of WEEE	
Component	Specified Treatment
Cathode ray tubes	The fluorescent coating shall be removed
Gas discharge lamps	The mercury shall be removed

Table S1.5 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator shall submit to the Environment Agency a written management system. The management system must ensure that all Installation Activities (reference A1 – A9 in Table S1.1) are undertaken in accordance with Best Available Techniques. The operator shall implement the management system in accordance with the Environment Agency’s written approval.	17/05/18
IC2	The operator shall submit to the Environment Agency a written description of the operating techniques employed in the Installation and Waste Operations within consolidated Permit, EPR/YP3735SS/V004. The description shall address requirements of appropriate current sector guidance notes such as S5.06, Guidance for the recovery and disposal of hazardous and non-hazardous waste. Once agreed with the Environment Agency, these Operating Techniques will supercede those detailed in Table S1.2.	17/05/18

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Liquid Nitrogen	--
Liquid Oxygen	--
Vacuum Pump Oil	--
Glycol	--
Activated carbon	--

Table S2.2 Permitted Waste types and quantities for mercury recovery facility (AR1)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: - Consisting solely or mainly of dusts, powders or loose fibres - Containing ozone-depleting substances
Waste Code	Description
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 07	wastes from natural gas purification and transportation
05 07 01*	wastes containing mercury
10	WASTES FROM THERMAL PROCESSES
10 14	waste from crematoria
10 14 01*	waste from gas cleaning containing mercury
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 08*	components containing mercury
16 02	wastes from electrical and electronic equipment
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
16 03	off-specification batches and unused products

Table S2.2 Permitted Waste types and quantities for mercury recovery facility (AR1)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances
Waste Code	Description
16 03 07*	metallic mercury
16 06	batteries and accumulators
16 06 03*	mercury-containing batteries
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 09	other construction and demolition wastes
17 09 01*	construction and demolition wastes containing mercury
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 10*	amalgam waste from dental care
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 10	wastes from shredding of metal-containing wastes
19 10 03*	fluff-light fraction and dust containing hazardous substances
19 10 05*	other fractions containing hazardous substances
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of waste other than those mentioned in 19 12 11
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 21*	fluorescent tubes and other mercury-containing waste

Table S2.3 Permitted Waste types and quantities for hazardous waste treatment (AR2) & hazardous waste storage facility (AR4)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: - Consisting solely or mainly of dusts, powders or loose fibres - Containing ozone-depleting substances
Waste Code	Description
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 07	wastes from natural gas purification and transportation
05 07 01*	wastes containing mercury
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 11*	single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
10	WASTES FROM THERMAL PROCESSES
10 14	waste from crematoria
10 14 01*	waste from gas cleaning containing mercury
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 08*	components containing mercury
16 02	wastes from electrical and electronic equipment
16 02 09*	transformers and capacitors containing PCBs
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
16 06	batteries and accumulators

Table S2.3 Permitted Waste types and quantities for hazardous waste treatment (AR2) & hazardous waste storage facility (AR4)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances
Waste Code	Description
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 09	other construction and demolition wastes
17 09 01*	construction and demolition wastes containing mercury
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 10*	amalgam waste from dental care
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 10	wastes from shredding of metal-containing wastes
19 10 03*	fluff-light fraction and dust containing hazardous substances
19 10 05*	other fractions containing hazardous substances
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

Table S2.4 Permitted Waste types and quantities for hazardous waste repacking for recovery (AR3)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres
Waste Code	Description
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 11*	single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
15 02	Absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 08*	components containing mercury
16 02	wastes from electrical and electronic equipment
16 02 09*	transformers and capacitors containing PCBs
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
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 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances

Table S2.4 Permitted Waste types and quantities for hazardous waste repacking for recovery (AR3)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres
Waste Code	Description
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

Table S2.5 Permitted Waste types and quantities for WEEE authorised treatment facility (AR10)	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres
Waste Code	Description
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 (As indicated on Drawing Number MRL/KP17/OLS/001 submitted in Application)	Mercury and its compounds (as Hg)	Combined emissions from the 5000R, 5000R PLUS and Superior Distiller	0.02 mg/m ³	-	Every 6 Months	BS EN 14385:2004 & MID or as agreed in writing with the Environment Agency.
A1 (As indicated on Drawing Number MRL/KP17/OLS/001 submitted in Application)	Cadmium and its compounds (as Cd)	Combined emissions from the 5000R, 5000R PLUS and Superior Distiller	0.05 mg/m ³	-	Every 6 Months	BS EN 14385:2004 & MID or as agreed in writing with the Environment Agency.
A1 (As indicated on Drawing Number MRL/KP17/OLS/001 submitted in Application)	Particulates	Combined emissions from the 5000R, 5000R PLUS and Superior Distiller	3.0 mg/m ³	-	Every 6 Months	BS EN 13284-1:2002 or as agreed in writing with the Environment Agency.
A1 (As indicated on Drawing Number MRL/KP17/OLS/001 submitted in Application)	Gas Flow Rate (m ³ /s)	Combined emissions from the 5000R, 5000R PLUS and Superior Distiller	No limit	-	Every 6 Months	BS EN 16911-1:2013 or as agreed in writing with the Environment Agency.
A1 (As indicated on Drawing Number MRL/KP17/OLS/001 submitted in Application)	Drum mercury absorbers monitoring	Combined emissions from the 5000R, 5000R PLUS and Superior Distiller	No limit.	-	Daily	To undertake daily mercury analyser monitoring at emission point A1 as described in Section 2.10 of Application, or an alternative technique agreed with the Environment Agency, to indicate any fluctuations in concentration of mercury in flue.

Table S3.2 Annual limits			
Substance	Medium	Limit	Monitoring standard or method
Mercury	Air	0.1kg	Calculation based on average concentrations of mercury and average gas flow rates (as required in Table S3.1)

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Distilled phosphor powder	Quantity of mercury (mg/kg)	Every 2 months	CVAFS (cold vapour atomic fluorescence spectroscopy) unless agreed in writing by the Environment Agency.	-
Glass cullet	Quantity of mercury (mg/kg)	Every 2 months	CVAFS (cold vapour atomic fluorescence spectroscopy) unless agreed in writing by the Environment Agency.	-

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
Mercury (mg/m ³)	A1	Every 6 months.	1 January, 1 July
Cadmium (mg/m ³)	A1	Every 6 months.	1 January, 1 July
Particulates (mg/m ³)	A1	Every 6 months.	1 January, 1 July
Flow (mg/m ³)	A1	Every 6 months.	1 January, 1 July
Mercury (g/year)	A1	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
WEEE processed	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Water usage	Annually	m ³ /tonne of recovered mercury
Energy usage	Annually	MWh
Energy usage	Annually	MWh/tonne of recovered mercury
Waste disposal and/or recovery	Annually	tonnes
Mercury content in the distilled phosphor powder	Every 6 months	mg/kg
Mercury content on glass cullet	Every 6 months	mg/kg
Quantity of distilled phosphor powder landfilled (tonnes/year)	Annually	tonnes
Quantity of glass cullet disposed of and/or recovered (tonnes/year)	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	17/11/17
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	17/11/17
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	17/11/17
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	17/11/17

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Waste returns	E-waste returns	--

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 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.

“best available treatment, recovery and recycling techniques” shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled ‘Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE)’; and any revision to or replacement of it.

“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.

“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 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.

“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.

“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.

“granulating” means granulated to a very small size with metal/non-metal separation by air classification and flotation.

“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.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“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.

“ozone-depleting substances” “ODS” means “controlled substances” contained in refrigeration, air-conditioning and heat pump equipment, equipment containing solvents, fire protection systems and fire extinguishers.

“pests” means Birds, Vermin and Insects.

“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.

“Refrigerant” means refrigerant gas contained in the compressor and cooling circuit of the refrigeration unit. Refrigerants include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), hydrocarbons (HCs) and ammonia.

“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.

“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 (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, 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

“WEEE” means waste electrical and electronic equipment.

“WEEE Directive” means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

“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.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Where the following terms appear in the waste code lists in Table S2.2 – S2.5, they have the meaning given below.

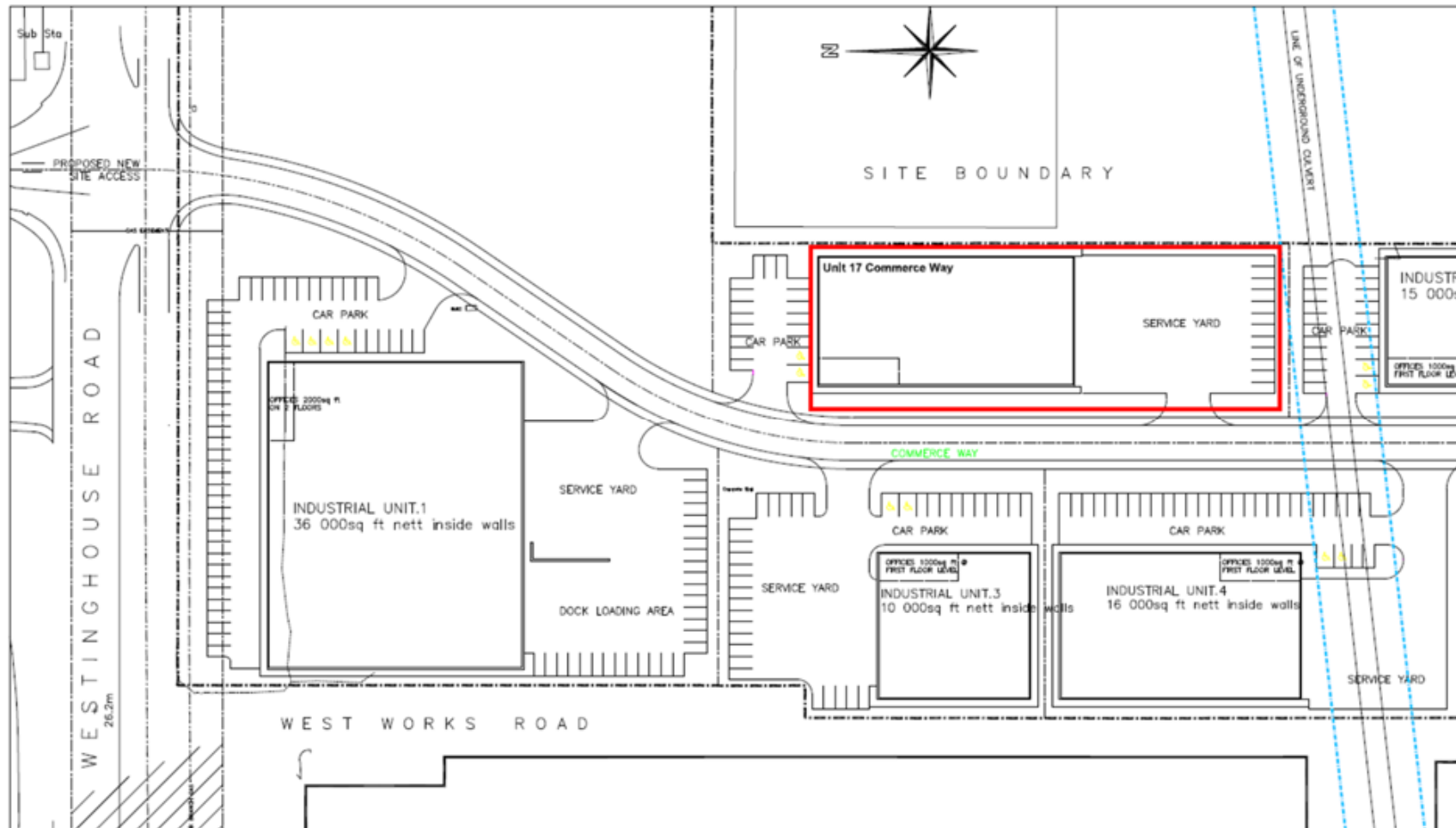
“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“polychlorinated biphenyls and polychlorinated terphenyls” (“PCBs”) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls;
- polychlorinated terphenyls;
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane; and
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

Schedule 7 – Site plan



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END OF PERMIT

Permit Reference Number: EPR/YP3735SS	Form Number: Air 1 (A1)(17/11/17)	Operator: Mercury Recycling Limited
Installation: Mercury Recovery, Trafford Park		

Reporting of Emissions to Air for the period.....to.....

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Dates and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A1	Mercury and its compounds (as Hg)						
A1	Cadmium and its compounds (as Cd)						
A1	Particulate						
A1	Flow (m ³ /s)						
A1	Mercury and its compounds (as Hg)						

[1] The result given is 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 is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) – {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

Operator comments:

Signed: _____ Date: _____
(authorised to sign as representative of the Operator)

Permit Reference Number: EPR/YP3735SS	Form Number: Water Usage 1	Operator: Mercury Recycling Limited
Installation: Mercury Recovery, Trafford Park	(WU1) (17/11/17)	

Reporting of Water Usage for the year.....

<i>Annual Production / Treatment</i>		
Quantity of mercury recovered:		tonnes
Quantity of GDL glass recovered:		tonnes

Water Source	Usag e	Specific Usage (m³/t)	Trends in Water Usage				
			Year	Parameter			
				Named Water Source	Total Water Usage	Water / tonne of mercury recovered	Water / tonne of recovered GDL glass
				Mains	m³		
Mains Water				Mains	m³		
				Mains	m³		
				Mains	m³		
				Mains	m³		
				Mains	m³		
				Mains	m³		
				Mains	m³		
				Mains	m³		
TOTAL WATER USAGE				Mains	m³		

Operator comments:

Signed: _____
 (authorised to sign as representative of the
 Operator)

Date: _____

Permit Reference Number: EPR/YP3735SS	Form Number: Energy Usage 1 (E1) (17/11/17)	Operator: Mercury Recycling Limited
Installation: Mercury Recovery, Trafford Park		

Reporting of Energy Usage for the year.....

Energy Source	Energy Usage		CO ₂ Produced (Tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Gas			
TOTAL			

* Conversion factor for delivered electricity to primary energy - 2.7

Trends in Energy Usage				
Year	Parameter			
	Primary Energy Usage	CO ₂ Produced	CO ₂ per tonne of recovered mercury	CO ₂ per tonne of recovered GDL Glass

Mercury
Recovered:.....

GDL Glass Recovered:....

Operator comments:

Signed: _____
(authorised to sign as representative of the Operator)

Date: _____

Permit Reference Number: EPR/YP3735SS	Form Number: Performance 1 (P1) (17/11/17)	Operator: Mercury Recycling Limited
Installation: Mercury Recovery, Trafford Park		

Reporting of Mercury Concentrations in Wastes for the period.....to.....

Substance / Parameter	Results ^[1]						Test Method ^[2]	Sample Dates and Times ^[3]	Accreditation / Certification ^[4]
Mercury content in distilled phosphor powder (mg/kg)									
Mercury content in glass cullet (mg/kg)									

[1] The result given is 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 is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

Operator comments:

Signed: _____ Date: _____
 (authorised to sign as representative of the Operator)

Permit Reference Number: EPR/YP3735SS	Form Number: Performance 3	Operator: Mercury Recycling Limited
Installation: Mercury Recovery, Trafford Park	(P3) (17/11/17)	

Reporting of Performance Indicators for the year.....

<i>Annual Production / Treatment</i>		
Quantity of mercury recovered:		tonnes
Quantity of GDL glass recovered:		tonnes

Parameter	Annual Average		Units	Trends in Environmental Performance			
				Parameter			
				Year	Water usage/m ³ per tonne of recovered mercury	kW/tonne of recovered mercury	Water usage/m ³ per tonne of recovered GDL glass
							kW/tonne of recovered GDL glass
Potable Water Use			m ³				
Energy Consumption			MWh (Primary)				

Operator comments:

Signed: _____
(authorised to sign as representative of the Operator)

Date: _____