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Permit with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Tradebe Gwent Limited

Gwent Waste Management Centre
Corporation Road
Newport
NP19 4RD

Variation notice number
EPR/SP3531SK/V007a

Permit number
EPR/SP3531SK

Gwent Waste Management Centre

Permit Number SP3531SK

Introductory note

This introductory note does not form a part of the permit

The regulated facility carries out a variety of waste disposal and recovery processes, and can accept a wide variety of hazardous and non-hazardous wastes which arrive in containers or in bulk road tankers. Pre-acceptance checks and analysis carried out on the wastes determine the storage, treatment, recovery or disposal activity within the regulated facility. Containerised wastes are stored and segregated, according to their types and properties, within a designated transfer facility building. They are either transferred off-site for recovery or disposal at another facility or introduced into the treatment plant at the regulated facility.

The facility is also equipped with drum washing and crushing facilities to enable the re-use and recycling of metal and plastic drums or containers.

The treatment plant is situated within the main process building and is capable of carrying out a number of treatment processes, including neutralisation of aqueous acidic and alkaline wastes and the precipitation of insoluble metal hydroxides using calcium hydroxide. Cyanide wastes are oxidised with sodium hypochlorite, in designated reaction tanks within the main process building, to produce cyanate ions which react further to produce carbon dioxide and nitrogen. The resulting liquid waste is then transferred to the main treatment system for the precipitation and removal of metals prior to discharge to sewer.

Waste oils and oil/water mixtures are separated by settlement and decanting techniques within the main process building. The recovered oil is despatched for further treatment and/or use as an alternative fuel at another facility. The separated water is processed through the treatment plant prior to discharge to sewer.

The regulated facility is situated on Corporation Road (Grid Reference ST 3286 8595), in an industrialised area approximately 4 kilometres south of Newport town centre.

The installation was constructed as a dedicated waste storage and treatment facility in the early to mid-1990s and its main features comprise an administration building; a weighbridge; a main process building constructed of corrugated metal approximately 12m high, situated in the centre of the installation, and a waste transfer station also constructed of corrugated metal, approximately 6m high, situated in the south west corner of the installation.

The regulated facility is within the Agency's "less than 1 in 75 years to more than 1 in 150 years" floodplain which indicates a moderate risk of flooding.

The River Usk is a Special Area of Conservation (SAC) and flows north to south approximately 500m to the west of the installation. The Gwent Levels, Nash and Goldcliff, is a Site of Special Scientific Interest (SSSI) and is within 2 kilometres south east of the facility.

The facility is situated on a non-aquifer. The underlying geology is composed of marine and estuarine alluvium drift deposits on top of Mercia Mudstone. Groundwater flow is considered to be in a south westerly direction, towards the River Usk.

Rainwater from roofed areas of the process and administration buildings drains into a reën at the eastern perimeter of the site.

The treated effluent produced within the main process building is analysed for conformance with emission limit values and discharged to sewer on a batch basis. All emissions are within benchmark concentrations and the H1 assessment considered all the emissions to be insignificant.

At the time of Permit issue air emissions from the Permitted Installation, excluding fugitive emissions from the transfer facility, consist of emissions from the boiler used for office heating and from the vent stack situated on top of the main process building. The abatement system comprises two primary scrubbers for gases produced from acid neutralisation and cyanide oxidation tanks and a secondary scrubber fitted with a fan to extract fugitive emissions from the process tanks and to maintain negative pressure within the process building.

There are no other process emissions, either to controlled waters or to land, from the installation.

Status Log of the permit

Description	Date	Comments
Application SP3531SK	Duly made 24/08/05	
Additional Information Received	24/03/06	12/05/06 and 15/05/06
Permit determined	26/06/06	
Application for variation EA/EPR/SP3531SK/V002	Duly made 27/06/08	
Variation EA/EPR/SP3531SK/V002 issued	13/10/08	
Application for variation EA/EPR/SP3531SK/V003	Duly made 06/04/10	
Variation EA/EPR/SP3531SK/V003 issued	29/07/10	
Application EPR/SP3531SK/V004	02/11/11	Application to vary and to add some additional waste codes
Variation determined EPR/SP3531SK	13/01/12	Varied permit issued.
Natural Resources Wales variation determined EPR/SP3531SK/V005	10/04/13	Natural Resources Wales Variation to implement the changes introduced by IED
Variation Application EPR/SP3531SK/V006	Duly Made 13/05/13	Application to add waste recovery codes to the permit
Additional Information Requested	28/06/13	
Additional Information Received	08/07/13	Clarification on where R codes and applicable waste types fit into Table S1.1
Variation determined EPR/SP3531SK/V006	20/08/13	Varied Permit Issued
Variation Application EPR/SP3531SK/V007	18/02/15	Application to change registered office address
Variation Determined EPR/SP3531SK/V007	27/04/15	Varied Permit Issued

Permit

Environmental Permitting
(England and Wales) Regulations 2010

Permit

Permit number

SP3531SK

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under Regulation 10 of the Environmental Permitting (England and Wales) Regulations 2010 hereby authorises

Tradebe (Gwent) Limited (“the operator”),

whose registered office

Atlas House

Third Avenue

Globe Park

Marlow

Bucks

SL7 1EY

company registration number **00171493**

to operate a regulated facility at

Gwent Waste Management Centre

Corporation Road

Newport

Gwent

NP19 4RD

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

Signed

Date

23 June 2017

Anna Lewis

Authorised to sign on behalf of the Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 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 or shall hold an appropriate certificate of technical competence or other approval issued by the Agency

1.2 Accidents that may cause pollution

- 1.2.1 The operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

- 1.4.1 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 4 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 appropriate further measures identified by a review.

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

1.5.1. The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

1.6 Site security

1.6.1. Site security measures shall prevent unauthorised access to the site, as far as practicable.

2. Operations

2.1 Permitted activities

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

2.1.2 Where there are wastes on site that are not subject to this permit then the wastes subject to the activities authorised under condition 2.1.1 shall be clearly identified.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged with a dotted line on the site plan at schedule 2 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 Agency.

2.3.2 No raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.3.3 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 3 tables S3.2, S3.3, S3.4 and S3.5; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- (c) it is only processed in the activities specified in Table S1.1 of Schedule 1.

- 2.3.4 Records shall be kept of all waste accepted onto the site.
- 2.3.5 The Operator shall ensure that where waste produced at the Permitted Regulated facility is sent to a waste recovery or disposal facility, the facility in question is provided with the following information, prior to receipt of the waste:
- The nature of the process producing the waste
 - The composition of the waste
 - The handling requirements of the waste
 - The hazard classification associated with the waste
 - The waste code of the waste
- 2.3.6 The Operator shall ensure that where waste produced at the Permitted Regulated facility(s) is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Off-site conditions

- 2.4.1 There are no off-site conditions under this section.

2.5 Improvement programme

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

2.6 Pre-operational conditions

- 2.6.1 The operations specified in schedule 1 table S1.6 shall not commence until the measures specified in that table have been completed.

2.7 Closure and decommissioning

- 2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.
- 2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.
- 2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

- 2.8.1 The operator shall, within 2 months of the issue of this permit, submit a site protection and monitoring programme.
- 2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

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 4 tables S4.1, S4.2 and S4.3.

3.1.2 The limits given in schedule 4 shall not be exceeded.

3.2 Transfers off-site

3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

3.3 Fugitive emissions of substances

3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.3.2 All liquids 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.

3.4 Odour

3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, including those specified in schedule 1 table S1.4, to prevent or where that is not practicable to minimise the odour. |

3.5 Noise and vibration

3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in schedule 4 to this permit:

- (a) point source emissions specified in tables S4.1, S4.2 and S4.3;
- (b) process monitoring specified in table S4.8.

- 3.6.2 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.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.
- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.

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 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) the site protection and monitoring programme.
- 4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3 All records required to be held by this permit shall be held on the site and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

- 4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;
 - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the annual production /treatment data set out in schedule 5 table S5.2;
 - (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
 - (e) details of any contamination or decontamination of the site which has occurred.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 5 table S5.1;
 - (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 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 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.

- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;
 - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
 - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
 - (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the Environmental Permitting Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
S5.3 A(1)(a)(iv)	<p>D14, Repackaging prior to submission to any of the operations numbered D1 to D13</p> <p>R12, Exchange of wastes for submission to any of the operations R1 to R11</p> <p>R13, Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Transfer Facility (500 tonnes) In the location specified in the site drawing, Figure 3(C) Detail of the transfer station, in Appendix 1 of the variation application V002</p> <p>Wastes specified in schedule 3, table S3.2</p> <p>D14, applies to the repackaging, over drumming & re-containerising of wastes for transfer pending onward disposal</p> <p>R12, applies to the following waste types: mixed paint tins, oil rags, flammable rags, flammable smalls, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), oil and mercury liquid.</p> <p>R13, applies to the following waste types: flammable paint tins, oil filters, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), and waste electrical and electronic equipment (WEEE).</p>
S5.3 A(1)(a)(iii)	<p>D13, Blending or mixing prior to submission to any of the operations numbered D1 to D12</p> <p>R12, Exchange of wastes for submission to any of the operations R1 to R11</p> <p>R13, Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Transfer Facility (500 tonnes) In the location specified in the site drawing, Figure 3(C) Detail of the transfer station, in Appendix 1 of the variation application V002</p> <p>Wastes specified in schedule 3, table S3.2</p> <p>D13, applies to the mixing or blending of compatible wastes with same properties and hazards</p> <p>R12, applies to the following waste types: mixed paint tins, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), oil and mercury liquid and metal bearing acids.</p> <p>R13, applies to the following waste types: flammable paint tins, flammable for recovery (IBCs / 205) and flammable for secondary liquid fuel (SLF).</p>
	<p>D13, Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>Treatment Plant (5254m³) consisting of the following tanks: Tanks 1 to 19 (3533m³) Tank 20 (280m³) Tank 21 (435m³) Tank 22 (435m³) Tank 26 (56m³) Sump 27 / 28 (65m³) Tanks 33 a/b (20m³) Tanks 51 to 55 (153m³) Tank 56 (30m³) Tank 57 (30m³) Tank 58 (5m³) Tanks 60 to 63 (76m³) Tank 64 & 65 (40m³) Also some small storage vessels, filter presses and sumps (96m³) In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank</p>

		<p>layout, in Appendix 1 of the variation application</p> <p>Wastes specified in schedule 3, table S3.3</p> <p>D13, applies to mixing or blending of compatible wastes prior to physico-chemical treatment.</p>
S5.3 A(1)(a)(ii)	<p>D9, Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12</p> <p>R12, Exchange of wastes for submission to any of the operations R1 to R11</p>	<p>Treatment Plant (5254m³) consisting of the following tanks: Tanks 1 to 19 (3533m³) Tank 20 (280m³) Tank 21 (435m³) Tank 22 (435m³) Tank 26 (56m³) Sump 27 / 28 (65m³) Tanks 33 a/b (20m³) Tanks 51 to 55 (153m³) Tank 56 (30m³) Tank 57 (30m³) Tank 58 (5m³) Tanks 60 to 63 (76m³) Tank 64 & 65 (40m³) Also some small storage vessels, filter presses and sumps (96m³) In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank layout, in Appendix 1 of the variation application V002</p> <p>Wastes specified in schedule 3, table S3.3</p> <p>D9, applies to physico-chemical treatment, specifically: neutralisation, precipitation, flocculation, saponification, filtration, carbon absorption reduction, oxidation and stabilisation</p> <p>R12, applies to filter cake.</p>
	<p>D9, Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12</p> <p>R3, Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p>	<p>Waste Oil Treatment Plant (986m³) consisting of the following tanks: Tank 21 (468 tonnes) Tank 22 (468 tonnes) Tank 26 (50 tonnes) In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank layout, in Appendix 1 of the variation application V002</p> <p>Wastes specified in schedule 3, table S3.4</p> <p>D9, applies to physico-chemical treatment of oils.</p> <p>R3, applies to the recycling/reclamation of organic substances which are not used as solvents – separation and recovery of oil</p>
S5.6 A(1)(a)	<p>D15, Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced)</p>	<p>Treatment Plant (5254m³) consisting of the following tanks: Tanks 1 to 19 (3533m³) Tank 20 (280m³) Tank 21 (435m³) Tank 22 (435m³) Tank 26 (56m³) Sump 27 / 28 (65m³) Tanks 33 a/b (20m³) Tanks 51 to 55 (153m³) Tank 56 (30m³) Tank 57 (30m³) Tank 58 (5m³) Tanks 60 to 63 (76m³) Tank 64 & 65 (40m³) Also some small storage vessels, filter presses</p>

and sumps (96m³)

In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank layout, in Appendix 1 of the variation application V002

Wastes specified in schedule 3, table S3.3

D15, applies to storage prior to mixing or blending and/or physico-chemical treatment.

D15, Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced)

R12, Exchange of wastes for submission to any of the operations R1 to R11

R13, Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).

Transfer Facility (500 tonnes)

Wastes specified in schedule 3, table S3.5

D15, applies to the storage of hazardous wastes pending treatment, classification and segregation into waste types during storage.

R12, applies to the following waste types: mixed paint tins, oil rags, flammable rags, flammable smalls, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), oil and mercury liquid and metal bearing acids.

R13, applies to the following waste types: flammable paint tins, oil filters, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), waste electrical and electronic equipment (WEEE), empty plastics, empty metal, metal bearing acids, fire extinguishers and gas cylinders..

R13, Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

Waste Oil Treatment Plant (986m³) consisting of the following tanks:

Tank 21 (468 tonnes)

Tank 22 (468 tonnes)

Tank 26 (50 tonnes)

In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank layout, in Appendix 1 of the variation application V002

Wastes specified in schedule 3, table S3.4

R13, applies to the storage of oils for onward recovery

<p>S5.4 A(1)(a)(ii)</p>	<p>D9, Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12</p> <p>D13, Blending or mixing prior to submission to any of the operations numbered D1 to D12</p> <p>D15, Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced).</p>	<p>Treatment Plant (5254m³) consisting of the following tanks: Tanks 1 to 19 (3533m³) Tank 20 (280m³) Tank 21 (435m³) Tank 22 (435m³) Tank 26 (56m³) Sump 27 / 28 (65m³) Tanks 33 a/b (20m³) Tanks 51 to 55 (153m³) Tank 56 (30m³) Tank 57 (30m³) Tank 58 (5m³) Tanks 60 to 63 (76m³) Tank 64 & 65 (40m³) Also some small storage vessels, filter presses and sumps (96m³) In the location specified in the site drawing, Figure 6(A) Drawing showing storage and treatment tank layout, in Appendix 1 of the variation application V002</p> <p>Wastes specified in schedule 3, table S3.3</p> <p>D9, applies to physico-chemical treatment, specifically: neutralisation, precipitation, flocculation, saponification, filtration, oxidation, reduction and stabilisation</p> <p>D13, applies to mixing or blending compatible wastes prior to physico-chemical treatment.</p> <p>D15, applies to storage prior to mixing or blending and/or physico-chemical treatment.</p>
<p>Directly Associated Activity</p>		
<p>Cleaning of road tanker vessels & subsequent treatment of aqueous liquids generated from on-site washing through the treatment plant.</p>	<p>Process Building (total 20 tonnes) In the location specified in site diagram, Figure 3(A) Site diagram showing regulated facility activities, in Appendix 1 of the variation application V002</p>	<p>Only tankers that have contained the wastes specified in schedule 3, tables S3.3, S3.4 and S3.5.</p>
<p>Storage of non-hazardous wastes pending treatment, classification and segregation into waste types during storage.</p>	<p>D15, Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced).</p> <p>R12, Exchange of wastes for submission to any of the operations R1 to R11</p> <p>R13, Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Transfer facility (500 tonnes)</p> <p>Waste specified in schedule 3, table S3.5</p> <p>R12, applies to the following waste codes: mixed paint tins, oil rags, flammable rags, flammable smalls, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), oil and mercury liquid and metal bearing acids.</p> <p>R13, applies to the following waste types: flammable paint tins, oil filters, flammable for recovery (IBCs / 205), flammable for secondary liquid fuel (SLF), waste electrical and electronic equipment (WEEE), empty plastics, empty metal, metal bearing acids, fire extinguishers and gas cylinders..</p>
<p>Container washing, shredding and crushing and compaction of nominally empty drums and containers</p>	<p>R3, Recycling/reclamation of organic substances which are not used as solvents (including</p>	<p>Transfer Facility (50 tonnes)</p> <p>In the location specified in site drawing,</p>

	composting and or other biological transformation processes).	Figure 3(C) Detail of transfer station, in Appendix 1 of the variation application V002.
	R4 , Recycling/reclamation of metals and metal compounds	Specified waste 15 01 10* packaging containing residues of or contaminated by dangerous substances.
	R13 , Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	R3 , applies to the recovery of plastic and plastic packaging R4 , applies to the recovery of metal and metal packaging R13 , applies to empty plastics and empty metal
Pre-treatment of wastes containing residual metallic components, using microfiltration	R4 , Recycling/reclamation of metals and metal compounds. R5 , Recycling/reclamation of other inorganic materials	Process building – pre-treatment of waste prior to physico-chemical treatment, pressing and release of effluent via settlement tank (T7), and subsequently to sewer
Lime silo	Storage of lime	Storage of lime for use in the treatment process
Biological treatment	Biological treatment of non-hazardous waste and process effluent.	Biological treatment of <50 tonnes/day of non-hazardous waste and process effluent.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions B2.1.1 to B2.1.23 and B2.2.1 to B2.2.41 given in pages 11 to 37 of the application. Excluding reference to appendix 6 in section B2.1.1, section B2.1.15, B2.1.18, B2.1.24, B2.2.8, B2.2.17 to B2.2.20, B2.2.25 to B2.2.32, and B2.2.35 to B2.2.40 given in pages 18 to 36 of the application.	24/08/05
Request for further information	Appendix 18 of the application, Regulated facility details, section C2.4.4, Control of point source emissions to air.	12/05/06 and 15/05/06
Variation application EPR/SP3531SK/V002	The response to questions C2.1 to C2.12 given in sections 7 to 17 of the variation application.	27/06/08
Variation application EPR/SP3531SK/V003	Response to questions 1,2 and 3 of Appendix 6 of the application form	06/04/10
Variation application EPR/SP3531SK/V006	"Document 1" provided in response to application from C2, Question 2b, describing the recovery activities associated with the new waste recovery codes.	19/04/13
Response to Schedule 5 Request for Further Information	The response to question 1 clarifying the handling arrangements for empty metal and empty plastics.	08/07/13

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The Operator shall produce and implement an infrastructure maintenance and improvement plan. The written procedures (and any amendments to them) shall accord with section 2.3 (Management) of Sector Guidance Note S5.06, December 2004 and shall be submitted to the Agency for approval.	Complete
IC2	The Operator shall develop and implement procedures and checks to ensure bulk storage structures and associated pipework and fittings are constructed, adequately labelled, inspected and maintained and 'fit for purpose' in accordance with section 2.1.3 (Waste Storage) IPPC Sector Guidance Note S5.06, December 2004. The Operator shall also review any redundant pipework and where appropriate, arrange for decontamination, capping and/or removal of pipework.	01/06/09
IC3	The Operator shall assess the risk of flooding to operational areas of the site and provide and implement a flood risk action plan with procedures to mitigate the impacts of polluting substances entering controlled waters. The flood risk action plan shall be submitted to the Environment Agency in writing for approval.	Complete
IC4	The Operator shall undertake an assessment of the procedures for process control and monitoring of physico-chemical treatment processes carried out within the main process building. The assessment shall take into account the requirements of section 2.1.4 (Treatment – general principles) of the Agency Guidance Note IPPC S5.06, December 2004. A written report summarising the findings, and a timescale for the implementation of any improvements, shall be submitted to the Agency in writing for approval.	Complete
IC5	The Operator shall investigate the need to carry out works to prevent sewer water from re-entering the effluent discharge pipe within the regulated facility boundary. Written proposals for the works to be carried out, their operational details and a timetable for their implementation shall be submitted to the Agency in writing for approval prior to their construction.	Complete
IC6	The Operator shall assess the emissions from the scrubbing system at emission point A1, under a range of operating situations, and shall submit proposals to the Agency in writing for such monitoring as appears to be necessary.	Ongoing (see IC11)
IC7	The Operator shall provide covering for all open topped storage and treatment vessels within the process building in accordance with Section 2.1.3 (Waste Storage) of the Agency Guidance Note IPPC S5.06, December 2004.	31/12/2008
IC8	The Operator shall install level meters with both audible and visual high-level alarms for all storage and treatment vessels within the process building in accordance with Section 2.1.3 (Waste Storage) of the Agency Guidance Note IPPC S5.06, December 2004	Complete
IC9	The Operator shall install Local Exhaust Ventilation (LEV) in a designated location within the transfer facility where containerised wastes are to be repackaged, decanted or bulked up in accordance with Section 2.1.3 (Waste Storage) of the Agency Guidance Note IPPC S5.06, December 2004. The Operator shall provide a plan to the Agency showing the location of the emission point from the LEV extraction system and shall submit proposals for emissions abatement for approval by the Agency.	Complete
IC10	The Operator shall assess the current method for effluent flow with the requirements given in the MCERTS standard 'Minimum requirements for the self-monitoring of effluent flow' version 2, Aug 2004. A written report shall be provided to the Agency detailing how this standard is to be achieved and shall include timescales for implementation.	31/12/2008
IC11	The Operator shall review the current method of measuring scrubber performance and submit a written report to the Agency, to include details of the monitoring method, any relevant procedures and / or standards, the analytical suite tested for and a summary of results from the first 6 months of sampling.	28/11/2008

Table S1.4 Appropriate measures for odour

Measure	Dates
An odour management plan shall be submitted to the Agency, detailing the measures to be used to control emissions of odour and shall be accordance with Appendix 7 (template for an odour management plan) of Horizontal Guidance Note H4 (Horizontal Guidance for Odour (Part 1)).	The plan shall be submitted by 01/07/07
The plan shall be implemented by the operator from the date of approval in writing by the Agency	

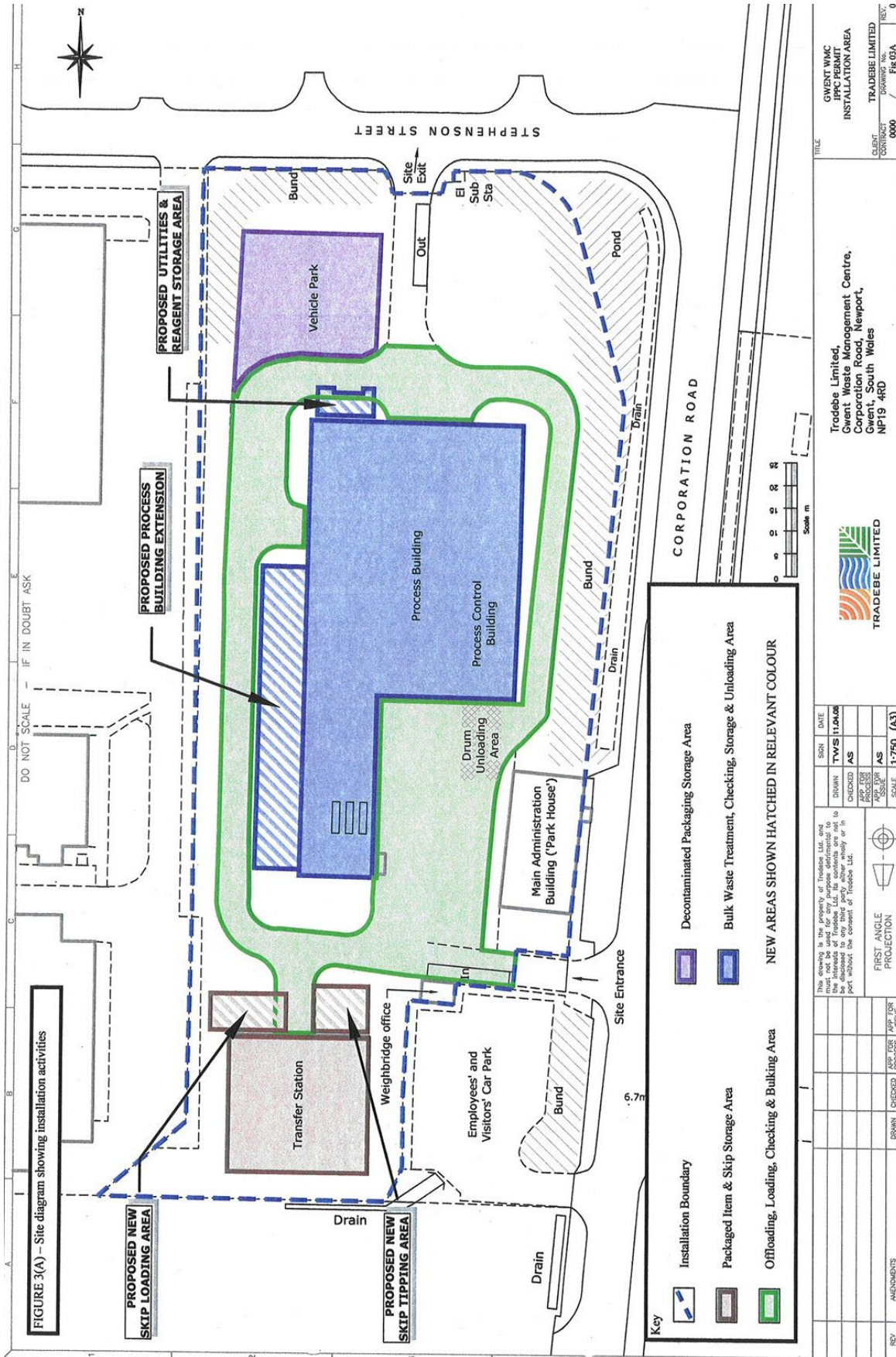
Table S1.5 Appropriate measures for drum cleaning, crushing, cutting and shredding

Measure	Dates
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.	01/01/08
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.	01/01/08

Table S1.6 Pre-operational measures

Reference	Pre-operational measures
1	The operation of the biological treatment activity shall not be permitted unless in accordance with a method statement agreed in writing with the Agency. The method statement shall include (as appropriate) details of the proposed waste types, equipment, method of operation, monitoring and recording of treatment, waste disposal and the precautions taken to prevent pollution of the environment, harm to human health and serious detriment to the amenity of the locality.
2	The Operator shall provide 28 days written notice to the Agency of plans to commission any new operations relating to variation application no. EA/EPR/SP3531SK/V002.
3	At the commissioning phase of any new operations, monitoring of the relevant internal emission point will take place. The findings and a proposed monitoring regime must be agreed in writing with the Agency prior to commencement of the new operation.

Schedule 2 - Site plan



TITLE
 GWENT WMC
 IPPC PERMIT
 INSTALLATION AREA

CLIENT
 TRADEBE LIMITED
 0000 / Pg.00A
 REV. 0



Tradebe Limited,
 Gwent Waste Management Centre,
 Corporation Road, Newport,
 Gwent, South Wales
 NP19 4RD

REV	AMENDMENTS	DOWN	CHECKED	APP FOR PROCESS	APP FOR ISSUE

DATE	DATE	DATE	DATE
TWS 11/04/08	AS	AS	AS

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FIRST ANGLE PROJECTION

Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

Raw materials and fuel description	Specification
“ _ “	

Table S3.2 Permitted waste types and quantities for Transfer Facility

Maximum quantity	500 tonnes
Waste codes	Description
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 09	Red mud from alumina production other than the wastes mentioned in 01 03 07
01 03 99	Wastes not otherwise specified
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 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 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 01 01	Sludges from washing and cleaning
02 01 04	Waste plastics (except packaging)
02 01 08*	agrochemical waste containing dangerous substances
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 01 10	Waste metal
02 02 01	sludges from washing and cleaning
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03 01	sludges from washing, cleaning, peeling centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04 02	Off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site treatment plant
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 01	wastes from washing, cleaning and mechanical reduction of raw materials
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 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 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 05	De-inking sludges from paper recycling
03 03 09	Lime mud waste
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
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 01 08	Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing Chromium
04 01 09	Wastes from dressing and finishing
04 02 09	Wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	Organic matter from natural products (for example, grease wax)

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 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 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 01 16	Sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06 01*	acid tars
05 06 03*	other tars
05 06 04	waste from cooling columns
05 07 01*	wastes containing mercury
05 07 02	Wastes containing sulphur
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 01*	calcium hydroxide
06 02 03*	ammonium hydroxide
06 02 04*	sodium and potassium hydroxide
06 02 05*	other bases
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 containing 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 03*	wastes containing arsenic
06 04 04*	wastes containing mercury
06 04 05*	wastes containing other heavy metals
06 05 02*	sludges from on-site effluent treatment containing dangerous substances
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 02*	wastes containing dangerous sulphides
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02

06 0701*	wastes containing asbestos from electrolysis
06 0702*	activated carbon from chlorine production
06 0703*	barium sulphate sludge containing mercury
06 0704*	solutions and acids, for example contact acid
06 0802*	wastes containing dangerous silicones
06 0903*	calcium-based reaction wastes containing or contaminated with dangerous substances

Table S3.2 Permitted waste types and quantities for Transfer Facility

06 0904	calcium-based reaction wastes other than those mentioned in 06 09 03
06 1002*	wastes containing dangerous substances
06 1101	calcium-based reaction wastes from titanium dioxide production
06 1301*	inorganic plant protection products, wood-preserving agents and other biocides.
06 1302*	spent activated carbon (except 06 07 02)
06 1302*	Carbon black
06 1304*	wastes from asbestos processing
06 1305*	soot
07 0101*	aqueous washing liquids and mother liquors
07 0103*	organic halogenated solvents, washing liquids and mother liquors
07 0104*	other organic solvents, washing liquids and mother liquors
07 0107*	halogenated still bottoms and reaction residues
07 0108*	other still bottoms and reaction residues
07 0109*	halogenated filter cakes and spent absorbents
07 0110*	other filter cakes and spent absorbents
07 0111*	sludges from on-site effluent treatment containing dangerous substances
07 0112	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 0201*	aqueous washing liquids and mother liquors
07 0203*	organic halogenated solvents, washing liquids and mother liquors
07 0204*	other organic solvents, washing liquids and mother liquors
07 0207*	halogenated still bottoms and reaction residues
07 0208*	other still bottoms and reaction residues
07 0209*	halogenated filter cakes and spent absorbents
07 0210*	other filter cakes and spent absorbents
07 0211*	sludges from on-site effluent treatment containing dangerous substances
07 0212	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 0213	Waste plastic
07 0214*	wastes from additives containing dangerous substances
07 0215	wastes from additives other than those mentioned in 07 02 14
07 0216*	wastes containing dangerous silicones
07 0217	waste containing silicones other than those mentioned in 07 02 16
07 0301*	aqueous washing liquids and mother liquors
07 0303*	organic halogenated solvents, washing liquids and mother liquors
07 0304*	other organic solvents, washing liquids and mother liquors
07 0307*	halogenated still bottoms and reaction residues
07 0308*	other still bottoms and reaction residues
07 0309*	halogenated filter cakes and spent absorbents
07 0310*	other filter cakes and spent absorbents
07 0311*	sludges from on-site effluent treatment containing dangerous substances
07 0312	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 0401*	aqueous washing liquids and mother liquors
07 0403*	organic halogenated solvents, washing liquids and mother liquors
07 0404*	other organic solvents, washing liquids and mother liquors
07 0407*	halogenated still bottoms and reaction residues
07 0408*	other still bottoms and reaction residues
07 0409*	halogenated filter cakes and spent absorbents
07 0410*	other filter cakes and spent absorbents
07 0411*	sludges from on-site effluent treatment containing dangerous substances
07 0412	sludges from on-site effluent treatment other than those mentioned in 07 04 11

Table S3.2 Permitted waste types and quantities for Transfer Facility

07 04 13*	solid wastes containing dangerous substances
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 05 14	solid wastes other than those mentioned in 07 05 13
07 06 01*	aqueous washing liquids and mother liquors
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 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 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 and 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 19
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 01	waste coating powders
08 02 02	aqueous sludges containing ceramic materials
08 02 03	aqueous suspensions containing ceramic materials
08 03 07	aqueous sludges containing ink

Table S3.2 Permitted waste types and quantities for Transfer Facility

08 03 08	aqueous liquid waste containing ink
08 03 12*	waste ink containing dangerous substances
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 18	waste printing toner other than those mentioned in 08 03 17
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*	waste adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12	waste adhesive and sealant sludges other than those mentioned in 08 03 11
08 04 13*	aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances
08 04 14	aqueous sludges containing adhesives and 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 and sealants other than those mentioned in 08 04 15
08 04 16	Rosin oil
08 05 01*	waste isocyanates
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 10	Single-use cameras without batteries
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 01 04*	oil fly ash and boiler dust
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
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 26	wastes from cooling-water treatment
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 10	Mill scales
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 S3.2 Permitted waste types and quantities for Transfer Facility

10 0302	anode scraps
10 0304*	primary production slags
10 0308*	salt slags from secondary production
10 0309*	black drosses from secondary production
10 0315*	skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 0317*	tar-containing wastes from anode manufacture
10 0319*	flue-gas dust containing dangerous substances
10 0321*	other particulates and dust (including ball-mill dust) containing dangerous substances
10 0322	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 0323*	solid wastes from gas treatment containing dangerous substances
10 0325*	sludges and filter cakes from gas treatment containing dangerous substances
10 0326	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 0327*	wastes from cooling-water treatment containing oil
10 0328	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 0329*	wastes from treatment of salt slags and black drosses containing dangerous substances
10 0401*	slags from primary and secondary production
10 0402*	dross and skimmings from primary and secondary production
10 0403*	calcium arsenate
10 0404*	flue-gas dust
10 0405*	other particulates and dust
10 0406*	solid wastes from gas treatment
10 0407*	sludges and filter cakes from gas treatment
10 0409*	wastes from cooling-water treatment containing oil
10 0410	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 0503*	flue-gas dust
10 0505*	solid waste from gas treatment
10 0506*	sludges and filter cakes from gas treatment
10 0508*	wastes from cooling-water treatment containing oil
10 0509	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 0510*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 0603*	flue-gas dust
10 0606*	solid wastes from gas treatment
10 0607*	sludges and filter cakes from gas treatment
10 0609*	wastes from cooling-water treatment containing oil
10 0610	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 0707*	wastes from cooling-water treatment containing oil
10 0708	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 0810*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 0812*	tar-containing wastes from anode manufacture
10 0815*	flue-gas dust containing dangerous substances
10 0817*	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 0819*	wastes from cooling-water treatment containing oil
10 0820	wastes from cooling-water treatment other than those mentioned in 10 08 19

Table S3.2 Permitted waste types and quantities for Transfer Facility

10 0905*	casting cores and moulds which have not undergone pouring containing dangerous substances
10 0907*	casting cores and moulds which have undergone pouring containing dangerous substances
10 0909*	flue-gas dust containing dangerous substances
10 0911*	other particulates containing dangerous substances
10 0915*	waste crack-indicating agent containing dangerous substances
10 1005*	casting cores and moulds which have not undergone pouring, containing dangerous substances
10 1007*	casting cores and moulds which have undergone pouring, containing dangerous substances
10 1009*	flue-gas dust containing dangerous substances
10 1011*	other particulates containing dangerous substances
10 1013*	waste binders containing dangerous substances
10 1015*	waste crack-indicating agent containing dangerous substances
10 1016	waste crack-indicating agent other than those mentioned in 10 10 15
10 1109*	waste preparation mixture before thermal processing, containing dangerous substances
10 1111*	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 1113*	glass-polishing and -grinding sludge containing dangerous substances
10 1115*	solid wastes from flue-gas treatment containing dangerous substances
10 1117*	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 1118	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 1119*	solid wastes from on-site effluent treatment containing dangerous substances
10 1120	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 1209*	solid wastes from gas treatment containing dangerous substances
10 1211*	wastes from glazing containing heavy metals
10 1213	sludge from on-site effluent treatment

Table S3.2 Permitted waste types and quantities for Transfer Facility

10 1309*	wastes from asbestos-cement manufacture containing asbestos
10 13 12*	solid wastes from gas treatment containing dangerous substances
11 0105*	pickling acids
11 0106*	acids not otherwise specified
11 0107*	pickling bases
11 0108*	phosphatising sludges
11 0109*	sludges and filter cakes containing dangerous substances
11 0110	sludges and filter cakes other than those mentioned in 11 01 09
11 0111*	aqueous rinsing liquids containing dangerous substances
11 0112	aqueous rinsing liquids other than those mentioned in 11 01 11
11 0113*	degreasing wastes containing dangerous substances
11 0114	degreasing wastes other than those mentioned in 11 01 13
11 0115*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 0116*	saturated or spent ion exchange resins
11 0198*	other wastes containing dangerous substances
11 0202*	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 0205*	wastes from copper hydrometallurgical processes containing dangerous substances
11 0207*	other wastes containing dangerous substances
11 0301*	wastes containing cyanide
11 0302*	other wastes
11 0503*	solid wastes from gas treatment
11 0504*	spent flux
11 0505	Plastics shavings and turnings
12 0106*	mineral-based machining oils containing halogens (except emulsions and solutions)
12 0107*	mineral-based machining oils free of halogens (except emulsions and solutions)
12 0108*	machining emulsions and solutions containing halogens
12 0109*	machining emulsions and solutions free of halogens
12 0110*	synthetic machining oils
12 0112*	spent waxes and fats
12 0114*	machining sludges containing dangerous substances
12 0115	machining sludges other than those mentioned in 12 01 14
12 0116*	waste blasting material containing dangerous substances
12 0117	waste blasting material other than those mentioned in 12 01 16
12 0118*	metal sludge (grinding, honing and lapping sludge) containing oil
12 0119*	readily biodegradable machining oil
12 0120*	spent grinding bodies and grinding materials containing dangerous substances
12 0121	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
12 0301*	aqueous washing liquids
12 0302*	steam degreasing wastes
13 01 01*	Hydraulic oils, containing PCBs
13 01 10*	mineral based non-chlorinated hydraulic oil
13 01 11*	synthetic hydraulic oil
13 0205*	mineral based non-chlorinated engine, gear and lubricating oil
13 0207*	readily biodegradable engine, gear and lubricating oil
13 0208*	other engine, gear and lubricating oil
13 0301*	Insulating or heat transmission oils containing PCBs
13 0306*	Mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 0307*	Mineral-based non-chlorinated insulating and heat transmission oils
13 0310*	other insulating and heat transmission oils
13 0403*	Bilge oils from other navigation

13 0501*	solids from grit chambers and oil/water separators
13 0503*	interceptor sludges
13 0506*	oil from oil/water separators
13 0507*	oily water from oil/water separators

Table S3.2 Permitted waste types and quantities for Transfer Facility

13 0701*	fuel oil and diesel
13 0703*	other fuels (including mixtures)
13 0801*	desalter sludges or emulsions
13 0802*	other emulsions
14 0601*	chlorofluorocarbons, HCFC, HFC
14 0602*	other halogenated solvents and solvent mixtures
14 0603*	other solvents and solvent mixtures
14 0604*	sludges or solid wastes containing halogenated solvents
14 0605*	sludges or solid wastes containing other solvents
15 0101	paper and cardboard packaging
15 0102	Plastic packaging
15 0103	Wooden packaging
15 0104	metallic packaging
15 0106	mixed packaging
15 0107	glass packaging
15 0110*	packaging containing residues of or contaminated by dangerous substances
15 0111*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
15 0202*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
15 0203	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16 0103	End-of-life tyres
16 0107*	oil filters
16 0108*	components containing mercury
16 0109*	components containing PCBs
16 0111*	brake pads containing asbestos
16 0112	brake pads other than those mentioned in 16 01 11
16 0113*	brake fluids
16 0114*	antifreeze fluids containing dangerous substances
16 0115	antifreeze fluids other than those mentioned in 16 01 14
16 0119	plastic
16 0121*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 0210*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 0211*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 0212*	discarded equipment containing free asbestos
16 0213*	discarded equipment containing hazardous components ¹ other than those mentioned in 16 02 09 to 16 02 12
16 0214	discarded equipment other than those mentioned in 16 02 09 and 16 02 13
16 0215*	hazardous components removed from discarded equipment
16 0216	Components removed from discarded equipment other than those mentioned in 16 02 15
16 0303*	inorganic wastes containing dangerous substances
16 0304	inorganic wastes other than those mentioned in 16 03 03
16 0305*	organic wastes containing dangerous substances
16 0306	organic wastes other than those mentioned in 16 03 05

¹ Hazardous components from electrical and electronic equipment may include accumulators and batteries mentioned in 16 06 and marked as hazardous; mercury switches, glass from cathode ray tubes and other activated glass, etc.

Table S3.2 Permitted waste types and quantities for Transfer Facility

16 0504*	gases in pressure containers (including halons) containing dangerous substances
16 0505	gases in pressure containers other than those mentioned in 16 05 04
16 0506*	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 0507*	discarded inorganic chemicals consisting of or containing dangerous substances
16 0508*	discarded organic chemicals consisting of or containing dangerous substances
16 0601*	Lead batteries
16 0602*	Ni-Cd batteries
16 0603*	mercury-containing batteries
16 0604	Alkaline batteries (except 16 06 03)
16 0606*	separately collected electrolyte from batteries and accumulators
16 0608*	Waste containing oil
16 0709*	wastes containing other dangerous substances
16 0801	Spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 0802*	spent catalysts containing dangerous transition metals ² or dangerous transition metal compounds
16 0803	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 0805*	spent catalysts containing phosphoric acid
16 0806*	spent liquids used as catalysts
16 0807*	spent catalysts contaminated with dangerous substances
16 0901*	permanganates, for example potassium permanganate
16 0902*	chromates, for example potassium chromate, potassium or sodium dichromate
16 0903*	peroxides, for example hydrogen peroxide
16 1001*	aqueous liquid wastes containing dangerous substances
16 1002	aqueous liquid waste other than those mentioned in 16 10 01
16 1003*	aqueous concentrates containing dangerous substances
16 1004	aqueous concentrates other than those mentioned in 16 10 03
16 1101*	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 1103*	other linings and refractories from metallurgical processes containing dangerous substances
16 1105*	linings and refractories from non-metallurgical processes containing dangerous substances
17 0204*	Glass, plastic and wood containing or contaminated with dangerous substances
17 0403	lead
17 0503*	Soil and stones containing dangerous substances
17 0601*	Insulation materials containing asbestos
17 0605*	Construction materials containing asbestos
18 0106*	chemicals consisting of or containing dangerous substances
18 0205*	chemicals consisting of or containing dangerous substances
19 0105*	filter cake from gas treatment
19 0106*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 0107*	solid wastes from gas treatment
19 0110*	spent activated carbon from flue-gas treatment
19 0111*	bottom ash and slag containing dangerous substances
19 0113*	fly ash containing dangerous substances
19 0115*	boiler dust containing dangerous substances
19 0117*	pyrolysis wastes containing dangerous substances
19 0203	premixed wastes composed only of non-hazardous wastes
19 0204*	premixed wastes composed of at least one hazardous waste
19 0205*	sludges from physico/chemical treatment containing dangerous substances
19 0206	sludges from physico/chemical treatment other than those mentioned in 19 02 05

² For the purpose of this entry, transition metals are: scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum. These metals or their compounds are dangerous if they are classified as dangerous substances. The classification of dangerous substances shall determine which among those transition metals and which transition metal compounds are hazardous.

Table S3.2 Permitted waste types and quantities for Transfer Facility	
19 0207*	oil and concentrates from separation
19 0208*	liquid combustible wastes containing dangerous substances
19 0209*	solid combustible wastes containing dangerous substances
19 0211*	other wastes containing dangerous substances
19 0304*	wastes marked as hazardous, partly ³ stabilised
19 0306*	wastes marked as hazardous, solidified
19 0402*	fly ash and other flue-gas treatment wastes
19 0403*	non-vitrified solid phase
19 0404	aqueous liquid wastes from vitrified waste tempering
19 0402*	fly ash and other flue-gas treatment wastes
19 0603	liquor from anaerobic treatment of municipal waste
19 0604	digestate from anaerobic treatment of municipal waste
19 0605	liquor from anaerobic treatment of animal and vegetable waste
19 0606	digestate from anaerobic treatment of animal and vegetable waste
19 0702*	landfill leachate containing dangerous substances
19 0703	landfill leachate other than those mentioned in 19 07 02
19 0805	sludges from treatment of urban waste water
19 0806*	saturated or spent ion exchange resins
19 0807*	solutions and sludges from regeneration of ion exchangers
19 0808*	membrane system waste containing heavy metals
19 0809	grease and oil mixture from oil/water separation containing only edible oil and fats
19 0810*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
19 0811*	sludges containing dangerous substances from biological treatment of industrial waste water
19 0812	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 0813*	sludges containing dangerous substances from other treatment of industrial waste water
19 0814	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 0902	sludges from water clarification
19 0903*	other construction and demolition wastes (including mixed wastes) containing dangerous substances
19 0906	solutions and sludges from regeneration of ion exchangers
19 1003*	fluff-light fraction and dust containing dangerous substances
19 1005*	other fractions containing dangerous substances
19 1101*	spent filter clays
19 1102*	acid tars
19 1103*	aqueous liquid wastes
19 1104*	wastes from cleaning of fuel with bases
19 1105*	sludges from on-site effluent treatment containing dangerous substances
19 1106	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 1107*	wastes from flue-gas cleaning
19 1206*	wood containing dangerous substances
19 1211*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
19 1212	other wastes (including mixture of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

³ A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle or long term.

Table S3.2 Permitted waste types and quantities for Transfer Facility	
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
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 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 31*	cytotoxic and cytostatic medicines
20 01 33*	batteries and accumulators in 16 06 01, 16 06 02 or 06 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35*	discarded electrical equipment and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical equipment and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 37*	wood containing dangerous substances
20 01 39	plastics
20 01 40	metals
20 03 04	septic tank sludge

Table S3.3 Permitted waste types and quantities for Treatment Plant	
Maximum quantity	5407 tonnes
Waste codes	Description
01 03 04*	Acid-generating tailings from processing of sulphide ore
01 03 05*	other tailings containing dangerous substances
01 03 07*	Other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals
01 04 07*	waste containing dangerous substances from physical and chemical processing of non-metalliferous minerals
01 05 06*	drilling muds and other drilling wastes containing dangerous substances
02 01 08*	agrochemical waste containing dangerous substances
03 02 04*	Inorganic wood preservatives
03 02 05*	other wood preservatives containing dangerous substances
04 02 16*	dyestuffs and pigments containing dangerous substances
04 02 19*	sludges from on-site effluent treatment containing dangerous substances
05 01 05*	Oils spills
05 01 09*	sludges from on-site effluent treatment containing dangerous substances
05 01 11*	Wastes from cleaning fuels with bases
06 01 01*	sulphuric acid and sulphurous acid

06 01 02*	hydrochloric acid
06 01 03*	hydrofluoric acid

Table S3.3 Permitted waste types and quantities for Treatment Plant

06 01 04*	phosphoric and phosphorous acid
06 01 05*	nitric acid and nitrous acid
06 01 06*	other acids
06 02 01*	calcium hydroxide
06 02 03*	ammonium hydroxide
06 02 04*	sodium and potassium hydroxide
06 02 05*	other bases
06 03 15*	metallic oxides containing heavy metals
06 04 03*	wastes containing arsenic
06 04 04*	wastes containing mercury
06 04 05*	wastes containing other heavy metals
06 05 02*	sludges from on-site effluent treatment containing dangerous substances
06 07 04*	Solutions and acids, for example contact acid
06 09 03*	Calcium-based reaction wastes containing or contaminated with dangerous substances
06 10 02*	wastes containing dangerous substances
07 01 01*	aqueous washing liquids and mother liquors
07 01 11*	sludges from on-site effluent treatment containing dangerous substances
07 02 01*	aqueous washing liquids and mother liquors
07 02 11*	sludges from on-site effluent treatment containing dangerous substances
07 03 01*	aqueous washing liquids and mother liquors
07 03 11*	sludges from on-site effluent treatment containing dangerous substances
07 04 01*	aqueous washing liquids and mother liquors
07 04 11*	sludges from on-site effluent treatment containing dangerous substances
07 05 01*	aqueous washing liquids and mother liquors
07 05 08*	other still bottoms and reaction residues
07 05 11*	sludges from on-site effluent treatment containing dangerous substances
07 06 01*	aqueous washing liquids and mother liquors
07 06 11*	sludges from on-site effluent treatment containing dangerous substances
07 07 01*	aqueous washing liquids and mother liquors
07 07 11*	sludges from on-site effluent treatment containing dangerous substances
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances
08 01 15*	aqueous sludges containing paint and varnish containing organic solvents or other dangerous substances
08 01 17*	waste from paint and varnish removal containing organic solvents or other dangerous substances
08 03 12*	waste ink containing dangerous substances
08 03 14*	Ink sludges containing dangerous substances
08 03 16*	waste etching solution
09 01 01*	water-based developer and activator solutions
09 01 02*	water-based offset plate 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 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
10 01 09*	sulphuric acid
10 01 16*	fly ash from co-incineration containing dangerous substances
10 01 18*	wastes from gas cleaning containing dangerous substances
10 01 20*	sludges from on-site effluent treatment containing dangerous substances
10 01 22*	aqueous sludges from boiler cleansing containing dangerous substances
10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances
10 04 07*	sludges and filter cakes from gas treatment

10 05 06*	sludges and filter cakes from gas treatment
10 06 07*	sludges and filter cakes from gas treatment
10 11 17*	sludges and filter cakes from gas treatment
10 12 11*	wastes from glazing containing heavy metals
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 11*	aqueous rinsing liquids containing dangerous substances
11 01 13*	degreasing wastes containing dangerous substances
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 98*	other wastes containing dangerous substances
11 03 01*	wastes containing cyanide

Table S3.3 Permitted waste types and quantities for Treatment Plant	
12 01 04*	machining sludges containing dangerous substances
13 03 07*	Mineral-based non-chlorinated insulating and heat transmission oils
13 04 03*	Bilge oils from other navigation
16 03 03*	inorganic wastes containing dangerous substances
16 03 05*	organic wastes containing dangerous substances
16 05 06*	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08*	discarded organic chemicals consisting of or containing dangerous substances
16 07 09*	wastes containing other dangerous 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
16 10 01*	aqueous liquid wastes containing dangerous substances
16 10 03*	aqueous concentrates containing dangerous substances
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid 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 07 02*	landfill leachate containing dangerous substances
19 08 07*	solutions and sludges from regeneration of ion exchangers
19 08 08*	membrane system waste containing heavy metals
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 13*	sludges containing dangerous substances from other treatment of industrial waste water
19 12 11*	other waste (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
19 13 03*	sludges from soil remediation containing dangerous substances
19 13 05*	sludges from groundwater remediation containing dangerous substances
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 26*	Oil and fat other than those mentioned in 20 01 25

Table S3.4 Permitted waste types and quantities for Treatment Plant	
Maximum quantity	986 tonnes
Waste codes	Description
01 05 05*	oil-containing drilling muds and wastes
05 01 02*	desalter sludges
05 01 03*	tank bottom sludges
05 01 04*	acid alkyl sludges
05 01 05*	oil spills
08 03 19*	disperse oil
10 02 11*	wastes from cooling-water treatment containing oil
10 03 27*	wastes from cooling-water treatment containing oil
10 04 09*	wastes from cooling-water treatment containing oil
10 05 08*	wastes from cooling-water treatment containing oil
10 06 09*	wastes from cooling-water treatment containing oil
10 07 07*	wastes from cooling-water treatment containing oil
10 08 19*	wastes from cooling-water treatment containing oil

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 14*	machining sludges containing dangerous substances

12 01 19*	readily biodegradable machining oil
12 03 01*	aqueous washing liquids
12 03 02*	steam degreasing wastes
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 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 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 01*	bilge oils from inland navigation
13 04 02*	bilge oils from jetty sewers
13 04 03*	bilge oils from other navigation
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 01*	fuel oil and diesel
13 07 03*	other fuels (including mixtures)
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
16 01 13*	brake fluids
16 03 03*	inorganic wastes containing dangerous substances
16 03 05*	organic wastes containing dangerous substances
16 07 08*	wastes containing oil
16 10 01*	aqueous liquid wastes containing dangerous substances
16 10 03*	aqueous concentrates containing dangerous substances
19 02 07*	oil and concentrates from separation
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
20 01 26*	oil and fat other than those mentioned in 20 01 25

Table S3.5 Permitted non-hazardous waste types and quantities for storage and treatment

Maximum quantity	5727 tonnes
Waste codes	Description
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	Red mud from alumina production other than the wastes mentioned in 01 03 07
01 03 99	Wastes not otherwise specified
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 05 04	freshwater drilling muds and wastes
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 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 09	Agrochemical waste other than those mentioned in 02 01 08
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
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 03 99	wastes not otherwise specified
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
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 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 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from the pulping of waste paper and cardboard

Table S3.5 Permitted non-hazardous waste types and quantities for storage and treatment

03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
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 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dye-stuffs and pigments other than those mentioned in 04 02 16
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 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 17	bitumen
05 06 04	waste from cooling columns
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 01 12	waste paint and varnish other than those mentioned in 08 01 11,
08 01 14	sludges from paint and varnish other than those mentioned in 08 01 13
08 02 02	aqueous sludges containing ceramic materials
08 02 03	aqueous suspensions containing ceramic materials
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 26	wastes from cooling-water treatment
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19

10 12 01	waste preparation mixture before thermal processing
10 12 12	Wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13 01	waste preparation mixture before thermal processing
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14	degreasing wastes other than those mentioned in 11 01 13
12 01 15	machine sludges other than those mentioned in 12 01 14

Table S3.5 Permitted non-hazardous waste types and quantities for storage and treatment

16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 06	solutions and sludges from regeneration of ion exchangers
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20 01 25	Edible oil and fat
20 01 30	detergents other than those mentioned in 20 01 29
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning

Schedule 4 – Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Point A1 on figure 4 (B) air emissions location plan in appendix1 of the application.	No parameters set	Process building stack.	No limit set	--	--	Permanent sampling access not required
A2 Point A2 on figure 4 (B) air emissions location plan in appendix1 of the application.	No parameters set	Transfer facility local exhaust ventilation stack.	No limit set	--	--	Permanent sampling access not required
A3 Point A3 on figure 4 (B) air emissions location plan in appendix 1 of the application.	No parameters set	Administration building office heating boiler stack.	No limit set	--	--	Permanent sampling access not required

Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1, W2 and W3 on figure 5(A) water emissions points appendix 1 of the application.	No parameters set	Uncontaminated water from roofs of process and administration buildings.	No limit set	--	--	Permanent sampling access not required

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method ¹
S1 on figure 5(A) water emissions points appendix1 of the application	Ammonia, unionised, as N	Treatment plant within process building.	No limit set		Each batch	BS EN ISO 11732:1997
S1 on figure 5(A) water emissions points appendix1 of the application	Cyanide	Treatment plant within process building.	No limit set		Each batch	BS 6068-2.17:1986
S1 on figure 5(A) water emissions points appendix1 of the application	Suspended solids	Treatment plant within process building.	No limit set		Each batch	BS EN 872:1996, BS 6068-2.54:1996
S1 on figure 5(A) water emissions points appendix1 of the application	Flow	Treatment plant within process building.	No limit set		Continuous, reported as daily averages.	As agreed with the Agency
S1 on figure 5(A) water emissions points appendix1 of the application	Lead and its compounds (Total Pb)	Treatment plant within process building.	No limit set		Each batch	BS EN ISO 15586:2003 BS 6068-2.84:2003
S1 on figure 5(A) water emissions points appendix1 of the application	Nickel and its compounds (Total Ni)	Treatment plant within process building.	No limit set		Each batch	BS EN ISO 15586:2003 BS 6068-2.84:2003
S1 on figure 5(A) water emissions points appendix1 of the application	Zinc and its compounds (Total Zn)	Treatment plant within process building.	No limit set		Each batch	BS EN ISO 15586:2003 BS 6068-2.84:2003
S1 on figure 5(A) water emissions points appendix1 of the application	Chromium and its compounds (Total Cr)	Treatment plant within process building.	No limit set		Each batch	BS EN 1233:1997, BS 6068-2.38:1997
S1 on figure 5(A) water emissions points appendix1 of the application	Copper and its compounds (Total Cu)	Treatment plant within process building.	No limit set		Each batch	BS EN ISO 15586:2003 BS 6068-2.84:2003
S1 on figure 5(A) water emissions points appendix1 of the application	pH	Treatment plant within process building.	No limit set		Each batch	BS 6068-2.50:1995, ISO 10523: 1994.

Note 1: or to a relevant EN, BS, ISO or SCA blue book method as agreed with the Agency.

Table S4.8 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method ¹	Other specifications
SC1 secondary scrubber on figure 4 (A) air monitoring, air emission and process air points in appendix 1 of the variation application.	pH	Daily	BS 6068-2.50:1995, ISO 10523:1994.	pH ≥ 10
SC2 primary alkali scrubber on figure 4 (A) air monitoring, air emission and process air points in appendix 1 of the variation application.	pH	Daily	BS 6068-2.50:1995, ISO 10523:1994.	pH ≤ 5
SC3 primary acid scrubber on figure 4 (A) air monitoring, air emission and process air points in appendix 1 of the variation application.	pH	Daily	BS 6068-2.50:1995, ISO 10523:1994.	pH ≥ 10
SC5 primary ammonia scrubber on figure 4(A) air monitoring, air emission and process air points in appendix 1 of the variation application.	pH	Weekly	BS 6068-2.50:1995, ISO 10523:1994.	pH ≤ 7

Footnote ¹ or to a relevant EN, BS, ISO or SCA blue book method as agreed with the Agency.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to sewer Parameters as required by condition 3.6.1.	S1	Every 3 months	01/07/06
Emissions to A1* Parameters as required by condition 3.6.1	SC1, SC2, SC3 & SC5	Every 6 months	01/01/09

* To be confirmed in writing with the Agency, on completion of IC11

Table S5.2: Annual production/treatment

Parameter	Units
Treatment residues where disposal is to a non-hazardous waste landfill site.	tonnes
Treatment residues where disposal is to a hazardous landfill waste landfill site.	tonnes

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Mains water usage	Annually	m ³
Energy usage	Annually	MWh
Total raw material used.	Annually	tonnes

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	01/06/06
Scrubber liquor	Form SC1 or other form as agreed in writing by the Agency	01/01/09
Water usage	Form water usage1 or other form as agreed in writing by the Agency	01/06/06
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	01/06/06
Waste	Waste returns reporting form WMS1 & WMS3	01/06/06
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	01/06/06

Schedule 6 - 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 2010.

Part A

Permit Number	SP3531SK
Name of operator	United Utilities (Gwent) Limited
Location of Regulated facility	Corporation Road Newport Gwent NP19 4RD
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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	
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 regulated facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of United Utilities Industrial (Gwent) Limited

Schedule 7 - Interpretation

"*accident*" means an accident that may result in pollution.

"*accident management plan*" means a documented procedure (or procedures) that set out the measures necessary to prevent accidents occurring within the permitted regulated facility, during both normal and abnormal operations, and limit the consequences to human health or the environment of any such accidents that do occur.

"*annually*" means once every year.

"*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 4 to the PPC Regulations.

"*authorised officer*" means any person authorised by the 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.

"*disposal*" shall mean any of the operations provided for in Annex IIA to Directive 75/442/EEC.

"*emissions to land*", includes emissions to groundwater.

"*fugitive emission*" means an emission to air, water or land from the activities which is not controlled by an emission limit.

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

"*land protection guidance*", means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*notify without delay*" and "*notified without delay*" mean that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

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"*recovery*" shall mean any of the operations provided for in Annex IIB to Directive 75/442/EEC.

"*relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

“technically competent management” and *“technical competence”* shall have the meanings given to them in the Environmental Protection Act 1990.

“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.

“WFD” means Waste Framework Directive (75/442/EEC).

“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

END OF PERMIT