

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Veolia ES (UK) Limited
Empire Treatment Works
Stubbers Green Road
Aldridge
Walsall
West Midlands
WS9 8BL

Variation application number

EPR/XP3037SE/V008

Permit number

EPR/XP3037SE

Empire Treatment Works

Permit number EPR/XP3037SE

Introductory note

This introductory note does not form a part of the notice

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

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

Permit Variation – EPR/XP3037SE/V008

This variation adds a new listed activity, A9, for an additional 25m³ tank (SP4) for the blending of packaged liquid wastes prior to treatment within the main treatment plant. This more robust process vessel will be able to blend heavier, more viscous materials and stronger acids. The tank will be connected to the existing extraction system.

The main features of the installation remain the same and are as follows:

Empire Treatment Works is an Installation operated by Veolia ES (UK) Limited (formally Onyx UK Limited and Veolia ES (Onyx) Limited) at Stubbers Green Road, Aldridge, West Midlands (SK 0430 0230). The site has operated under waste management licences since the 1970's.

The installation is approximately 2km north of Aldridge and is situated adjacent to the Daw End Branch of the Wyrley and Essington Canal. The surrounding area is a mixture of residential, commercial and industrial developments. Extensive clay extraction is ongoing north and south of the installation for brick making, and neighbouring former clay pits have been extensively used for landfilling. Historically coal mining has been undertaken in the area, and underground strata have formerly been used for waste disposal, though this practice has been discontinued.

The nearest residential properties are to the north east and east of the site in Walsall Wood and Leighswood, though occupied houseboats are present in the canal basin to the east of the site. There are four Sites of Special Scientific Interest (SSSIs) within 2km of the installation: Swan Pool and the Swag, Stubbers Green Bog, Jockey Field, and Daw End Railway Cutting and a Special Area of Conservation within 10km of the installation: Cannock Extension Canal.

The main activity carried out at the site is the treatment of hazardous and non-hazardous wastes by neutralisation, settlement and filtration, with the resulting solid waste residue disposed of to landfill and the liquid effluent disposed of to sewer. Ancillary operations on the site include associated waste storage, oil/water separation, drum washing, crushing and shedding and a road tanker barrel washout facility.

Other than the emissions to landfill and sewer mentioned above, the main potential emissions from the site are gases arising from waste treatment and fugitive emissions and spillages to ground from waste handling, accidents etc. In addition, the Permit contains conditions, which control noise, dust, or odours that may potentially arise from operation of the site.

Waste is treated in a range of treatment vessels and equipment, which are enclosed and vented via chemical scrubbers, which remove gases released by the treatment processes.

The site is surfaced with hardstanding and is designed to contain any spillages. Drainage arising from the site is treated through the treatment process prior to discharge to foul sewer.

The Operator uses a system of written operating procedures to ensure that activities at the site are controlled to prevent pollution. Operations are controlled via an Environmental Management System (EMS) accredited to ISO 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 received XP3037SE	Duly made 22/09/05	Application for hazardous and non-hazardous waste treatment.
Schedule 4 Notice	25/04/06	Notice dated 22/03/06.
Schedule 4 Notice	12/05/06	Notice dated 13/04/06.
Additional information received	27/04/06	Request dated 18/04/06.
	08/05/06	Request dated 05/05/06.
	05/09/06	Requested 30/08/06.
	26/10/06 27/10/06	Request dated 23/10/06.
Permit determined XP3037SE	24/11/06	Permit issued to Veolia ES (UK) Ltd. EPR reference EPR/XP3037SE/A001
Application for variation YP3335XQ	Duly made 08/01/08	Variation to authorise the re-packaging of laboratory smalls and bulking of wastes
Variation determined YP3335XQ	20/03/08	Varied permit issued. EPR reference EPR/XP3037SE/V002
Application EPR/XP3037SE/V003	Duly made 04/08/09	Variation includes: <ul style="list-style-type: none"> • addition of new packaged waste reception and storage area; • extension of installation boundary; • new waste codes and new abatement equipment; • removal of cyanide treatment plant; • removal of the oil-water treatment plant and use of the area for repackaging.
Variation determined EPR/XP3037SE/V003	22/02/10	Varied permit issued.
Application EPR/XP3037SE/V004	24/12/10	Variation to add 2 EWC codes to the list of permitted wastes.
Variation determined EPR/XP3037SE/V004	26/01/11	Varied permit issued.
Agency variation determined EPR/XP3037SE/V005	13/12/13	Agency variation to implement the changes introduced by IED.
Application EPR/XP3037SE/V006 (variation and consolidation)	Duly made 13/10/14	Application to vary and update the permit to modern conditions.
Additional information received	17/12/14	Partial response to schedule 5 notice dated 04/12/2014.
	19/01/15	Full response to schedule 5 notice dated 04/12/2014.

Status log of the permit		
Description	Date	Comments
	10/02/15	Response to schedule 5 notice dated 03/02/2015.
	12/02/15	Revised H1 screening received.
	03/03/15	Response to questions on wastes codes and revised EWC codes received.
Variation determined EPR/XP3037SE	05/03/15	Varied and consolidated permit issued in modern condition format.
Application EPR/XP3037SE/V007 (variation and consolidation)	Duly made 29/11/16	Application to vary and update the permit to modern conditions.
Variation determined EPR/XP3037SE	17/03/17	Varied and consolidated permit issued in modern condition format.
Application EPR/XP3037SE/V008 (variation and consolidation)	Duly made 07/01/19	Application to add an additional tank for the blending of packaged liquid wastes prior to treatment within the main tank.
Variation determined EPR/XP3037SE Billing reference: NP3239QF	19/03/19	Varied 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/XP3037SE

Issued to

Veolia ES (UK) Limited (“the operator”)

whose registered office is

210 Pentonville Road

London

N1 9JY

company registration number **02481991**

to operate a regulated facility at

Empire Treatment Works

Stubbers Green Road

Aldridge

Walsall

West Midlands

WS9 8BL

to the extent set out in the schedules.

The notice shall take effect from 19/03/2019.

Name	Date
David Griffiths	19/03/2019

Authorised on behalf of the Environment Agency

Schedule 1

Only conditions listed below have been varied by the consolidated permit EPR/XP3037SE.

The following conditions were varied as a result of an Environment Agency initiated variation:

- Conditions 3.7.1 and 3.7.2 have been added to allow a fire prevention plan to be requested and incorporated into the permit to cover the storage of non-hazardous combustible waste types, if deemed necessary.
- Condition 4.3.4 has been corrected to add in a section of wording that was previously omitted.
- Schedule 6 as referenced in condition 4.4.1 has had interpretations updated to reflect modern legislation.
- Condition 4.4.2 has been updated to the current standard version of that condition.

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

- Table S1.1 as referenced in conditions 2.1.1 and 2.3.7 has been amended to add blending activity A9 and to renumber activities A10 to A14.
- Table S1.2 as referenced in conditions 2.3.1 and 2.3.2 has been updated to add in new operating techniques for tank SP4.
- Table S2.2 as referenced in condition 2.3.4(a) has been updated to include reference to activity A9 in column 2.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/XP3037SE

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3037SE/V008 authorising,

Veolia ES (UK) Limited (“the operator”),

whose registered office is

210 Pentonville Road

London

N1 9JY

company registration number **02481991**

to operate an installation at

Empire Treatment Works

Stubbers Green Road

Aldridge

Walsall

West Midlands

WS9 8BL

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

Name	Date
David Griffiths	19/03/2019

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 and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; 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, table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

Hazardous waste storage and treatment

- 2.3.7 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.

WEEE storage

- 2.3.8 The storage (including temporary storage) of WEEE shall be carried out in accordance with the technical requirements of Annex VIII of the WEEE Directive.

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.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1, table S1.4 shall not commence until the measures specified in that table have been completed.

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, tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

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

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3; and
- (b) process monitoring specified in table S3.4.

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, S3.2 and S3.3 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.

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 4, table S4.2; and

- (c) the performance parameters set out in schedule 4, table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4, table S4.1;
 - (b) for the reporting periods specified in schedule 4, table S4.1 and using the forms specified in schedule 4, table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i) or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	S5.6 A1(a)	Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes. (D15, R13)	<p>From receipt of waste to introduction to treatment processes or off site transfer for disposal and recovery.</p> <p>Storage for recovery limited to containerised waste.</p> <p>Containerised wastes stored in the areas as detailed on drawing emp/ppcvar/040 and the waste transfer station.</p> <p>Bulk wastes stored in vessels AR3, AR4, AR5, AR6, AR7, AR8, Lime Silo 1, Lime Silo 2, PFT19, Jumbo, S1, S2, S3, S4, S5, S6.</p> <p>Containerised wastes types are as specified in schedule 2, table S2.2, column 1.</p> <p>Waste types for bulk storage are specified in schedule 2, table S2.2 column 1 with one tick (✓). Waste codes with 2 ticks (✓✓) are not suitable for bulk storage.</p> <p>From receipt of oil waste to offsite transfer of oil waste (R13 only).</p> <p>Oil wastes stored in Vessels RT1, RT2.</p> <p>Brake fluids/antifreeze not contaminated with oil shall be stored in separate containers.</p> <p>Waste types for oil storage as specified in schedule 2, table S2.2, column 5.</p>
A2	S5.3 A1(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D9).	<p>Consisting of pH adjustment, redox, and settlement (including addition of coagulants and flocculants).</p> <p>Vessels SP1, SP2, SP3, SP5, Jumbo, PFT19.</p> <p>Waste types as specified in schedule 2, table S2.2, column 2.</p> <p>Including production of lime slurry in Lime Tanks A and B.</p>

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
A3	S5.3 A1(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D9).	Consisting acidification, mixing and settlement (Sludge conditioning). Vessels T1, T2, T3, T4, Jumbo, PFT19. Waste types as specified in schedule 2, table S2.2, column 3.
A4	S5.3 A1(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D9).	Consisting of acidification and mixing. APC mixers 1, 2, 3. Waste types as specified in schedule 2, table S2.2, column 3.
A5	S5.3 A1(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D9).	Filtration of wastes. Filter presses in Press Building. Waste types as specified in schedule 2, table S2.2, column 4 and wastes produced by treatment process under activity A2.
A6	S5.3 A1(a)(iv)	Re-packaging of hazardous wastes with a capacity exceeding 10 tonnes per day (D14).	Unpacking, sorting and repackaging of laboratory smalls wastes within the processing building shown on plan emp/ppc/04d. Waste types as specified in schedule 2, table S2.2, column 8 consisting of substances in containers of less than 5 litre capacity.
A7	S5.3 A1(a)(ii) & S5.3 A1(a)(iv) (Aggregation of capacities)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day (in aggregate) involving: <ul style="list-style-type: none"> Physico-chemical treatment (D9, R4). Repackaging prior to submission for disposal (D14). 	Treatment limited to: <ul style="list-style-type: none"> treatment of gases from cylinders by absorption, adsorption, dissolution and neutralization with limit not exceeding 3 tonnes of cylinders per day. Maximum of 300 tonnes of cylinders per annum. Cylinder treatment shall be carried out in accordance with pre-operational conditions PO1, PO2, PO3 and PO4, table S1.4. washing of containers. crushing and shredding of washed containers arising from storage and treatment operations. crushing and shredding of containers shall be limited to less than 5 tonnes per day. unpacking, sorting and repackaging of non-laboratory small wastes within designated locations shown on plan emp/ppc/04d. repackaging of waste shall be limited to less than 7 tonnes per day.

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
			Waste types for cylinder treatment are specified in schedule 2, table S2.2, column 6. Waste types for crushing and shredding are specified in schedule 2, table S2.2, column 7.
A8	S5.3 A1(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D9).	<p>Treatment via the De-Pack system limited to:</p> <ul style="list-style-type: none"> • maximum of 999 tonnes of permitted wastes treated per annum. • shredding and washing treatment only. • shredding and washing of containers shall be limited to 10 tonnes per day. • shredding and washing of wastes within designated locations shown on plan Drawing D_PACK_009A. <p>Waste types for shredding and washing are specified in schedule 2, table S2.2, column 9.</p> <p>Hazardous wastes must be treated in separate batches from non-hazardous wastes. The De-pack system shall be cleaned and cleared between hazardous and non-hazardous batches.</p> <p>Only hazardous wastes with the hazardous properties HP4, HP5, and HP14 shall be treated in the De-pack system.</p> <p>Hazardous wastes with HP6 hazardous properties shall only be processed in the De-pack system with prior written agreement from the Environment Agency.</p> <p>No wastes contained in pressurised containers shall be processed in the De-pack system.</p>
A9	S5.3 A1(a)(iii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving blending (D13).	<p>Pre-treatment via blending prior to submission to activity A2.</p> <p>Vessel SP4.</p> <p>Waste types as specified in schedule 2, table S2.2, column 2.</p>
Directly Associated Activity			
A10	Tanker washing	Washing of heavy sludge/residues from tanker after delivery of wastes.	Tanker wash sump.
A11	Waste storage	Storage of non-hazardous wastes prior to submission to	<p>From receipt of waste to introduction to treatment processes.</p> <p>Containerised wastes stored in the areas detailed on drawing emp/ppcvar/040.</p>

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
		treatment on site (D15).	Bulk wastes stored in vessels AR3, AR4, AR5, AR6, AR7, AR8, Lime Silo 1, Lime Silo 2, PFT19, Jumbo, S1, S2, S3, S4, S5, S6, T1, T2, T3, T4. Non-hazardous waste types as specified in schedule 2, table S2.2.
A12	Waste storage	Storage of solid wastes arising from treatment operations prior to offsite disposal or recovery (D15, R13).	Wastes arising from treatment processes. Stored in Filter cake bunkers as detailed on drawing emp/ppcvar/040.
A13	Waste storage	Storage of final site effluent prior to discharge to sewer (D9).	Final effluent stored in 50 tonne capacity tanks EFS1, EFS2, EFS3, EFS4, EFS5, EFS6, EFS7 and EFS8. Effluent arising from site treatment operations and surface water drainage only.
A14	N/A	Surface water storage	Storage of surface water in vessels CL1 and CL2.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The responses to sections 2.1 and 2.2 of the application, excluding B1.1.1, B2.1.1, B2.1.21 (File 2 Item 2, Item 3 main plant item list only), B2.2.4 (detail relating to the cyanide plant scrubber only), Total Site Plan (drawing No. emp/ppc/02), Site Location Plan (drawing No. emp/ppc/08).	22/09/05
Response to Schedule 4 Notice dated 22/03/2006	Answers to questions 1 to 41, excluding Revised Total Site Plan (drawing No. emp/ppc/02), response to Question 9.	25/04/06
Response to Schedule 4 Notice dated 13/04/2006	Answers to questions 1, 2 and 3.	12/05/06
Request for additional information dated 05/05/2006	Revised Drawings emp/ppc/31A and emp/ppc/33A	08/05/06
Request for additional information dated 30/08/2006	Revised Installation boundary details including Site Boundary drawing emp/ppc/02b, redundant tank information and amendments concerning the cyanide scrubber.	05/09/06
Request for additional information dated 23/10/2006	Revised section B1.1.1, Revised B2.1.23.	26/10/06, 27/10/06
Application for variation YP3335XQ	All.	Duly made 20/03/08
Application for variation EPR/XP3037SE/V003	All, including amended drawing emp/ppcvar/040 showing locations of new emission points, new transfer station and	Duly made 04/08/09

Table S1.2 Operating techniques		
Description	Parts	Date Received
	Annex 1 – Process Hazard Review, Annex 2 – Additional EWC Codes to be added to the Permitted Waste List.	
Application EPR/XP3037SE/V006	<p>Management System Information and Non-Technical Summary referenced respectively in Sections 3d and 5c of the application form Part C2.</p> <p>Annex 1 - Working Instruction for the Management of Cylinders, referenced in the document, Non-technical Summary Description of Variation Applied for.</p> <p>Technical Standards and General Requirements referenced respectively in sections 3a and 3b of the application form Part C3.</p> <p>Annex 1 - Process Hazard Review Output, referenced in the document, General Requirements.</p> <p>Response to sections 4a, 4b and 6 of the application form Part C3 and supporting documents referenced Air Emissions Monitoring Programme, Air Sampling Details, Changes to Energy Consumption and Raw Material Usage.</p>	13/10/14
Response to Schedule 5 Notice dated 04/12/14	<p>Response to:</p> <ul style="list-style-type: none"> • question 2 - effluent storage; • question 4 - management of cylinders; • question 5 - removal of cylinder handling from laboratory smalls area and • question 7 - repackaging of wastes. 	17/12/14
	<p>Response to:</p> <ul style="list-style-type: none"> • question 3 - H1 screening and • further questions on treatment capacities for shredding, crushing, repackaging and cylinder processing activities. 	19/01/15
Application EPR/XP3037SE/V007	<p>Management System Information and Non-Technical Summary referenced respectively in Sections 3d and 5c of the application form Part C2.</p> <p>Response to sections 2, 3a, 3b, 6 and Appendix 5 of the application form Part C3 and supporting documents referenced Air Emissions, Operating Techniques, Changes to Energy Consumption and Raw Material Usage.</p>	19/07/16 and 29/11/16
Application EPR/XP3037SE/V008	Empire Treatment Works Supporting Statement – September 2018.	02/10/18

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP1	The Operator shall produce and implement written procedures (and any amendments to them) that accord with section 2.1.1 of Sector Guidance Note S5.06, to assess waste prior to acceptance on the site.	Completed
IP2	The Operator shall produce and implement written procedures (and any amendments to them) that accord with section 2.1.2 of Sector Guidance Note S5.06, to cover: load arrival; load inspection; sampling methodology for wastes, and records.	Completed
IP3	The Operator shall produce and implement written procedures (and any amendments to them) that accord with section 2.1.3 of Sector Guidance Note S5.06, to cover: segregation (including compatibility) waste storage;	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	emergency storage; compatibility when bulking; storage of materials with special storage requirements.	
IP4	The Operator shall produce and implement written procedures (and any amendments to them) that accord with section 2.1.4 of Sector Guidance Note S5.06, to cover compatibility testing prior to submission to treatment.	Completed
IP5	<p>The Operator shall submit to the Agency for approval written proposals, including timescales, for the installation of infrastructure required for the waste reception, quarantine and waste storage areas that accord with Sections 2.1.3 and 2.2.5 of Sector Guidance Note S5.06. In particular the operator's proposals shall:</p> <ul style="list-style-type: none"> • ensure that storage area drainage infrastructure is sufficient to contain contaminated run-off and prevent drainage from incompatible wastes from coming into contact with each other. • provide a perimeter barrier (or equivalent) to the flammable drum storage area to prevent stored waste packages falling outside the perimeter containment bund. • provide appropriate storage facilities for gas cylinders and aerosols. • provide appropriate storage for facilities for drum storage pending transfer and empty drums awaiting crushing and shredding, including containment and vehicle collision protection measures. • assess whether improved fire separation measures are required between the flammables storage area and the cyanide storage bay. <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Completed
IP6	<p>The Operator shall submit to the Agency for approval written proposals, including timescales, for any changes necessary to all waste storage and treatment vessels and associated containment bunds required to achieve compliance with the relevant standards in Sections 2.1.3, 2.1.4 and 2.2.5 of Sector Guidance Note 5.06.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Completed
IP7	The Operator shall inspect the site perimeter fencing and gates and ensure that any defects are repaired so as to ensure the site is secure.	Completed
IP8	<p>The Operator shall submit to the Agency for approval written proposals, including timescales, for the installation of automatic fault warning alarms for the chemical absorption scrubbers ASS1, SPS1, JTS1, APCSS1 and APCMS1.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Completed
IP9	<p>The Operator shall submit to the Agency a report on the results of a monitoring exercise to characterise the releases of the substances set out below from the emission points listed. Releases shall be assessed, on a minimum of four separate occasions, using methodology set out in Agency Guidance Note M2: Monitoring of Stack Emissions to Air.</p> <p>Emission point A1: ammonia, hydrogen cyanide, chlorine. Emission point: A2: acid gases, nitrogen oxides. Emission points A3, A4, A5, A6: acid gases, nitrogen oxides, ammonia, hydrogen sulphide and total VOCs.</p>	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>The report shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> • a summary of the monitoring results; • comparison with the benchmark figures for releases specified in Section 3.2 of the Agency Guidance Note IPPC S4.03; • an impact assessment for the emissions, in accordance with the H1 methodology; <p>proposals and a timetable for improvements, where emissions exceed the specified benchmark figure.</p>	
IP10	<p>A written procedure shall be submitted to the Agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. Where MCERTS does not apply, the Operator shall review current monitoring procedures against the relevant standards in section 2.10 of Sector Guidance Note 5.06. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure.</p> <p>The procedure shall be implemented by the operator from the date of approval in writing by the Agency.</p>	Completed
IP11	<p>Unless stated otherwise in the permit, the Operator shall implement the improvement proposals in Section B9 of the application to the timescales identified in that section, unless otherwise agreed by the Agency. The Operator shall summarise the progress of these improvements on a quarterly basis and report these to the Agency.</p>	Completed
IP12	<p>The Operator shall undertake a noise assessment in accordance with the procedures given in BS4142: 1997 (Rating industrial noise affecting mixed residential and industrial areas) and BS7445: 2003 (Description and measurement of environmental noise) or other methodology as agreed with the Agency. A report of the assessment shall be submitted in writing to the Agency.</p> <p>The assessment shall identify all relevant sources of noise on site and consider the potential for noise impact on identified sensitive receptors during daytime, night time and weekends. Any noise source(s) identified as exhibiting tonal contributions shall be quantified by means of frequency analysis. Noise measurements shall be undertaken by an experienced and suitably qualified person.</p> <p>The report shall include a noise management plan containing details of required noise mitigation measures, associated management, inspection and maintenance regimes and proposed noise monitoring. Suitable time-scales for implementation and review shall also be included.</p>	Completed
IP13	<p>The Operator shall produce a Site Surface Water and Effluent Management Plan for the installation. The plan shall be submitted in writing to the Agency.</p> <p>The plan shall:</p> <ul style="list-style-type: none"> • ensure that there is adequate storage for all site surface water and effluent generated by the site prior to discharge. Storage shall be in accordance the requirements of sections 2.2.4 and 2.2.5 of Sector Guidance Note S5.06. • specify a programme for the removal of liquid accumulations from bunded areas, so as to maintain the capacity of the bunds for emergencies. 	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> investigate the potential for collection and re-use or diversion from sewer of rainwater falling on uncontaminated areas within the site (e.g. from roofed areas). provide an assessment of the capacity of the site to retain fire fighting runoff in accordance with the methodology outlined in PPG18. <p>include inspection and maintenance procedures for the sewer discharge pipework, which ensure the integrity and capacity of the pipework.</p>	
IP14	<p>The Operator shall undertake monitoring of the final effluent discharge to sewer twice per month for 12 months for the following determinands to an appropriate limit of detection:</p> <p>Phenol; Pentachloro Phenol; 4 Chloro 3 Methyl Phenol; 2 Chloro Phenol; 3 Chloro Phenol; 4 Chloro Phenol; 2,4 Dichloro Phenol; Hydrogen Sulphide; Total Sulphide capable of producing Hydrogen Sulphide on acidification; Free Cyanide.</p> <p>A summary of the monitoring results shall be submitted in writing to the Agency.</p>	Completed
IP15	<p>The Operator shall install the infrastructure required to ensure that drums that are not able to be re-used are cleaned to facilitate recycling or recovery by other means that accord with Section 2.1.13 of Sector Guidance Note S5.06, December 2004.</p>	Completed
IP16	<p>The Operator shall install the infrastructure required to control emissions to air and water from drum crushing, shredding or cutting processes that accord with Section 2.1.13 of Sector Guidance Note S5.06, December 2004.</p>	Completed
IP17	<p>The Operator shall update the site closure plan with proposals for the removal of the redundant tanks within the installation.</p>	Completed
IP18	<p>The Operator shall submit to the Agency a risk assessment of the potential consequences of duct failure between the cyanide plant scrubber (CNS1) and the fan in its current location, compared to duct failure were the fan downstream of the scrubber. If the assessment indicates, a higher risk in its current configuration a timetable for improving any deficiencies identified by the risk assessment shall be provided.</p>	Completed
IP19	<p>The Operator shall submit to the Agency a report on the results of a monitoring exercise to characterise the releases of the substances set out below from the emission points listed. Releases shall be assessed, on a minimum of four separate occasions, using methodology set out in Agency Guidance Note M2: Monitoring of Stack Emissions to Air.</p> <p>Emission points A16 and A17: acid gases, nitrogen oxides, ammonia, hydrogen sulphide and total VOCs.</p> <p>The report shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> a summary of the monitoring results; comparison with the benchmark figures for releases specified in Section 3.2 of the Agency Guidance Note IPPC S4.03; 	Completed

Reference	Requirement	Date
	<ul style="list-style-type: none"> an impact assessment for the emissions, in accordance with the H1 methodology; proposals and a timetable for improvements, where emissions exceed the specified benchmark figure.	
IP20	The Operator shall update the site closure plan to include the proposed changes to the installation that are subject to variation application PP3535KU.	Completed
IP21	The operator shall submit to the Agency proposals for investigating any residual contamination in the scrubber used for the cyanide process. Upon agreement by the Agency, the Operator shall carry out the assessment, and provide a report detailing the results of this assessment and proposals to mitigate any contamination found. The proposals shall include timescales for implementation. Upon written Agency agreement, the operator shall carry out the mitigation measures.	Completed

Reference	Operation	Pre-operational measures
PO1	Cylinder processing as specified in table S1.1, A7.	At least 4 weeks prior to the start of operation the operator shall review and submit to the Environment Agency for approval the Working Instruction for the Management of Cylinders to include the proposed Cylinder Management Facility in accordance with sections 2.1.13, 2.1.9 and 3.11 of Sector Guidance Note 5.06. Any improvements identified shall be implemented prior to the facility becoming operational as approved by the Environment Agency.
PO2		At least 4 weeks prior to the start of operation the operator shall review and submit to the Environment Agency for approval the Emergency Plan and the Major Accident Prevention Policy (MAPP) for the site. Any improvements identified shall be implemented prior to the facility becoming operational as approved by the Environment Agency.
PO3		Within three months of the cylinder processing facility becoming operational the operator shall carry out benchmark testing of the scrubbing unit at the emission point A17 using standards specified in the Environment Agency Monitoring guidance notes, M2 - Monitoring of stack emissions to air, in order to demonstrate the scrubbing unit is operating to the required standard. A report on the testing shall be submitted to the Environment Agency within six months of the cylinder processing facility becoming operational.
PO4	Cylinder processing within the lab smalls area.	The operator shall review all risk assessments, management systems and procedures for accepting, storing and treating cylinders within the lab smalls area. This review shall demonstrate that appropriate measures for accident prevention and control of emissions are in place in line with measures contained in the sector guidance note IPPC S5.06. A report on the review shall be submitted to and approved by the Environment Agency. The processing of gas cylinders within the lab smalls area shall not be started until all the improvements identified by the operator and approved by the Environment Agency are implemented.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
Maximum quantity	Total annual input of wastes to the site for all operations shall not exceed 188,100 tonnes. Storage quantities shall not exceed the following: Containerised waste: 1000m ³ equivalent in containers Bulk acid storage: 324m ³ (AR3, AR4, AR5, AR6, AR7, AR8) Bulk storage: 760m ³ (PFT19, Jumbo, T1, T2, T3, T4) Bulk APC residues storage: 450m ³ (S1,S2, S3, S4, S5, S6) Bulk lime storage: 60m ³ (Lime Silos 1, 2) Bulk oil storage: 120m ³ (RT1, RT2) Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted	A1	A2 & A9	A3 & A4	A5	A1 oil	A7 Cylinder	A7 Crushing & shredding	A6	A8
Waste code	Description									
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS									
01 01	wastes from mineral excavation									
01 01 01	wastes from mineral metalliferous excavation		✓	✓						
01 01 02	wastes from mineral non-metalliferous excavation		✓	✓						
01 03	wastes from physical and chemical processing of metalliferous minerals									
01 03 04*	acid-generating tailings from processing of sulphide ore	✓								
01 03 05*	other tailings containing dangerous substances	✓								
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05		✓	✓						
01 03 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals	✓	✓	✓					✓	
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07		✓	✓					✓	
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07		✓	✓						

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
01 04	wastes from physical and chemical processing of non-metalliferous minerals									
01 04 07*	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals	✓	✓	✓	✓				✓	
01 04 09	waste sand and clays		✓	✓						
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07		✓	✓						
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07		✓	✓						
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11		✓	✓						
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07		✓	✓						
01 05	drilling muds and other drilling wastes									
01 05 04	freshwater drilling muds and wastes		✓	✓					✓	
01 05 05*	oil-containing drilling muds and wastes	✓				✓			✓	
01 05 06*	drilling muds and other drilling wastes containing dangerous substances	✓	✓	✓	✓				✓	
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06		✓	✓	✓				✓	
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06		✓	✓	✓				✓	
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING									
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing									
02 01 01	sludges from washing and cleaning		✓	✓					✓	
02 01 08*	agrochemical waste containing dangerous substances	✓✓							✓	
02 01 07	wastes from forestry		✓	✓					✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
02 01 09	agrochemical waste other than those mentioned in 02 01 08			✓					✓	
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin									
02 02 01	sludges from washing and cleaning		✓	✓						
02 02 04	sludges from on-site effluent treatment		✓	✓						
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation									
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation		✓	✓						
02 03 02	wastes from preserving agents		✓	✓						
02 03 04	materials unsuitable for consumption or processing		✓	✓					✓	
02 03 05	sludges from on-site effluent treatment		✓	✓					✓	
02 04	wastes from sugar processing									
02 04 01	soil from cleaning and washing beet		✓	✓						
02 04 02	off-specification calcium carbonate		✓	✓						
02 04 03	sludges from on-site effluent treatment		✓	✓					✓	
02 05	wastes from the dairy products industry									
02 05 01	materials unsuitable for consumption or processing			✓						
02 05 02	sludges from on-site effluent treatment		✓	✓					✓	
02 06	wastes from the baking and confectionery industry									
02 06 01	materials unsuitable for consumption or processing			✓						
02 06 02	wastes from preserving agents		✓	✓						
02 06 03	sludges from on-site effluent treatment		✓	✓					✓	
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials		✓	✓						
02 07 02	wastes from spirits distillation			✓					✓	
02 07 03	wastes from chemical treatment		✓	✓					✓	
02 07 04	materials unsuitable for consumption or processing		✓	✓						
02 07 05	sludges from on-site effluent treatment		✓	✓					✓	
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD									
03 01	wastes from wood processing and the production of panels and furniture									
03 01 04*	sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances	✓✓								
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04		✓	✓	✓					
03 02	wastes from wood preservation									
03 02 01*	non-halogenated organic wood preservatives	✓✓							✓	
03 02 02*	organochlorinated wood preservatives	✓✓							✓	
03 02 03*	organometallic wood preservatives	✓✓							✓	
03 02 04*	inorganic wood preservatives	✓	✓	✓					✓	
03 02 05*	other wood preservatives containing dangerous substances	✓	✓	✓					✓	
03 03	wastes from pulp, paper and cardboard production and processing									
03 03 02	green liquor sludge (from recovery of cooking liquor)		✓	✓						
03 03 05	de-inking sludges from paper recycling		✓	✓						
03 03 09	lime mud waste		✓	✓						
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation		✓	✓						

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10		✓	✓	✓				✓	
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES									
04 01	wastes from the leather and fur industry									
04 01 02	liming waste		✓	✓						
04 01 03*	degreasing wastes containing solvents without a liquid phase	✓✓							✓	
04 01 04	tanning liquor containing chromium		✓							
04 01 05	tanning liquor free of chromium		✓	✓						
04 01 06	sludges, in particular from on-site effluent treatment containing chromium		✓	✓					✓	
04 01 07	sludges, in particular from on-site effluent treatment free of chromium		✓	✓					✓	
04 02	wastes from the textile industry									
04 02 14*	wastes from finishing containing organic solvents	✓✓							✓	
04 02 15	wastes from finishing other than those mentioned in 04 02 14		✓	✓	✓					
04 02 16*	dyestuffs and pigments containing dangerous substances	✓	✓	✓					✓	
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16		✓	✓						
04 02 19*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓				✓	
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19		✓	✓	✓				✓	
04 02 21	wastes from unprocessed textile fibres		✓	✓						
04 02 22	wastes from processed textile fibres		✓	✓						
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL									
05 01	wastes from petroleum refining									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
05 01 02*	desalter sludges	✓	✓	✓	✓					
05 01 03*	tank bottom sludges	✓	✓	✓						
05 01 04*	acid alkyl sludges	✓	✓	✓						
05 01 05*	oil spills	✓				✓				
05 01 06*	oily sludges from maintenance operations of the plant or equipment	✓				✓			✓	
05 01 07*	acid tars	✓✓							✓	
05 01 08*	other tars	✓✓							✓	
05 01 09*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓				✓	
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09		✓	✓	✓				✓	
05 01 11*	wastes from cleaning of fuels with bases	✓	✓	✓		✓			✓	
05 01 12*	oil containing acids	✓✓							✓	
05 01 13	boiler feedwater sludges		✓	✓						
05 01 14	wastes from cooling columns		✓	✓						
05 01 15*	spent filter clays	✓	✓	✓	✓				✓	
05 06	wastes from the pyrolytic treatment of coal									
05 06 01*	acid tars	✓✓							✓	
05 06 03*	other tars	✓✓							✓	
05 06 04	waste from cooling columns		✓	✓						
05 07	wastes from natural gas purification and transportation									
05 07 01*	wastes containing mercury	✓	✓	✓					✓	
05 07 02	wastes containing sulphur		✓	✓					✓	
06	WASTES FROM INORGANIC CHEMICAL PROCESSES									
06 01	wastes from the manufacture, formulation, supply and use (MFSU) of acids									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
06 01 01*	sulphuric acid and sulphurous acid	✓	✓	✓					✓	
06 01 02*	hydrochloric acid	✓	✓	✓					✓	
06 01 03*	hydrofluoric acid	✓	✓	✓					✓	
06 01 04*	phosphoric and phosphorous acid	✓	✓	✓					✓	
06 01 05*	nitric acid and nitrous acid	✓	✓	✓					✓	
06 01 06*	other acids	✓	✓	✓					✓	
06 02	wastes from the MFSU of bases									
06 02 01*	calcium hydroxide	✓	✓	✓					✓	
06 02 03*	ammonium hydroxide	✓	✓	✓					✓	
06 02 04*	sodium and potassium hydroxide	✓	✓	✓					✓	
06 02 05*	other bases	✓	✓	✓					✓	
06 03	wastes from the MFSU of salts and their solutions and metallic oxides									
06 03 11*	solid salts and solutions containing cyanides	✓✓							✓	
06 03 13*	solid salts and solutions containing heavy metals	✓	✓	✓					✓	
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13		✓	✓					✓	
06 03 15*	metallic oxides containing heavy metals	✓	✓	✓	✓				✓	
06 03 16	metallic oxides other than those mentioned in 06 03 15		✓	✓	✓				✓	
06 04	metal-containing wastes other than those mentioned in 06 03									
06 04 03*	wastes containing arsenic	✓	✓	✓	✓				✓	
06 04 04*	wastes containing mercury	✓	✓	✓	✓				✓	
06 04 05*	wastes containing other heavy metals	✓	✓	✓	✓				✓	
06 05	sludges from on-site effluent treatment									
06 05 02*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓				✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02		✓	✓					✓	
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes									
06 06 02*	wastes containing dangerous sulphides	✓	✓	✓	✓				✓	
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02		✓	✓	✓				✓	
06 07	wastes from the MFSU of halogens and halogen chemical processes									
06 07 01*	wastes containing asbestos from electrolysis	✓✓							✓	
06 07 02*	activated carbon from chlorine production	✓✓								
06 07 03*	barium sulphate sludge containing mercury	✓	✓	✓	✓					
06 07 04*	solutions and acids, for example contact acid	✓	✓	✓					✓	
06 08	wastes from the MFSU of silicon and silicon derivatives									
06 08 02*	wastes containing dangerous silicones	✓✓							✓	
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes									
06 09 03*	calcium-based reaction wastes containing or contaminated with dangerous substances	✓	✓	✓	✓				✓	
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03		✓	✓	✓				✓	
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture									
06 10 02*	wastes containing dangerous substances	✓	✓	✓	✓				✓	
06 11	wastes from the manufacture of inorganic pigments and opacifiers									
06 11 01	calcium-based reaction wastes from titanium dioxide production		✓	✓					✓	
06 13	wastes from inorganic chemical processes not otherwise specified									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.	✓	✓	✓					✓	
06 13 02*	spent activated carbon (except 06 07 02)	✓✓							✓	
06 13 03	carbon black			✓					✓	
06 13 04*	wastes from asbestos processing	✓✓								
06 13 05*	soot	✓✓							✓	
07	WASTES FROM ORGANIC CHEMICAL PROCESSES									
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals									
07 01 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	
07 01 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 01 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 01 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 01 08*	other still bottoms and reaction residues	✓	✓	✓						
07 01 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 01 10*	other filter cakes and spent absorbents	✓✓							✓	
07 01 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓				✓	
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11		✓	✓	✓				✓	
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres									
07 02 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	
07 02 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 02 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 02 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 02 08*	other still bottoms and reaction residues	✓	✓	✓						

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
07 02 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 02 10*	other filter cakes and spent absorbents	✓✓							✓	
07 02 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11		✓	✓	✓				✓	
07 02 14*	wastes from additives containing dangerous substances	✓	✓	✓					✓	
07 02 15	wastes from additives other than those mentioned in 07 02 14		✓	✓					✓	
07 02 16*	wastes containing dangerous silicones	✓✓							✓	
07 02 17	wastes containing silicones other than those mentioned in 07 02 16		✓	✓					✓	
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)									
07 03 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	
07 03 03*	organic halogenated solvents, washing liquids and mother liquors	✓							✓	
07 03 04*	other organic solvents, washing liquids and mother liquors	✓							✓	
07 03 07*	halogenated still bottoms and reaction residues	✓							✓	
07 03 08*	other still bottoms and reaction residues	✓	✓	✓						
07 03 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 03 10*	other filter cakes and spent absorbents	✓✓							✓	
07 03 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11		✓	✓	✓				✓	
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides									
07 04 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
07 04 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 04 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 04 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 04 08*	other still bottoms and reaction residues	✓	✓	✓					✓	
07 04 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 04 10*	other filter cakes and spent absorbents	✓✓							✓	
07 04 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11		✓	✓	✓				✓	
07 04 13*	solid wastes containing dangerous substances	✓✓							✓	
07 05	wastes from the MFSU of pharmaceuticals									
07 05 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	
07 05 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 05 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 05 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 05 08*	other still bottoms and reaction residues	✓	✓	✓						
07 05 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 05 10*	other filter cakes and spent absorbents	✓✓							✓	
07 05 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11		✓	✓	✓				✓	
07 05 13*	solid wastes containing dangerous substances	✓✓							✓	
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics									
07 06 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
07 06 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 06 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 06 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 06 08*	other still bottoms and reaction residues	✓	✓	✓					✓	
07 06 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 06 10*	other filter cakes and spent absorbents	✓✓							✓	
07 06 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11		✓	✓	✓				✓	
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified									
07 07 01*	aqueous washing liquids and mother liquors	✓	✓	✓	✓				✓	
07 07 03*	organic halogenated solvents, washing liquids and mother liquors	✓✓							✓	
07 07 04*	other organic solvents, washing liquids and mother liquors	✓✓							✓	
07 07 07*	halogenated still bottoms and reaction residues	✓✓							✓	
07 07 08*	other still bottoms and reaction residues	✓	✓	✓					✓	
07 07 09*	halogenated filter cakes and spent absorbents	✓✓							✓	
07 07 10*	other filter cakes and spent absorbents	✓✓							✓	
07 07 11*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11		✓	✓	✓				✓	
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS									
08 01	wastes from MFSU and removal of paint and varnish									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances	✓✓							✓	
08 01 12	waste paint and varnish other than those mentioned in 08 01 11		✓	✓					✓	
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances	✓✓							✓	
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13		✓	✓	✓				✓	
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances	✓	✓	✓	✓				✓	
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15	✓	✓	✓	✓				✓	
08 01 17*	wastes from paint or varnish removal containing organic solvents or other dangerous substances	✓✓							✓	
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17		✓	✓	✓				✓	
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances	✓	✓	✓					✓	
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19		✓	✓	✓				✓	
08 01 21*	waste paint or varnish remover	✓	✓	✓					✓	
08 02	wastes from MFSU of other coatings (including ceramic materials)									
08 02 01	waste coating powders		✓	✓					✓	
08 02 02	aqueous sludges containing ceramic materials		✓	✓					✓	
08 02 03	aqueous suspensions containing ceramic materials		✓	✓					✓	
08 03	wastes from MFSU of printing inks									
08 03 07	aqueous sludges containing ink		✓	✓					✓	
08 03 08	aqueous liquid waste containing ink		✓	✓					✓	
08 03 12*	waste ink containing dangerous substances	✓✓							✓	✓

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
08 03 13	waste ink other than those mentioned in 08 03 12		✓	✓	✓				✓	
08 03 14*	ink sludges containing dangerous substances	✓✓								
08 03 15	ink sludges other than those mentioned in 08 03 14		✓	✓	✓				✓	
08 03 16*	waste etching solutions	✓	✓	✓					✓	
08 03 17*	waste printing toner containing dangerous substances	✓✓							✓	
08 03 19*	disperse oil	✓				✓			✓	
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)									
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances	✓✓							✓	
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09		✓	✓					✓	
08 04 11*	adhesive and sealant sludges containing organic solvents or other dangerous substances	✓✓							✓	
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11		✓	✓					✓	
08 04 13*	aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances	✓✓							✓	
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13		✓	✓					✓	
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances	✓✓							✓	
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15		✓	✓					✓	
08 04 17*	rosin oil	✓				✓			✓	
08 05	wastes not otherwise specified in 08									
08 05 01*	waste isocyanates	✓✓							✓	
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
09 01	wastes from the photographic industry									
09 01 01*	water-based developer and activator solutions	✓	✓	✓					✓	
09 01 02*	water-based offset plate developer solutions	✓	✓	✓					✓	
09 01 03*	solvent-based developer solutions	✓✓							✓	
09 01 04*	fixer solutions	✓	✓	✓					✓	
09 01 05*	bleach solutions and bleach fixer solutions	✓	✓	✓					✓	
09 01 06*	wastes containing silver from on-site treatment of photographic wastes	✓	✓	✓					✓	
09 01 11*	single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03	✓✓								
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06	✓	✓	✓					✓	
10	WASTES FROM THERMAL PROCESSES									
10 01	wastes from power stations and other combustion plants (except 19)									
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)			✓						
10 01 02	coal fly ash			✓						
10 01 03	fly ash from peat and untreated wood			✓						
10 01 04*	oil fly ash and boiler dust	✓✓								
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form		✓	✓						
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form		✓	✓						
10 01 09*	sulphuric acid	✓	✓	✓					✓	
10 01 13*	fly ash from emulsified hydrocarbons used as fuel	✓		✓					✓	
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing dangerous substances	✓		✓					✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14			✓					✓	
10 01 16*	fly ash from co-incineration containing dangerous substances	✓		✓					✓	
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16			✓					✓	
10 01 18*	wastes from gas cleaning containing dangerous substances	✓	✓	✓	✓				✓	
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18		✓	✓	✓				✓	
10 01 20*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓			✓	
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20		✓	✓	✓				✓	
10 01 22*	aqueous sludges from boiler cleansing containing dangerous substances	✓	✓	✓	✓				✓	
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22		✓	✓	✓				✓	
10 01 24	sands from fluidised beds		✓	✓					✓	
10 01 25	wastes from fuel storage and preparation of coal-fired power plants		✓	✓		✓			✓	
10 01 26	wastes from cooling-water treatment		✓	✓					✓	
10 02	wastes from the iron and steel industry									
10 02 07*	solid wastes from gas treatment containing dangerous substances	✓		✓					✓	
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07			✓					✓	
10 02 11*	wastes from cooling-water treatment containing oil	✓				✓			✓	
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11		✓	✓	✓				✓	
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances	✓	✓	✓	✓				✓	
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13		✓	✓	✓				✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 02 15	other sludges and filter cakes		✓	✓					✓	
10 03	wastes from aluminum thermal metallurgy									
10 03 04*	primary production slags	✓✓								
10 03 05	waste alumina		✓	✓					✓	
10 03 08*	salt slags from secondary production	✓✓								
10 03 09*	black drosses from secondary production	✓✓								
10 03 15*	skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	✓✓								
10 03 16	skimmings other than those mentioned in 10 03 15		✓	✓						
10 03 17*	tar-containing wastes from anode manufacture	✓✓								
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17		✓	✓						
10 03 19*	flue-gas dust containing dangerous substances	✓		✓						
10 03 20	flue-gas dust other than those mentioned in 10 03 19			✓						
10 03 21*	other particulates and dust (including ball-mill dust) containing dangerous substances	✓✓							✓	
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21			✓					✓	
10 03 23*	solid wastes from gas treatment containing dangerous substances	✓		✓					✓	
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23		✓	✓	✓				✓	
10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances	✓	✓	✓	✓				✓	
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25		✓	✓	✓				✓	
10 03 27*	wastes from cooling-water treatment containing oil	✓				✓				
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27		✓	✓	✓					

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 03 29*	wastes from treatment of salt slags and black drosses containing dangerous substances	✓✓								
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29		✓	✓						
10 04	wastes from lead thermal metallurgy									
10 04 01*	slags from primary and secondary production	✓✓								
10 04 02*	dross and skimmings from primary and secondary production	✓✓								
10 04 03*	calcium arsenate	✓✓								
10 04 04*	flue-gas dust	✓		✓						
10 04 05*	other particulates and dust	✓		✓						
10 04 06*	solid wastes from gas treatment	✓		✓						
10 04 07*	sludges and filter cakes from gas treatment	✓	✓	✓	✓					
10 04 09*	wastes from cooling-water treatment containing oil	✓				✓				
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09		✓	✓	✓					
10 05	wastes from zinc thermal metallurgy									
10 05 03*	flue-gas dust	✓		✓						
10 05 04	other particulates and dust			✓						
10 05 05*	solid waste from gas treatment	✓		✓						
10 05 06*	sludges and filter cakes from gas treatment	✓	✓	✓	✓					
10 05 08*	wastes from cooling-water treatment containing oil	✓				✓				
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08		✓	✓	✓					
10 05 10*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	✓✓							✓	
10 05 11	dross and skimmings other than those mentioned in 10 05 10		✓	✓					✓	
10 06	wastes from copper thermal metallurgy									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 06 02	dross and skimmings from primary and secondary production		✓	✓						
10 06 03*	flue-gas dust	✓		✓						
10 06 04	other particulates and dust			✓						
10 06 06*	solid wastes from gas treatment	✓		✓						
10 06 07*	sludges and filter cakes from gas treatment	✓	✓	✓	✓				✓	
10 06 09*	wastes from cooling-water treatment containing oil	✓				✓				
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09		✓	✓	✓					
10 07	wastes from silver, gold and platinum thermal metallurgy									
10 07 02	dross and skimmings from primary and secondary production		✓	✓					✓	
10 07 03	solid wastes from gas treatment			✓					✓	
10 07 04	other particulates and dust			✓					✓	
10 07 05	sludges and filter cakes from gas treatment		✓	✓					✓	
10 07 07*	wastes from cooling-water treatment containing oil	✓				✓				
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07		✓	✓	✓					
10 08	wastes from other non-ferrous thermal metallurgy									
10 08 04	particulates and dust			✓					✓	
10 08 08*	salt slag from primary and secondary production	✓✓								
10 08 10*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	✓✓								
10 08 11	dross and skimmings other than those mentioned in 10 08 10		✓	✓						
10 08 12*	tar-containing wastes from anode manufacture	✓✓								
10 08 15*	flue-gas dust containing dangerous substances	✓		✓						
10 08 16	flue-gas dust other than those mentioned in 10 08 15			✓						

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 08 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances	✓	✓	✓	✓				✓	
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17		✓	✓	✓				✓	
10 08 19*	wastes from cooling-water treatment containing oil	✓				✓				
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19		✓	✓	✓					
10 09	wastes from casting of ferrous pieces									
10 09 05*	casting cores and moulds which have not undergone pouring containing dangerous substances	✓✓								
10 09 07*	casting cores and moulds which have undergone pouring containing dangerous substances	✓✓								
10 09 09*	flue-gas dust containing dangerous substances	✓		✓						
10 09 10	flue-gas dust other than those mentioned in 10 09 09			✓						
10 09 11*	other particulates containing dangerous substances	✓		✓					✓	
10 09 12	other particulates other than those mentioned in 10 09 11			✓					✓	
10 09 13*	waste binders containing dangerous substances	✓✓							✓	
10 09 15*	waste crack-indicating agent containing dangerous substances	✓✓							✓	
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15		✓	✓					✓	
10 10	wastes from casting of non-ferrous pieces									
10 10 05*	casting cores and moulds which have not undergone pouring, containing dangerous substances	✓✓								
10 10 07*	casting cores and moulds which have undergone pouring, containing dangerous substances	✓✓								
10 10 09*	flue-gas dust containing dangerous substances	✓		✓						
10 10 10	flue-gas dust other than those mentioned in 10 10 09			✓						
10 10 11*	other particulates containing dangerous substances	✓		✓					✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 10 12	other particulates other than those mentioned in 10 10 11			✓					✓	
10 10 13*	waste binders containing dangerous substances	✓✓							✓	
10 10 14	waste binders other than those mentioned in 10 10 13			✓		✓			✓	
10 10 15*	waste crack-indicating agent containing dangerous substances	✓✓							✓	
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15		✓	✓					✓	
10 11	wastes from manufacture of glass and glass products									
10 11 05	particulates and dust			✓					✓	
10 11 09*	waste preparation mixture before thermal processing, containing dangerous substances	✓✓							✓	
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09		✓	✓	✓				✓	
10 11 11*	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)	✓✓								
10 11 13*	glass-polishing and -grinding sludge containing dangerous substances	✓	✓	✓	✓					
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13		✓	✓	✓					
10 11 15*	solid wastes from flue-gas treatment containing dangerous substances	✓		✓						
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15			✓						
10 11 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances	✓	✓	✓	✓				✓	
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17		✓	✓	✓				✓	
10 11 19*	solid wastes from on-site effluent treatment containing dangerous substances	✓		✓					✓	
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19			✓					✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products									
10 12 01	waste preparation mixture before thermal processing		✓	✓						
10 12 03	particulates and dust			✓					✓	
10 12 05	sludges and filter cakes from gas treatment		✓	✓					✓	
10 12 09*	solid wastes from gas treatment containing dangerous substances	✓		✓						
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09			✓					✓	
10 12 11*	wastes from glazing containing heavy metals	✓✓							✓	
10 12 13	sludge from on-site effluent treatment		✓	✓					✓	
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them									
10 13 04	wastes from calcination and hydration of lime		✓	✓						
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)			✓					✓	
10 13 07	sludges and filter cakes from gas treatment		✓	✓						
10 13 09*	wastes from asbestos-cement manufacture containing asbestos	✓✓								
10 13 12*	solid wastes from gas treatment containing dangerous substances	✓		✓						
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12			✓						
10 13 14	waste concrete and concrete sludge		✓	✓					✓	
10 14	waste from crematoria									
10 14 01*	waste from gas cleaning containing mercury	✓		✓	✓					
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)									
11 01 05*	pickling acids	✓	✓	✓					✓	
11 01 06*	acids not otherwise specified	✓	✓	✓					✓	
11 01 07*	pickling bases	✓	✓	✓					✓	
11 01 08*	phosphatising sludges	✓	✓	✓	✓				✓	
11 01 09*	sludges and filter cakes containing dangerous substances	✓	✓	✓	✓				✓	
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09		✓	✓	✓				✓	
11 01 11*	aqueous rinsing liquids containing dangerous substances	✓	✓	✓	✓				✓	
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11		✓	✓	✓				✓	
11 01 13*	degreasing wastes containing dangerous substances	✓	✓	✓	✓				✓	
11 01 14	degreasing wastes other than those mentioned in 11 01 13		✓	✓	✓				✓	
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances	✓	✓	✓	✓				✓	
11 01 16*	saturated or spent ion exchange resins	✓✓							✓	
11 01 98*	other wastes containing dangerous substances	✓	✓	✓	✓	✓			✓	
11 02	wastes from non-ferrous hydrometallurgical processes									
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)	✓	✓	✓	✓				✓	
11 02 03	wastes from the production of anodes for aqueous electrolytical processes			✓						
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances	✓	✓	✓	✓					
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05		✓	✓	✓					
11 02 07*	other wastes containing dangerous substances	✓	✓	✓	✓	✓			✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
11 03	sludges and solids from tempering processes									
11 03 01*	wastes containing cyanide	✓✓							✓	
11 03 02*	other wastes	✓	✓	✓	✓	✓			✓	
11 05	wastes from hot galvanising processes									
11 05 02	zinc ash			✓						
11 05 03*	solid wastes from gas treatment	✓		✓						
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS									
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics									
12 01 02	ferrous metal dust and particles		✓	✓						
12 01 04	non-ferrous metal dust and particles		✓	✓						
12 01 06*	mineral-based machining oils containing halogens (except emulsions and solutions)	✓				✓			✓	
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)	✓				✓			✓	
12 01 08*	machining emulsions and solutions containing halogens	✓	✓	✓		✓			✓	
12 01 09*	machining emulsions and solutions free of halogens	✓	✓	✓		✓			✓	
12 01 10*	synthetic machining oils	✓				✓			✓	
12 01 12*	spent waxes and fats	✓✓							✓	
12 01 14*	machining sludges containing dangerous substances	✓	✓	✓	✓					
12 01 15	machining sludges other than those mentioned in 12 01 14		✓	✓	✓					
12 01 16*	waste blasting material containing dangerous substances	✓✓								
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil	✓				✓				
12 01 19*	readily biodegradable machining oil	✓				✓			✓	
12 01 20*	spent grinding bodies and grinding materials containing dangerous substances	✓	✓	✓	✓					

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20		✓	✓	✓					
12 03	wastes from water and steam degreasing processes (except 11)									
12 03 01*	aqueous washing liquids	✓	✓	✓	✓	✓				
12 03 02*	steam degreasing wastes	✓	✓	✓		✓				
13	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)									
13 01	waste hydraulic oils									
13 01 01*	hydraulic oils, containing PCBs	✓✓							✓	
13 01 04*	chlorinated emulsions	✓	✓	✓		✓			✓	
13 01 05*	non-chlorinated emulsions	✓	✓	✓		✓			✓	
13 01 09*	mineral-based chlorinated hydraulic oils	✓				✓			✓	
13 01 10*	mineral based non-chlorinated hydraulic oils	✓				✓			✓	
13 01 11*	synthetic hydraulic oils	✓				✓			✓	
13 01 12*	readily biodegradable hydraulic oils	✓				✓			✓	
13 01 13*	other hydraulic oils	✓				✓			✓	
13 02	waste engine, gear and lubricating oils									
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils	✓				✓			✓	
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils	✓				✓			✓	
13 02 06*	synthetic engine, gear and lubricating oils	✓				✓			✓	
13 02 07*	readily biodegradable engine, gear and lubricating oils	✓				✓			✓	
13 02 08*	other engine, gear and lubricating oils	✓				✓			✓	
13 03	waste insulating and heat transmission oils									
13 03 01*	insulating or heat transmission oils containing PCBs	✓✓							✓	
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01	✓				✓			✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils	✓				✓			✓	
13 03 08*	synthetic insulating and heat transmission oils	✓				✓			✓	
13 03 09*	readily biodegradable insulating and heat transmission oils	✓				✓			✓	
13 03 10*	other insulating and heat transmission oils	✓				✓			✓	
13 04	bilge oils									
13 04 01*	bilge oils from inland navigation	✓				✓				
13 04 02*	bilge oils from jetty sewers	✓				✓				
13 04 03*	bilge oils from other navigation	✓				✓				
13 05	oil/water separator contents									
13 05 01*	solids from grit chambers and oil/water separators	✓				✓			✓	
13 05 02*	sludges from oil/water separators	✓	✓	✓	✓	✓			✓	
13 05 03*	interceptor sludges	✓	✓	✓	✓	✓			✓	
13 05 06*	oil from oil/water separators	✓				✓			✓	
13 05 07*	oily water from oil/water separators	✓				✓			✓	
13 05 08*	mixtures of wastes from grit chambers and oil/water separators	✓	✓	✓	✓	✓				
13 07	wastes of liquid fuels									
13 07 01*	fuel oil and diesel	✓				✓			✓	
13 07 02*	petrol	✓✓							✓	
13 07 03*	other fuels (including mixtures)	✓				✓			✓	
13 08	oil wastes not otherwise specified									
13 08 01*	desalter sludges or emulsions	✓	✓	✓	✓	✓				
13 08 02*	other emulsions	✓	✓	✓		✓			✓	
14	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)									
14 06	waste organic solvents, refrigerants and foam/aerosol propellants									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
14 06 01*	chlorofluorocarbons, HCFC, HFC	✓✓							✓	
14 06 02*	other halogenated solvents and solvent mixtures	✓✓							✓	
14 06 03*	other solvents and solvent mixtures	✓✓							✓	
14 06 04*	sludges or solid wastes containing halogenated solvents	✓✓							✓	
14 06 05*	sludges or solid wastes containing other solvents	✓✓							✓	
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 dangerous substances	✓✓						✓		✓
15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers	✓✓							✓	
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 dangerous 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 07*	oil filters	✓✓								
16 01 08*	components containing mercury	✓✓								
16 01 09*	components containing PCBs	✓✓							✓	
16 01 11*	brake pads containing asbestos	✓✓								
16 01 13*	brake fluids	✓				✓			✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
16 01 14*	antifreeze fluids containing dangerous substances	✓	✓	✓		✓			✓	
16 01 15	antifreeze fluids other than those mentioned in 16 01 14		✓	✓		✓			✓	
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14	✓				✓			✓	
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 12*	discarded equipment containing free asbestos	✓✓								
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 02 16	components removed from discarded equipment other than those mentioned in 16 02 15					✓				
16 03	off-specification batches and unused products									
16 03 03*	inorganic wastes containing dangerous substances	✓	✓	✓	✓				✓	✓
16 03 04	inorganic wastes other than those mentioned in 16 03 03		✓	✓	✓				✓	
16 03 05*	organic wastes containing dangerous substances	✓	✓	✓		✓			✓	✓
16 03 06	organic wastes other than those mentioned in 16 03 05		✓	✓		✓			✓	
16 05	gases in pressure containers and discarded chemicals									
16 05 04*	gases in pressure containers (including halons) containing dangerous substances	✓✓					✓		✓	
16 05 05	gases in pressure containers other than those mentioned in 16 05 04						✓		✓	
16 05 06*	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	✓✓							✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances	✓	✓	✓					✓	✓ [Note 1]
16 05 08*	discarded organic chemicals consisting of or containing dangerous substances	✓	✓	✓					✓	✓ [Note 1]
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08		✓	✓		✓			✓	
16 06	batteries and accumulators									
16 06 01*	lead batteries	✓✓								
16 06 02*	Ni-Cd batteries	✓✓								
16 06 03*	mercury-containing batteries	✓✓								
16 06 06*	separately collected electrolyte from batteries and accumulators	✓	✓	✓					✓	
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)									
16 07 08*	wastes containing oil	✓				✓				
16 07 09*	wastes containing other dangerous substances	✓	✓	✓						
16 08	spent catalysts									
16 08 02*	spent catalysts containing dangerous transition metals or dangerous transition metal compounds	✓✓							✓	
16 08 05*	spent catalysts containing phosphoric acid	✓	✓	✓					✓	
16 08 06*	spent liquids used as catalysts	✓	✓	✓					✓	
16 08 07*	spent catalysts contaminated with dangerous substances	✓✓							✓	
16 09	oxidising substances									
16 09 01*	permanganates, for example potassium permanganate	✓	✓	✓					✓	
16 09 02*	chromates, for example potassium chromate, potassium or sodium dichromate	✓	✓	✓					✓	
16 09 03*	peroxides, for example hydrogen peroxide	✓	✓	✓					✓	
16 09 04*	oxidising substances, not otherwise specified	✓	✓	✓					✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
16 10	aqueous liquid wastes destined for off-site treatment									
16 10 01*	aqueous liquid wastes containing dangerous substances	✓	✓	✓	✓				✓	
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01		✓	✓	✓				✓	
16 10 03*	aqueous concentrates containing dangerous substances	✓	✓	✓					✓	
16 10 04	aqueous concentrates other than those mentioned in 16 10 03		✓	✓					✓	
16 11	waste linings and refractories									
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances	✓✓								
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances	✓✓								
16 11 05*	linings and refractories from non-metallurgical processes containing dangerous substances	✓✓								
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)									
17 01	concrete, bricks, tiles and ceramics									
17 01 06*	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances	✓✓								
17 02	wood, glass and plastic									
17 02 04*	glass, plastic and wood containing or contaminated with dangerous substances	✓✓								
17 03	bituminous mixtures, coal tar and tarred products									
17 03 01*	bituminous mixtures containing coal tar	✓✓							✓	
17 03 03*	coal tar and tarred products	✓✓							✓	
17 04	metals (including their alloys)									
17 04 09*	metal waste contaminated with dangerous substances	✓✓								
17 04 10*	cables containing oil, coal tar and other dangerous substances	✓✓								

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil									
17 05 03*	soil and stones containing dangerous substances	✓✓							✓	
17 05 04	soil and stones other than those mentioned in 17 05 03		✓	✓	✓				✓	
17 05 05*	dredging spoil containing dangerous substances	✓✓								
17 05 06	dredging spoil other than those mentioned in 17 05 05		✓	✓	✓					
17 05 07*	track ballast containing dangerous substances	✓✓								
17 06	insulation materials and asbestos-containing construction materials									
17 06 01*	insulation materials containing asbestos	✓✓								
17 06 03*	other insulation materials consisting of or containing dangerous substances	✓✓								
17 06 05*	construction materials containing asbestos	✓✓								
17 08	gypsum-based construction material									
17 08 01*	gypsum-based construction materials contaminated with dangerous substances	✓✓								
17 09	other construction and demolition wastes									
17 09 01*	construction and demolition wastes containing mercury	✓✓								
17 09 02*	construction and demolition wastes containing PCB (for example PCB-containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)	✓✓								
17 09 03*	other construction and demolition wastes (including mixed wastes) containing dangerous substances	✓✓							✓	
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 06*	chemicals consisting of or containing dangerous substances	✓	✓	✓		✓			✓	

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
18 01 07	chemicals other than those mentioned in 18 01 06		✓	✓					✓	
18 01 08*	cytotoxic and cytostatic medicines	✓✓							✓	
18 01 10*	amalgam waste from dental care	✓✓							✓	
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals									
18 02 05*	chemicals consisting of or containing dangerous substances	✓	✓	✓		✓			✓	
18 02 06	chemicals other than those mentioned in 18 02 05		✓	✓						
18 02 07*	cytotoxic and cytostatic medicines	✓✓							✓	
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 05*	filter cake from gas treatment	✓✓							✓	
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes	✓	✓	✓						
19 01 07*	solid wastes from gas treatment	✓		✓						
19 01 10*	spent activated carbon from flue-gas treatment	✓							✓	
19 01 11*	bottom ash and slag containing dangerous substances	✓		✓						
19 01 12	bottom ash and slag other than those mentioned in 19 01 11			✓						
19 01 13*	fly ash containing dangerous substances	✓		✓						
19 01 14	fly ash other than those mentioned in 19 01 13			✓						
19 01 15*	boiler dust containing dangerous substances	✓		✓						
19 01 16	boiler dust other than those mentioned in 19 01 15			✓						
19 01 17*	pyrolysis wastes containing dangerous substances	✓✓							✓	
19 01 19	sands from fluidised beds		✓	✓						

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)									
19 02 03	premixed wastes composed only of non-hazardous wastes		✓	✓					✓	
19 02 04*	premixed wastes composed of at least one hazardous waste	✓	✓	✓	✓				✓	
19 02 05*	sludges from physico/chemical treatment containing dangerous substances	✓	✓	✓	✓				✓	
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05		✓	✓	✓				✓	
19 02 07*	oil and concentrates from separation	✓				✓			✓	
19 02 08*	liquid combustible wastes containing dangerous substances	✓✓							✓	
19 02 09*	solid combustible wastes containing dangerous substances	✓✓							✓	
19 02 11*	other wastes containing dangerous substances	✓	✓	✓	✓				✓	
19 03	stabilised/solidified wastes									
19 03 04*	wastes marked as hazardous, partly stabilised	✓✓							✓	
19 03 05	stabilised wastes other than those mentioned in 19 03 04		✓	✓	✓				✓	
19 03 06*	wastes marked as hazardous, solidified	✓✓							✓	
19 04	vitrified waste and wastes from vitrification									
19 04 02*	fly ash and other flue-gas treatment wastes	✓		✓						
19 04 03*	non-vitrified solid phase	✓✓								
19 04 04	aqueous liquid wastes from vitrified waste tempering		✓	✓						
19 05	wastes from aerobic treatment of solid wastes									
19 05 03	off-specification compost			✓						
19 06	wastes from anaerobic treatment of waste									
19 06 03	liquor from anaerobic treatment of municipal waste		✓	✓						
19 06 05	liquor from anaerobic treatment of animal and vegetable waste		✓	✓						
19 07	landfill leachate									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
19 07 02*	landfill leachate containing dangerous substances	✓	✓	✓	✓				✓	
19 07 03	landfill leachate other than those mentioned in 19 07 02		✓	✓					✓	
19 08	wastes from waste water treatment plants not otherwise specified									
19 08 02	waste from desanding		✓	✓						
19 08 06*	saturated or spent ion exchange resins	✓	✓						✓	
19 08 07*	solutions and sludges from regeneration of ion exchangers	✓	✓							
19 08 08*	membrane system waste containing heavy metals	✓	✓							
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats					✓				
19 08 10*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09	✓				✓				
19 08 11*	sludges containing dangerous substances from biological treatment of industrial waste water	✓	✓							
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11		✓							
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water	✓	✓			✓				
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13		✓							
19 09	wastes from the preparation of water intended for human consumption or water for industrial use									
19 09 02	sludges from water clarification		✓	✓						
19 09 03	sludges from decarbonation		✓	✓						
19 09 04	spent activated carbon		✓	✓					✓	
19 09 05	saturated or spent ion exchange resins		✓	✓					✓	
19 09 06	solutions and sludges from regeneration of ion exchangers		✓	✓					✓	
19 10	wastes from shredding of metal-containing wastes									

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
19 10 03*	fluff-light fraction and dust containing dangerous substances	✓✓								
19 10 05*	other fractions containing dangerous substances	✓✓								
19 11	wastes from oil regeneration									
19 11 01*	spent filter clays	✓✓								
19 11 02*	acid tars	✓✓							✓	
19 11 03*	aqueous liquid wastes	✓	✓	✓	✓				✓	
19 11 04*	wastes from cleaning of fuel with bases	✓	✓	✓		✓			✓	
19 11 05*	sludges from on-site effluent treatment containing dangerous substances	✓	✓	✓	✓	✓				
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05		✓	✓	✓					
19 11 07*	wastes from flue-gas cleaning	✓	✓	✓						
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified									
19 12 06*	wood containing dangerous substances	✓✓								
19 12 10	combustible waste (refuse derived fuel)					✓				
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	✓✓							✓	
19 13	wastes from soil and groundwater remediation									
19 13 01*	solid wastes from soil remediation containing dangerous substances	✓✓							✓	
19 13 03*	sludges from soil remediation containing dangerous substances	✓✓								
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03		✓	✓	✓					
19 13 05*	sludges from groundwater remediation containing dangerous substances	✓	✓	✓	✓	✓				
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05		✓	✓	✓					

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances	✓	✓	✓	✓	✓			✓	
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07		✓	✓	✓					
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 13*	solvents	✓✓							✓	
20 01 14*	acids	✓	✓	✓					✓	
20 01 15*	alkalines	✓	✓	✓					✓	
20 01 17*	photochemicals	✓	✓	✓					✓	
20 01 19*	pesticides	✓✓							✓	
20 01 21*	fluorescent tubes and other mercury-containing waste	✓✓								
20 01 23*	discarded equipment containing chlorofluorocarbons	✓✓								
20 01 25	edible oil and fat					✓			✓	
20 01 26*	oil and fat other than those mentioned in 20 01 25	✓				✓			✓	
20 01 27*	paint, inks, adhesives and resins containing dangerous substances	✓✓							✓	✓
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27		✓	✓					✓	
20 01 29*	detergents containing dangerous substances	✓	✓	✓					✓	✓
20 01 30	detergents other than those mentioned in 20 01 29		✓	✓					✓	
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	✓✓								

Table S2.2 Permitted waste types and quantities		1	2	3	4	5	6	7	8	9
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	✓✓								
20 01 37*	wood containing dangerous substances	✓✓								
Note 1 – Waste under this code can only be processed under activity A8 if agreed with the Environment Agency in writing.										

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	Monitoring standard or method
A1 [Point A1 on site plan ref. emp/ppc/04d]	Drum crusher and shredder scrubber	--	--	--	--	--
A6 [Point A6 on site plan ref. emp/ppc/04d]	PFA mixer abatement	--	--	--	--	--
A7/8 [Point A7/8 on site plan ref. emp/ppc/04d]	Dust filter LSDS1 serving Lime silos 1 and 2	--	--	--	--	--
A9 [Point A9 on site plan ref. emp/ppc/04d]	Dust filter APCDF1 serving APC1 silo	--	--	--	--	--
A10 [Point A10 on site plan ref. emp/ppc/04d]	Dust filter APCDF2 serving silo APC2	--	--	--	--	--
A11 [Point A11 on site plan ref. emp/ppc/04d]	Dust filter APCDF3 serving silo APC3	--	--	--	--	--
A12 [Point A12 on site plan ref. emp/ppc/04d]	Dust filter APCDF4 serving silo APC4	--	--	--	--	--
A13 [Point A13 on site plan ref. emp/ppc/04d]	Dust filter APCDF5 serving APC5 silo	--	--	--	--	--
A14 [Point A14 on site plan ref. emp/ppc/04d]	Dust filter APCDF6 serving silo APC6	--	--	--	--	--
A15 [Point A15 on site plan ref. emp/ppc/04d]	Scrubber LSRS1 serving laboratory smalls processing building	--	--	--	--	--
A16 [Point A16 on site plan ref. emp/ppc/04d]	Scrubber for PFT19, acid storage, SP Jumbo and APC sludge tanks	--	--	--	--	--

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	Monitoring standard or method
A17 (emission point 17 on site plan ref. emp/ppc/04d)	Cylinder processing scrubber	--	--	--	--	--

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [Point W1 on site plan ref. emp/ppc/04d] to Vigo Brook	Uncontaminated roof drainage from the transfer station	--	--	--	--	--

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [Point S1 on site plan ref. emp/ppc/04d] emission to Severn Trent Water Ltd sewer to Goscote Sewage Treatment Works	Process Effluent	Ammonia	500 mg/l	Spot sample	Prior to discharge	In accordance with M18 methodology unless otherwise agreed in writing by the Agency.
		COD	15,000 mg/l			
		COD	3,000 kg/d			
		Suspended Solids	1000 mg/l			
		Total Cyanide	10 mg/l			
		Total Sulphides	1 mg/l			
		Total Phenols	32 kg/d			
		Monohydric phenols	250 mg/l			
		Cadmium	50 µg/l			
		Chromium	1.5 mg/l	Prior to discharge		
		Copper	3.5 mg/l	Spot sample	Prior to discharge	

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
		Lead	0.5 mg/l			
		Nickel	5mg/l			
		Silver	0.4 mg/l			
		Tin	0.4 mg/l			
		Zinc	5 mg/l			
		Volume	350 m ³ /d	24 hour	When discharging	Ultrasonic Flow sensor
		Discharge rate	8 l/s	Instantaneous		

Table S3.4 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency 1	Monitoring standard or method	Other specifications
A1, Scrubber serving drum crusher and shredder unit	NaOH concentration	Daily	Not applicable	--
A16, Scrubber serving PFT19, acid storage, SP Jumbo and APC sludge tanks			Not applicable	--

Footnote ¹ – Monitoring only required when drum crusher and shredder unit served by the scrubber A1 is in use.

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
Emissions to sewer Parameters as required by condition 3.5.1.	S1	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	Units
Effluent discharged to sewer	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	24/11/2006
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	24/11/2006
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	24/11/2006
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	24/11/2006

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 Veolia ES (UK) Ltd

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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“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).

“controlled substances” means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed. This definition shall not cover any controlled substance which is in a manufactured product other than a container used for the transportation or storage of that substance, or insignificant quantities of any controlled substance, originating from inadvertent or coincidental production during a manufacturing process, from unreacted feedstock, or from use as a processing agent which is present in chemical substances as trace impurities, or that is emitted during product manufacture or handling.

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

“emissions to land” includes emissions to groundwater.

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

“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.

“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 given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

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

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

“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.

“Solvent Emissions Directive” means Directive 1999/13/EC (as amended by Directive 2004/42/EC) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

“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

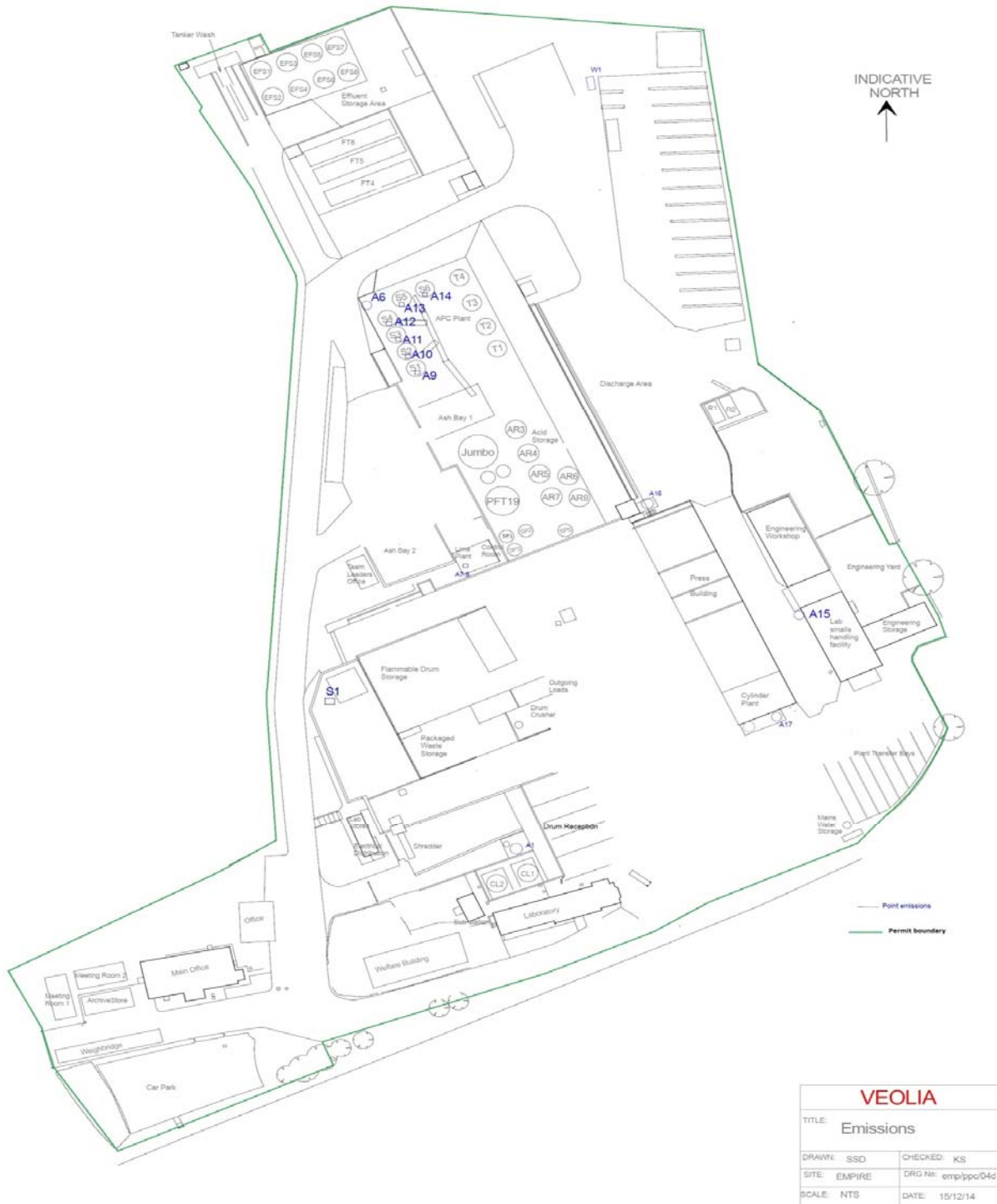
“year” means calendar year ending 31 December.

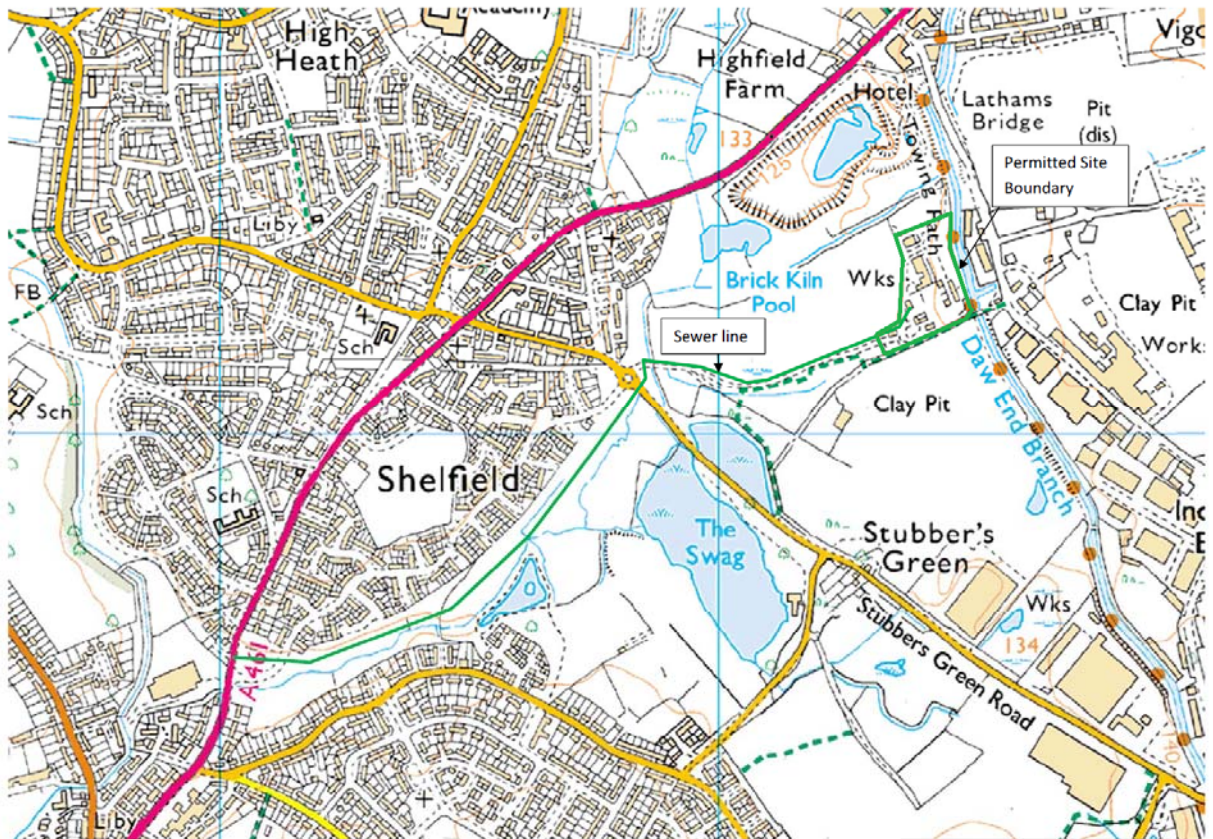
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- (a) 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
- (b) 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.

Schedule 7 – Site plan





This plan shows the extent of the effluent pipeline (green line) that is included within the installation.

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END OF PERMIT