



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Bacon Lane Waste Treatment Facility

Castle Waste Services Limited
Arden Works
Bacon Lane
Attercliffe
Sheffield
S9 3NH

Permit number

YP3632SA

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Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate part of an installation carrying out activities covered by the description in Section 5.3 A(1)(a), 5.3 A(1)(c)(ii) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 5.3 A(1)(a) - "The disposal of hazardous waste (other than by incineration or landfill) in a facility with a capacity of more than 10 tonnes per day"

Section 5.3 A(1)(c)(ii) – "Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment, not being treatment specified in any paragraph other than paragraph D9 in Annex IIA to Council Directive 75/442/EEC, which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 in that Annex (for example, evaporation, drying, calcination, etc.) (D9)"

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows.

The permitted installation comprises of two separate facilities. This permit relates to the facility operated by Castle Waste Services Limited. E F Westaway Ltd operates the other facility, separately permitted as TP3538D. The Castle Waste Services facility consists primarily of an indoor bunded effluent treatment plant (ETP), which accepts and treats both commercial wastes from third parties, and waste generated by the E F Westaway's metal treatment plant to which it is technically connected. The facility also includes an indoor storage area for the storage of wastes in containers prior to treatment. The Castle Waste Services Limited site boundary includes the external bunded offloading pad, site laboratory, associated office, storage areas and the connection to the foul sewer. The entire installation covers an area of approximately 6300m².

An unnamed road borders the facility on the southeast side, which leads onto Bacon Lane. The foul sewer runs the length of this unnamed road and which also contains the offloading pad. To both ends it is bordered by other industrial units and on the northwest side the site is bordered by the Sheffield and Tinsley canal. The site drains to a foul sewer, with roof drains on one side of the building draining directly to the canal. The site is currently regulated under a waste management licence held by E F Westaway Ltd, however, under the terms of the PPC regulations it is not deemed a specified waste management activity.

The site accepts acidic wastes which are treated by neutralisation by a mixture of waste alkali and lime. The majority of these materials are delivered in bulk, either by tanker, or by pipeline from E F Westaway Ltd. Some materials are delivered to site in containers ranging in size from 25 to 2000 litres. These are stored in a dedicated storage area and then transferred in their containers to the offloading pad, from where they are then pumped into storage tanks. Waste acids come partially from the E F Westaway facility and comprise both spent pickling acid and rinse waters, and partially from third party waste producers and companies. Wastes alkalis come either directly from the waste producer or via waste companies and all lime used is virgin lime. Lime is made up into slurry prior to use, by mixing it with either waste alkali solutions, or filtrate generated by the reaction process on site. The acid is then reacted with the lime slurry in one of two reactor vessels each of 22000 litre capacity, which are pre-limed prior to the addition of acid. The reactors are air-sparged as necessary to ensure mixing is complete. The neutralised waste effluent is pumped from the base of the reactors and passed through a filter press to remove solid materials and metals salts. The filter cake is deposited in a skip and then removed to landfill. The resulting effluent is transferred to storage tanks where it is analysed for the parameters in the discharge consent and blended with a number of imported effluent streams. The blended waste is then either discharged to foul sewer, or used to make up lime slurry onsite. The filtrate tanks are periodically cleaned to remove precipitates. The major environmental releases are the filter cake to landfill and the foul sewer discharge. There are no major gaseous emissions identified.

Within the permit boundary is also a site laboratory, associated office space and storage area where samples are analysed of both incoming and outgoing wastes. The site boundary also contains a storage tank for virgin pickling acid, the contents of which belong to the E F Westaway facility, however, the filling and maintenance of the tank and the larger bund within which it sits, are the responsibility of Castle Waste Services Ltd.

There are no habitat sites, SSSI, European sites or other designated sites within 5 kilometres of the site.

The site has an internal environmental management system, covering the operations of Castle Waste Services Ltd only.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
E F Westaway Limited	TP3538PD	14/02/05
E F Westaway Limited (variation)	GP3539LU	20/03/06

Other activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit referred to in the Table above.

Other existing Licences/Authorisations/Registrations relating to this site

Holder	Reference Number	Date of issue
Castle Waste Service Ltd	S / 86 / 1306C	31/08/1986
Discharge Consent		

Note that the waste management licence shall cease to have effect if and to the extent that the treatment, keeping or disposal of waste authorised by the licence is authorised by this permit.

Superseded Waste Management Licence/ Authorisations/ Consents relating to this installation	Partially	For Waste Management Licence state whether fully superseded or partially superseded
Holder	Reference Number	Date of Issue
E F Westaway Ltd (Waste management licence)	WD20 S828	05/04/1991
Fully superseded		

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under Condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

Status Log

Detail	Date	Response Date
Application YP 3632 SA	Received 26/08/05	
First response to request for information	Request dated 17/10/05	Response dated 14/11/05
Second response to request for information	Request dated 9/12/05	Response dated 12/01/06
Request to extend determination	Request dated 21/12/05	Request accepted 03/01/06
Permit determined	20/03/06	

End of Introductory Note.

Permit
Pollution Prevention and Control
Regulations 2000



**ENVIRONMENT
AGENCY**

Permit

Permit number
YP3632SA

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations (SI 2000 No 1973), hereby authorises **Castle Waste Services Limited** ("the Operator"),

Whose Registered Office (or principal place of business) is
Crompton Road
Ilkeston
Derbyshire
DE7 4BG

Company registration number 1359619

to operate part of an Installation at
Arden Works
Bacon Lane
Attercliffe
Sheffield
S9 3NH

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

Signed	Date

Phil Reynolds
Regulatory Team Leader (PIR Permitting)
Strategic Permitting Group, Nottingham.
Authorised to sign on behalf of the Agency

Conditions

1 General

1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1 – Permitted activities			
Activity listed in Schedule 1 of the PPC Regulations or Directly-associated Activity	Description of Specified Activity and WFD Annex IIA and IIB operations	Permitted Capacity of Specified Activity	(waste types by EWC)
Section 5.3 A1(a) : physico chemical treatment of hazardous waste	D9 neutralisation	Tank N1 200 tonnes per day	Wastes in Schedule 6 table S6.1 subject to exclusions in tables S6.3
Section 5.3 A1(a) : physico chemical treatment of hazardous waste	D9 neutralisation	Tank N2 200 tonnes per day	Wastes in Schedule 6 table S6.1 subject to exclusions in tables S6.3
Section 5.3 A1(a) : storage of hazardous waste	D15 Storage pending D9	Drum storage area and tanks H1, H2, H3, H5 and S1 400 tonne per day	Wastes in Schedule 6 table S6.1 subject to exclusions in tables S6.3
Section 5.3 A1(c)(ii) : physico chemical treatment of non-hazardous waste -filtration	D9 dewatering.	400 tonne per day	Wastes in Schedule 6 table S6.2
Section 5.3 A1(c)(ii) : physico chemical treatment of non-hazardous waste - blending	D13 blending.	Tanks F1, F2, F3, F4, F5 400 tonne per day	Wastes in Schedule 6 table S6.2
DAA – lime delivery, storage and slurry make up.	Not applicable	Tanks L1, C1. 100 tonne per day	Not applicable
DAA – storage of non-hazardous press solids.	D15 storage pending D5	400 tonne per day.	19 02 06
DAA – E F Westaway Surface Treatment	Section 2.2 part B(e)	Tank H4	Not applicable
DAA – Storage of non-hazardous waste.	D15 – storage of non-hazardous empty containers prior to off site disposal	Drum storage area 1 tonne per day	15 01 02, 15 01 04, 15 01 05, 15 01 06, 15 01 07.
DAA – Acceptance of hazardous and non-hazardous waste	D15 – storage of non-hazardous and non-hazardous waste pending D9	Permitted area 400 tonne per day	Wastes in schedule 6 tables S6.1 and S6.2 subject to exclusions in table S6.3
DAA – Transfer and handling of hazardous and non-hazardous wastes	D15 – transfer and handling of hazardous and non- hazardous waste pending D9	Permitted area 400 tonne per day	Wastes in schedule 6 tables S6.1 and S6.2 subject to exclusions in table S6.3
DAA – Storage of non-hazardous waste	R13 storage of hazardous and non-hazardous containers prior to off site recovery	Drum storage area 1 tonne per day	15 01 02, 15 01 04, 15 01 05, 15 01 06, 15 01 07.

- 1.1.2 Where there are wastes on site that are not subject to this Permit then the waste subject to the activities authorised under condition 1.1.1 shall be clearly identified.

1.2 Site

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 5 to this Permit, which is within the area edged in red on the Site Plan that represents the extent of the installation covered by this Permit and that of the other Operator of the installation.

1.3 Overarching Management Condition

- 1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Improvement Programme

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.

Table 1.4.1: Improvement programme

Reference	Requirement	Date
IC1	The Operator shall prepare a maintenance program for the inspection and monitoring of all sumps, bunds, kerbs, surfaces and drains on the site in accord with section 2.2.5. of Sector Guidance Note IPPC S5.06. December 2004. The Operator shall review the bunding arrangements for all storage tanks and reactor vessels at the installation, including the kerbing for the off loading pad, in accord with section 2.1.3 of Sector Guidance Note IPPC S5.06. December 2004. The results of the review, a BAT justification of any recommendations and a timetable for implementation shall be reported to the Agency in writing.	20/09/06
IC2	The Operator shall characterise and quantify any gaseous emissions from emissions points N1 and N2. This review should include both organic and inorganic gaseous emissions, and consider both maximum and average emission values in accord with section 2.2.1 of s5.06 of Sector Guidance Note IPPC S5.06. December 2004. The results of the review, a BAT justification of any recommendations and a timetable for implementation shall be reported to the Agency in writing.	20/03/07
IC3	The Operator shall produce and implement written procedures (and any amendments to them) to reduce and where possible prevent fugitive emissions to air from the vessels, containers, pipework and plant equipment used at the installation that accord with section 2.2.4 of Sector Guidance Note IPPC S5.06. December 2004.	20/03/07
IC4	The Operator shall undertake a sampling and analysis exercise on the metal hydroxide filter cake produced on the site. This shall involve analysing the filter cake for both metals and organic determinands as necessary, as well as moisture content, pH and Total Petroleum Hydrocarbons (TPH). This programme should accord with section 2.1.4 of Sector Guidance Note IPPC S5.06. December 2004 and the Agency guidance document WM2 (2 nd edition). The exercise should assess both the efficiency of the process and ensure that the correct disposal route has been selected. The results of this exercise shall be reported to the Agency in writing.	20/12/06
IC5	The Operator shall, in conjunction with E F Westaway, undertake a sampling and analysis programme to demonstrate that the operation of the effluent treatment plant fully meets the requirements of BAT for the surface treatment sector as given in section 3.2.2 of Sector Guidance Note IPPC S2.07. September 2004. This programme shall consider both of the waste streams transferred from E F Westaway, S1 and S2 separately and look at the filtrate removed from the filter press prior to blending with other wastes. An assessment of both waste streams against the BAT requirements must be carried out. The operator shall report the results of this programme to the Agency in writing along with a timescale for any improvements necessary.	20/09/06
IC6	The Operator shall investigate the fitting of sensors and high level alarms on the reactor vessels N1 and N2. The operator shall also investigate the use of a central controller to operate valves and monitor all tank levels. This shall be in accord with section 2.2.5 of Sector Guidance Note IPPC S5.06. December 2004. The results of this investigation along with a timescale for implementation of any instrumentation shall be reported to the Agency in writing.	20/09/07

IC7	The Operator shall provide the Agency with a report detailing progress made with the proposed improvements described in section B9.0.1 of the submitted application.	20/03/07
IC8	The Operator shall examine the discharge of ammonia from the process to sewer and propose an improvement program to reduce the concentration of ammonia in the final effluent discharge. The results of this investigation along with a timescale for implementation of any improvements shall be reported to the Agency in writing.	20/03/07

- 1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.

1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application and the Site Protection and Monitoring Programme, as the case may be shall be deemed to be amended.

1.6 Pre-Operational Conditions

- 1.6.1 There are no pre-operational conditions.

1.7 Off-site Conditions

- 1.7.1 There are no off-site conditions

2 Operating conditions

2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1.4. to 2.1.24, 2.2 given in pages 15 –40 of the application form and the parts of appendix AVEC 1, numbered B 2.1.1, B2.1.4, B2.1.5, B2.1.6, B2.1.7, B2.1.15, B2.1.23.	26 th August 2005
Letter dated 14/11/05	The response to questions labelled 1, 7, 8 and 9.	14 th November 2005
Letter dated 12/01/06	The response to questions labelled 2, 5, and 6.	12 th January 2006

- 2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit (as amended from time to time under condition 4.1.8), or as otherwise agreed in writing by the Agency.
- 2.1.3 Site security systems shall be provided at all times during subsistence of this Permit to prevent access which is not authorised either by this Permit or under legal powers of entry.

2.2 Emissions

2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

- 2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the sources specified in that Table. There are no specific controls imposed upon emissions to air in Part 2.2.1 of this Permit.

Emission point reference or description	Source	Location of emission point
N1	Reactor vessel N1	Top of reactor vessel N1
N2	Reactor vessel N2	Top of reactor vessel N2

- 2.2.1.3 No condition applies.

2.2.1.4 No condition applies.

2.2.2 Emissions to water (other than groundwater), including heat, from specified points

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.

2.2.2.3 Emissions to water from the emission points specified in Table 2.2.4 shall only arise from the sources specified in that Table there are no specific controls imposed on emissions to water in Part 2.2.2 of this Permit.

Table 2.2.4: Emission point to water

Emission Point Reference or description	Source	Receiving Water
W1 downpipes labelled rwp, along south east side of plant on site plan in letter dated 12 th January 2006	Site roof drainage	Foul sewer
W2 downpipes labelled rwp, along north west side of plant on site plan in letter dated 12 th January 2006	Site roof drainage	Sheffield and Tinsley canal

2.2.2.4 No condition applies

2.2.2.5 No condition applies.

2.2.2.6 No condition applies.

Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the sources specified in that Table.

Emission point reference or description	Source	Sewer
S1 - labelled as discharge point on plan AVEC plan 1	Effluent treatment plant	Yorkshire Water Services Limited.

2.2.2.8 The limits for the emissions to sewer for the parameters and emission point set out in Table 2.2.8 shall not be exceeded.

Table 2.2.8 : Emission limits and monitoring frequency to sewer

Emission point reference	Substance	Limit (including Reference Period)	Monitoring frequency	Monitoring method
S1 – final discharge to sewer	pH	6-10.5	fortnightly	BS 6068-2.50:1995
S1	Temperature	43.3 °C	fortnightly	Calibrated temperature probe
S1	Settled COD	20000 mg / l 3000 kg / day	fortnightly	BS ISO15705:2002
S1	Settleable solids	800 mg / l	fortnightly	SCA Blue book 105
S1	Chromium	4.0 mg / l 0.28 kg / day	fortnightly	BS EN 1233:1997
S1	Copper	2.0 mg / l 0.15 kg / day	fortnightly	BS 6068-2.29:1987
S1	Nickel	3.0mg / l 0.21 kg / day	fortnightly	BS 6068-2.29:1987
S1	Lead	2.0 mg / l 0.39 kg / day	fortnightly	BS 6068-2.29:1987
S1	Zinc	2.0 mg / l 0.39 kg / day	fortnightly	BS 6068-2.29:1987
S1	Total ammonia (as N)	750 mg / l 100 kg / day	fortnightly	SCA Blue book 48.
S1	Benzene	75 µg / l	fortnightly	SCA Blue Book 170
S1	Chlorobenzene	2000 µg / l	fortnightly	SCA Blue Book 170
S1	Dichloromethane	6300 µg / l	fortnightly	SCA Blue Book 170
S1	Ethylbenzene	650 µg / l	fortnightly	SCA Blue Book 170
S1	Total sulphide	2.0 mg / l	fortnightly	
S1	Total sulphate (as SO ₄)	2500 mg / l	fortnightly	SCA Blue book 136
S1	Toluene	1000 µg / l	fortnightly	SCA Blue Book 170
S1	Trichloroethane	1200 µg / l	fortnightly	SCA Blue Book 170
S1	Meta and para xylene	1700 µg / l	fortnightly	SCA Blue Book 170
S1	Cadmium	No limit set	fortnightly	BS EN ISO 5961:1995
S1	Mercury	No limit set	fortnightly	SCA Blue book 10

2.2.2.9 Where a substance is specified in Table 2.2.8 but no limit is set for it, the concentration of such substance in emissions to sewer from the relevant emission point shall be no greater than the background concentration.

2.2.2.10 Total emissions in any year of a substance listed in Table 2.2.9 shall not exceed the relevant limit in that Table

Table 2.2.9 Annual emission limit

Substance	Annual limit – kg
pH	Not applicable
Temperature	Not applicable
Settled COD	1095000 kg
Settleable solids	87600 kg
Chromium	102 kg
Copper	55 kg
Nickel	77 kg
Lead	142 kg
Zinc	142 kg
Total ammonia (as N)	36500 kg
Benzene	8 kg
Chlorobenzene	219 kg
Dichloromethane	690 kg
Total sulphide	219 kg
Total sulphate (as SO ₄)	273750 kg
Toluene	110 kg
Trichloroethane	131 kg
Meta and para xylene	186 kg
Cadmium	1 kg
Mercury	0.5 kg

2.2.3 Emissions to groundwater

- 2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

2.2.4 Fugitive emissions of substances to air

- 2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:
- storage areas
 - buildings
 - pipes, valves and other transfer systems

- open surfaces

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5 Fugitive emissions of substances to water and sewer

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

2.2.6 Odour

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 No condition applies.

2.2.6.3 No condition applies.

2.2.7 Emissions to Land

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted installation shall be made to land.

2.2.7.3 No condition applies.

2.3 Management

- 2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.
- 2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Maintenance

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.
- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:
- 2.3.6.1 a written or electronic maintenance programme; and
 - 2.3.6.2 records of its maintenance.

Incidents and Complaints

- 2.3.7 The Operator shall maintain and implement written procedures for:
- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;
 - 2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
 - 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.
- 2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.
- 2.3.9 No condition applies

2.4 Efficient use of raw materials

- 2.4.1 The Operator shall -
- 2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;

- 2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and
- 2.4.1.3 ensure that incoming water use is directly measured and recorded.

2.5 Waste Storage and Handling

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on the Permitted installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.
- 2.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.6 Waste recovery or disposal

- 2.6.1 Waste produced at the Permitted Installation shall be:

2.6.1.1 recovered to no lesser extent than described in the Application; and

2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.

2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in response to Section 2.1.2 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.

2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

2.6.4 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin and delivery date of any waste that is received for disposal or recovery at the Permitted Installation.

2.6.5 The Operator shall ensure that where waste produced at the Permitted Installation 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, including variability of the process
- The composition of the waste
- The handling requirements of the waste

- The hazard classification associated with the waste
- The EWC code of the waste

2.6.6 The operator shall ensure that where waste produced at the Permitted Installation is sent to a landfill site it meets the waste acceptance criteria for that landfill.

2.7 Energy Efficiency

2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.

2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.

2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note as from time to time amended. Energy efficiency shall be secured in particular by:

- ensuring that the appropriate operating and maintenance systems are in place;
- ensuring that all plant is adequately insulated to minimise energy loss or gain;
- ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
- employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
- where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and

maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

2.8 Accident prevention and control

2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;

- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.9.2 No condition applies.

2.9.3 No condition applies.

2.10 On-site Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Table 2.2.8, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

2.10.2 No condition applies

2.10.3 No condition applies.

2.10.4 No condition applies.

2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/or spot sampling, where such notification has been requested in writing by the Agency.

2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.

2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.

2.10.8 There shall be provided:

2.10.8.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and

2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.

2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.

2.10.10 The Operator shall, within 6 months of the issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:

2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and

2.10.10.2 report that site reference data to the Agency,
- unless otherwise agreed in writing by the Agency.

2.11 Closure and Decommissioning

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
 - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
 - 2.11.1.3 the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- 2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.
- 2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

2.12 Multiple Operator installations

- 2.12.1 There are no conditions as a result of the interactions of the Permits covering this installation

2.13 Transfer to effluent treatment plant

- 2.13.1 No transfer from the Permitted Installation shall be made to effluent treatment plant.
- 2.13.2 No condition applies.

3 Records

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the Agency at any reasonable time;
 - 3.1.2 be supplied to the Agency on demand and without charge;
 - 3.1.3 be legible;
 - 3.1.4 be made as soon as reasonably practicable;
 - 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
 - 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
 - 3.1.7 where they concern the condition of the site of the Installation or are related to the implementation of the Site Protection and Monitoring Programme, be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.

4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:-
- 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
 - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.7 The Operator shall, within two months of the date of this permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under condition 4.1.7, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.
- 4.1.8 No condition applies.

Reporting

- 4.1.9 The Operator shall submit to the Agency a summary report setting out the types and quantities of waste accepted and removed from the site for each quarter of the financial year. The report should be submitted within 1 month of the end of that financial year. The summary report shall be in the format detailed in Schedule 3 (Waste Return Summary Report Form) or otherwise agreed with the Agency in writing.

5 Notifications

- 5.1.1 The Operator shall notify the Agency **without delay** of:-
- 5.1.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
 - 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution;
 - 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution; and
 - 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution.
- 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:-
- 5.1.2.1 the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 5.1.2.2 the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;
- and such information shall be in accordance with that Schedule.
- 5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
 - 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
 - 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit].
- 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-
- 5.1.5.1 where the Operator is a registered company:-
 - any change in the Operator's trading name, registered name or registered office address;
 - 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)
 - any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
 - 5.1.5.2 where the Operator is a corporate body other than a registered company:
 - any change in the Operator's name or address;
 - any steps taken with a view to the dissolution of the Operator.
 - 5.1.5.3 In any other case: -
 - the death of any of the named Operators (where the Operator consists of more than one named individual);

Notifications

- any change in the Operator's name(s) or address(es);
- any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;

5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-

5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.

5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.

5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.

5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-

5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.

5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

“Application” means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any operational change agreed under the conditions of this Permit.

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

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

“BAT” means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: “available techniques” means “those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator”; “best” means “in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole” and “techniques” “includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.”. In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

“Disposal” means any of the operations provided for in Annex II.A to Directive 75/442/EEC

“EWC” means List of Waste (England) Regulations 2005 (SI 205 No. 895)

“Fugitive emission” means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

“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 the version of the Agency guidance note “H7 - Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme”, including its appended templates for data reporting, which is current at the time of issue of the Permit.

“ $L_{Aeq,T}$ ” means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

“ $L_{A90,T}$ ” means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.

“ L_{AFmax} ” means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

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

“Monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

Interpretation

"Permitted Installation" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

"Recovery" means any of the operations provided for in Annex II.B to Directive 75/442/EEC

"Sewer" means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"Staff" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"WFD" means Waste Framework Directive (75/442/EEC)

"Year" means calendar year ending 31 December.

- 6.1.2 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.
- 6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:-
- 6.1.3.1 in relation to gases 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
 - 6.1.3.2 in relation to gases 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
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

Schedule 1 - Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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 PPC Regulations.

Part A

Permit Number	YP3632SA
Name of Operator	Castle Waste Services Limited
Location of Installation	Arden Works, Bacon Lane, Attercliffe, Sheffield
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place
	<i>eg air</i>		
	<i>eg groundwater</i>		

Measures taken, or intended to be taken, to stop the emission	
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Part B

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 or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Castle Waste Services Limited.

Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins
pH	S1	Every 3 months	01/04/06
Settled COD mg l ⁻¹	S1	Every 3 months	01/04/06
Settleable solids mg l ⁻¹	S1	Every 3 months	01/04/06
Mercury (Hg) mg l ⁻¹	S1	Every 3 months	01/04/06
Cadmium (Cd) mg l ⁻¹	S1	Every 3 months	01/04/06
Chromium (Cr) mg l ⁻¹	S1	Every 3 months	01/04/06
Copper (Cu) mg l ⁻¹	S1	Every 3 months	01/04/06
Nickel (Ni) mg l ⁻¹	S1	Every 3 months	01/04/06
Lead (Pb) mg l ⁻¹	S1	Every 3 months	01/04/06
Zinc (Zn) mg l ⁻¹	S1	Every 3 months	01/04/06
Ammonia (as N) mg l ⁻¹	S1	Every 3 months	01/04/06
Benzene µg l ⁻¹	S1	Every 3 months	01/04/06
Chlorobenzene µg l ⁻¹	S1	Every 3 months	01/04/06
Dichloromethane µg l ⁻¹	S1	Every 3 months	01/04/06
Ethylbenzene µg l ⁻¹	S1	Every 3 months	01/04/06
Toluene µg l ⁻¹	S1	Every 3 months	01/04/06
Trichloroethane µg l ⁻¹	S1	Every 3 months	01/04/06
Meta and Para xylene µg l ⁻¹	S1	Every 3 months	01/04/06
Dissolved Sulphide mg l ⁻¹	S1	Every 3 months	01/04/06
Dissolved Sulphate mg l ⁻¹	S1	Every 3 months	01/04/06
Waste disposal and/or recovery.		Every 3 months	01/04/06
Water usage		Every 12 months	01/04/06
Energy usage		Every 12 months	01/04/06

Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media / parameter	Form Number	Date of Form
Sewer	S2	2/2006
Energy	E1	2/2006
Water usage	WU1	2/2006
Performance indicators	PI1	2/2006
Waste Returns Reporting Form	RATS2 -ELECTRONIC	10/11/2005

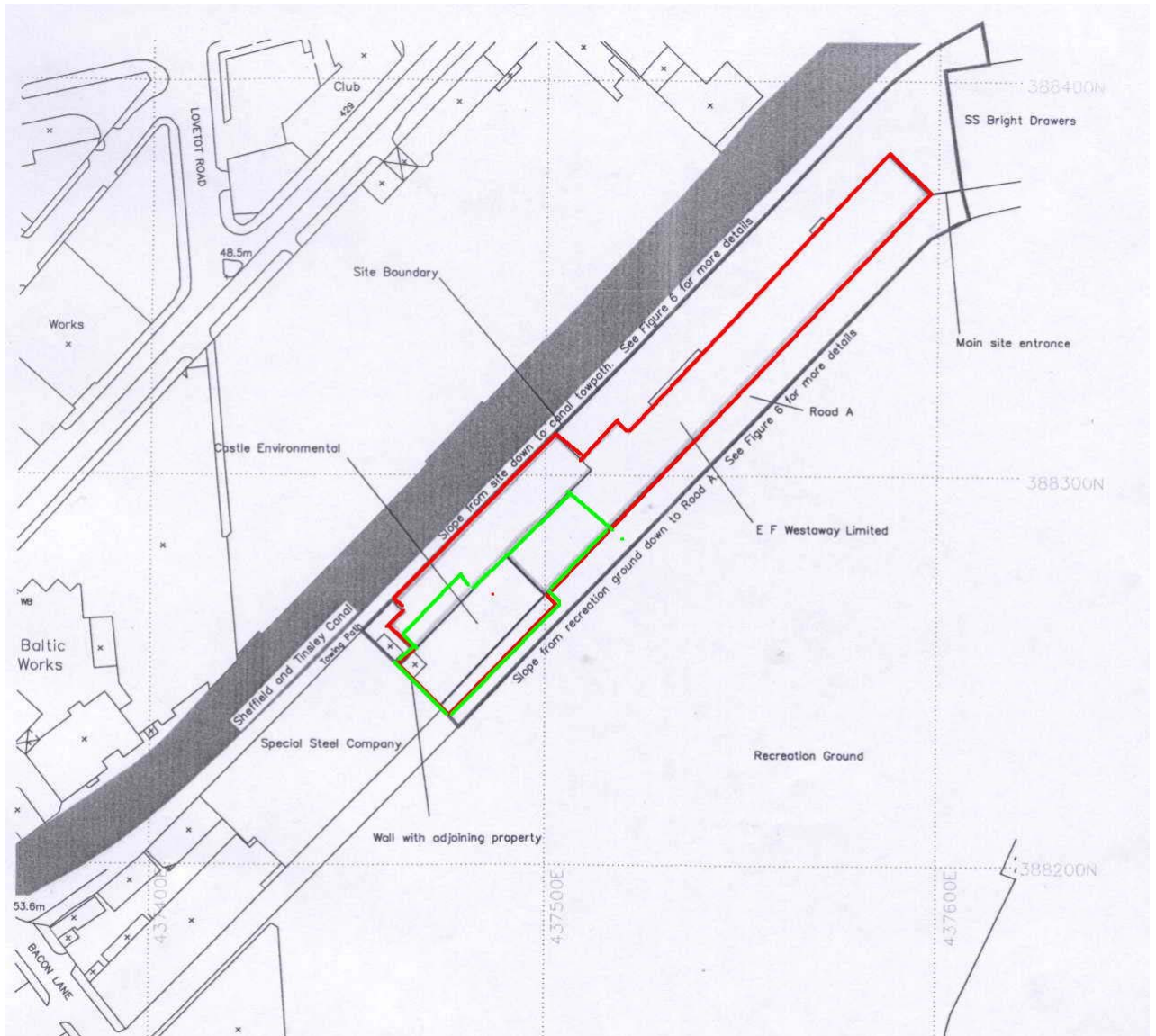
Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

Table S4.1: Annual Production/Treatment	
Quantity of waste treated	X (tonnes)
Quantity of waste landfilled	Y (tonnes)
Volume discharged to sewer	Z (litres)

Parameter	Frequency assessment	of	Performance indicator
Ammonia discharged per tonne of waste treated	Monthly		Ammonia/t
Lime used per tonne of waste treated	Monthly		Lime/t
Potable water use	Quarterly		m ³ /t

Schedule 5 - Site Plan



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Schedule 6 – Permitted Waste Types

Table S6.1: Hazardous Waste Types

<p>01 Wastes Resulting from Exploration, Mining, Quarrying, and Physical and Chemical Treatment of Minerals <i>01 05 drilling muds and other drilling wastes</i> 01 05 06* drilling muds and other drilling wastes containing dangerous substances</p> <p>02 Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing <i>02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</i> 02 01 08* agrochemical waste containing dangerous substances</p> <p>03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper and Cardboard 03 02 wastes from wood preservation 03 02 04* inorganic wood preservatives 03 02 05* other wood preservatives containing dangerous substances</p> <p>04 Wastes from the Leather, Fur and Textile Industries <i>04 02 wastes from the textile industry</i> 04 02 16* dyestuffs and pigments containing dangerous substances 04 02 19* sludges from on-site effluent treatment containing dangerous substances</p> <p>05 Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal <i>05 01 wastes from petroleum refining</i> 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</p> <p>06 Wastes from Inorganic Chemical Processes <i>06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids</i> 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</p> <p><i>06 02 wastes from the MFSU of bases</i> 06 02 01* calcium hydroxide 06 02 03* ammonium hydroxide 06 02 04* sodium and potassium hydroxide 06 02 05* other bases</p> <p><i>06 04 metal-containing wastes other than those mentioned in 06 03</i> 06 04 05* wastes containing other heavy metals</p> <p><i>06 05 sludges from on-site effluent treatment</i> 06 05 02* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes</i> 06 06 02* wastes containing dangerous sulphides</p> <p><i>06 07 wastes from the MFSU of halogens and halogen chemical processes</i> 06 07 04* solutions and acids, for example contact acid</p> <p><i>06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes</i> 06 09 03* calcium-based reaction wastes containing or contaminated with dangerous substances</p> <p><i>06 10 wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture</i> 06 10 02* wastes containing dangerous substances</p> <p><i>06 13 wastes from inorganic chemical processes not otherwise specified</i> 06 13 01* inorganic plant protection products, wood-preserving agents and other biocides.</p> <p>07 Wastes from Organic Chemical Processes <i>07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals</i> 07 01 01* aqueous washing liquids and mother liquors 07 01 11* sludges from on-site effluent treatment containing dangerous substances</p>
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<p><i>07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres</i> 07 02 01* aqueous washing liquids and mother liquors 07 02 11* sludges from on-site effluent treatment containing dangerous substances 07 02 14* wastes from additives containing dangerous substances 07 02 16* wastes containing dangerous silicones</p> <p><i>07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)</i> 07 03 01* aqueous washing liquids and mother liquors 07 03 11* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides</i> 07 04 01* aqueous washing liquids and mother liquors 07 04 11* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>07 05 wastes from the MFSU of pharmaceuticals</i> 07 05 01* aqueous washing liquids and mother liquors 07 05 11* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics</i> 07 06 11* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified</i> 07 07 01* aqueous washing liquids and mother liquors 07 07 11* sludges from on-site effluent treatment containing dangerous substances</p> <p>08 Wastes from Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks <i>08 01 wastes from MFSU and removal of paint and varnish</i> 08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances 08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances</p> <p><i>08 03 wastes from MFSU of printing inks</i> 08 03 12* waste ink containing dangerous substances 08 03 14* ink sludges containing dangerous substances 08 03 16* waste etching solutions 08 03 17* waste printing toner containing dangerous substances</p> <p><i>08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)</i> 08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances 08 04 13* aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances 08 04 15* aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances</p> <p>09 Wastes from the Photographic Industry <i>09 01 wastes from the photographic industry</i> 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</p> <p>10 Wastes from Thermal Processes <i>10 01 wastes from power stations and other combustion plants (except 19)</i> 10 01 09* sulphuric acid 10 01 20* sludges from on-site effluent treatment containing dangerous substances 10 01 22* aqueous sludges from boiler cleansing containing dangerous substances</p> <p><i>10 02 wastes from the iron and steel industry</i> 10 02 11* wastes from cooling-water treatment containing oil 10 02 13* sludges and filter cakes from gas treatment containing dangerous substances</p> <p><i>10 03 wastes from aluminium thermal metallurgy</i> 10 03 25* sludges and filter cakes from gas treatment containing dangerous substances 10 03 27* wastes from cooling-water treatment containing oil</p> <p><i>10 04 wastes from lead thermal metallurgy</i> 10 04 07* sludges and filter cakes from gas treatment 10 04 09* wastes from cooling-water treatment containing oil</p>

10 05 wastes from zinc thermal metallurgy

- 10 05 06* sludges and filter cakes from gas treatment
- 10 05 08* wastes from cooling-water treatment containing oil

10 06 wastes from copper thermal metallurgy

- 10 06 07* sludges and filter cakes from gas treatment
- 10 06 09* wastes from cooling-water treatment containing oil

10 07 wastes from silver, gold and platinum thermal metallurgy

- 10 07 07* wastes from cooling-water treatment containing oil

10 08 wastes from other non-ferrous thermal metallurgy

- 10 08 17* sludges and filter cakes from flue-gas treatment containing dangerous substances
- 10 08 19* wastes from cooling-water treatment containing oil

10 09 wastes from casting of ferrous pieces

- 10 09 15* waste crack-indicating agent containing dangerous substances

10 10 wastes from casting of non-ferrous pieces

- 10 10 15* waste crack-indicating agent containing dangerous substances

10 11 wastes from manufacture of glass and glass products

- 10 11 09* waste preparation mixture before thermal processing, containing dangerous substances
- 10 11 13* glass-polishing and -grinding sludge containing dangerous substances
- 10 11 17* sludges and filter cakes from flue-gas treatment containing dangerous substances

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

- 10 12 11* wastes from glazing containing heavy metals

11 Wastes from Chemical Surface Treatment and Coating of Metals and other Materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

- 11 01 05* pickling acids
- 11 01 06* acids not otherwise specified
- 11 01 07* pickling bases
- 11 01 08* phosphatising sludges
- 11 01 09* sludges and filter cakes containing dangerous substances
- 11 01 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 02 wastes from non-ferrous hydrometallurgical processes

- 11 02 02* sludges from zinc hydrometallurgy (including jarosite, goethite)
- 11 02 05* wastes from copper hydrometallurgical processes containing dangerous substances
- 11 02 07* other wastes containing dangerous substances

11 03 sludges and solids from tempering processes

- 11 03 02* other wastes

12 Wastes from Shaping and Physical and Mechanical Surface Treatment of Metals and Plastics

12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

- 12 01 14* machining sludges containing dangerous substances
- 12 01 18* metal sludge (grinding, honing and lapping sludge) containing oil

12 03 wastes from water and steam degreasing processes (except 11)

- 12 03 01* aqueous washing liquids
- 12 03 02* steam degreasing wastes

13 Oil Wastes and Wastes of Liquid Fuels (except edible oils, and those in chapters 05, 12 and 19)

13 05 oil/water separator contents

- 13 05 08* mixtures of wastes from grit chambers and oil/water separators

16 Wastes not otherwise specified in the list

16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

- 16 01 21* hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14

<p><i>16 03 off-specification batches and unused products</i> 16 03 03* inorganic wastes containing dangerous substances 16 03 05* organic wastes containing dangerous substances</p> <p><i>16 06 batteries and accumulators</i> 16 06 06* separately collected electrolyte from batteries and accumulators</p> <p><i>16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)</i> 16 07 09* wastes containing other dangerous substances</p> <p><i>16 09 oxidising substances</i> 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</p> <p>18 Wastes from Human and Animal Health Care and/or Related Research (except kitchen and restaurant wastes not arising from immediate health care) <i>18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans</i> 18 01 06* chemicals consisting of or containing dangerous substances</p> <p><i>18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals</i> 18 02 05* chemicals consisting of or containing dangerous substances</p> <p>19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the preparation of Water Intended for Human Consumption and Water for Industrial Use <i>19 01 wastes from incineration or pyrolysis of waste</i> 19 01 06* aqueous liquid wastes from gas treatment and other aqueous liquid wastes</p> <p><i>19 02 wastes from physico/chemical treatments of waste (including dechromation, decyanidation, neutralisation)</i> 19 02 04* premixed wastes composed of at least one hazardous waste 19 02 05* sludges from physico/chemical treatment containing dangerous substances 19 02 11* other wastes containing dangerous substances</p> <p><i>19 07 landfill leachate</i> 19 07 02* landfill leachate containing dangerous substances</p> <p><i>19 08 wastes from waste water treatment plants not otherwise specified</i> 19 08 07* solutions and sludges from regeneration of ion exchangers 19 08 08* membrane system waste containing heavy metals 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</p> <p><i>19 11 wastes from oil regeneration</i> 19 11 03* aqueous liquid wastes 19 11 05* sludges from on-site effluent treatment containing dangerous substances</p> <p><i>19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</i> 19 12 11* other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances</p> <p><i>19 13 wastes from soil and groundwater remediation</i> 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</p> <p>20 Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions <i>20 01 separately collected fractions (except 15 01)</i> 20 01 14* acids 20 01 15* alkalines 20 01 17* photochemicals 20 01 29* detergents containing dangerous substances</p> <p>Additional permitted waste types following agreement with Environment Agency by letter dated 8 September 2006.</p> <p>01 Wastes Resulting from Exploration, Mining, Quarrying, and Physical and Chemical Treatment of Minerals <i>01 03 wastes from physical and chemical processing of metalliferous minerals</i></p>
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01 03 04* acid-generating tailings from processing of sulphide ore
01 03 05* other tailings containing dangerous substances

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 07* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals

03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper and Cardboard

03 02 wastes from wood preservation

03 02 01* non-halogenated organic wood preservatives

03 02 03* organometallic wood preservatives

04 Wastes from the Leather, Fur and Textile Industries

04 01 wastes from the leather and fur industry

04 01 03* degreasing wastes containing solvents without a liquid phase

04 02 wastes from the textile industry

04 02 14* wastes from finishing containing organic solvents

06 Wastes from the manufacture, formulation, supply and use (MFSU) of acids

06 03 wastes from the MFSU of salts and their solutions and metallic oxides

06 03 13* solid salts and solutions containing heavy metals

06 04 metal-containing wastes other than those mentioned in 06 03

06 04 03* wastes containing arsenic

06 05 sludges from on-site effluent treatment

06 05 02* sludges from on-site effluent treatment containing dangerous substances

06 08 wastes from the MFSU of silicon and silicon derivatives

06 08 02* wastes containing dangerous silicones

07 Wastes from Organic Chemical Processes

07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

07 01 04* other organic solvents, washing liquids and mother liquors

07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres

07 02 04* other organic solvents, washing liquids and mother liquors

07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)

07 03 04* other organic solvents, washing liquids and mother liquors

07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

07 04 04* other organic solvents, washing liquids and mother liquors

07 05 wastes from the MFSU of pharmaceuticals

07 05 04* other organic solvents, washing liquids and mother liquors

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 01* aqueous washing liquids and mother liquors

07 06 04* other organic solvents, washing liquids and mother liquors

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

07 07 04* other organic solvents, washing liquids and mother liquors

08 Wastes from Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks

08 01 wastes from MFSU and removal of paint and varnish

08 01 13* sludges from paint or varnish containing organic solvents or other dangerous substances

08 01 17* wastes from paint or varnish removal containing organic solvents or other dangerous substances

08 01 21* waste paint or varnish remover

08 03 wastes from MFSU of printing inks

08 03 19* disperse oil

08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 17* rosin oil

09 Wastes from the Photographic Industry

<p><i>09 01 wastes from the photographic industry</i> 09 01 03* solvent-based developer solutions</p> <p>10 Wastes from Thermal Processes</p> <p><i>10 03 wastes from aluminium thermal metallurgy</i> 10 03 29* wastes from treatment of salt slags and black drosses containing dangerous substances</p> <p>16 Wastes not otherwise specified in the list</p> <p><i>16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)</i> 16 01 13* brake fluids 16 01 14* antifreeze fluids containing dangerous substances</p> <p><i>16 02 wastes from electrical and electronic equipment</i> 16 02 15* hazardous components removed from discarded equipment</p> <p><i>16 05 gases in pressure containers and discarded chemicals</i> 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</p> <p><i>16 08 spent catalysts</i> 16 08 05* spent catalysts containing phosphoric acid 16 08 06* spent liquids used as catalysts</p> <p><i>16 10 aqueous liquid wastes destined for off-site treatment</i> 16 10 01* aqueous liquid wastes containing dangerous substances 16 10 03* aqueous concentrates containing dangerous substances</p> <p>17 Construction and Demolition Wastes (including excavated soil from contaminated sites) <i>17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil</i> 17 05 05* dredging spoil containing dangerous substances</p> <p><i>17 09 other construction and demolition wastes</i> 17 09 03* other construction and demolition wastes (including mixed wastes) containing dangerous substances</p> <p>19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use</p> <p><i>19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</i> 19 02 08* liquid combustible wastes containing dangerous substances</p> <p><i>19 08 wastes from waste water treatment plants not otherwise specified</i> 19 08 10* grease and oil mixture from oil/water separation other than those mentioned in 19 08 09</p> <p><i>19 11 wastes from oil regeneration</i> 19 11 07* wastes from flue-gas cleaning</p> <p>20 Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions</p> <p><i>20 01 separately collected fractions (except 15 01)</i> 20 01 27* paint, inks, adhesives and resins containing dangerous substances.</p>
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<p>Table S6.2: Non-Hazardous Waste Types</p> <p>01 Wastes Resulting from Exploration, Mining, Quarrying, and Physical and Chemical Treatment of Minerals</p> <p><i>01 05 drilling muds and other drilling wastes</i> 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</p> <p>02 Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing</p> <p><i>02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</i> 02 01 01 sludges from washing and cleaning 02 01 09 agrochemical waste other than those mentioned in 02 01 08</p>

02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin

- 02 02 01 sludges from washing and cleaning
- 02 02 03 materials unsuitable for consumption or processing
- 02 02 04 sludges from on-site effluent treatment

02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

- 02 03 05 sludges from on-site effluent treatment

02 04 wastes from sugar processing

- 02 04 02 off-specification calcium carbonate
- 02 04 03 sludges from on-site effluent treatment

02 05 wastes from the dairy products industry

- 02 05 01 materials unsuitable for consumption or processing
- 02 05 02 sludges from on-site effluent treatment

02 06 wastes from the baking and confectionery industry

- 02 06 03 sludges from on-site effluent treatment

02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)

- 02 07 03 wastes from chemical treatment
- 02 07 05 sludges from on-site effluent treatment

03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper and Cardboard

03 03 wastes from pulp, paper and cardboard production and processing

- 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 Wastes from the Leather, Fur and Textile Industries

04 01 wastes from the leather and fur industry

- 04 01 02 liming waste
- 04 01 04 tanning liquor containing chromium
- 04 01 05 tanning liquor free of chromium
- 04 01 06 sludges, in particular from on-site effluent treatment containing chromium
- 04 01 07 sludges, in particular from on-site effluent treatment free of chromium

04 02 wastes from the textile industry

- 04 02 15 wastes from finishing other than those mentioned in 04 02 14
- 04 02 17 dyestuffs 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

05 Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal

05 01 wastes from petroleum refining

- 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 06 wastes from the pyrolytic treatment of coal

- 05 06 04 waste from cooling columns

05 07 wastes from natural gas purification and transportation

- 05 07 02 wastes containing sulphur

06 Wastes from Inorganic Chemical Processes

06 03 wastes from the MFSU of salts and their solutions and metallic oxides

- 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- 06 03 16 metallic oxides other than those mentioned in 06 03 15

06 09 wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes

- 06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03

07 Wastes from Organic Chemical Processes

07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

- 07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11

07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres

07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11

07 02 15 wastes from additives other than those mentioned in 07 02 14

07 02 17 wastes containing silicones other than those mentioned in 07 02 16

07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)

07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11

07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11

07 05 wastes from the MFSU of pharmaceuticals

07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11

08 Wastes from Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks

08 01 wastes from MFSU and removal of paint and varnish

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13

08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17

08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

08 02 wastes from MFSU of other coatings (including ceramic materials)

08 02 02 aqueous sludges containing ceramic materials

08 02 03 aqueous suspensions containing ceramic materials

08 03 wastes from MFSU of printing inks

08 03 07 aqueous sludges containing ink

08 03 08 aqueous liquid waste containing ink

08 03 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 03 18 waste printing toner other than those mentioned in 08 03 17

08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

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 Wastes from Thermal Processes

10 01 wastes from power stations and other combustion plants (except 19)

10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20

10 01 26 wastes from cooling-water treatment

10 02 wastes from the iron and steel industry

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 wastes from aluminium thermal metallurgy

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 wastes from lead thermal metallurgy

10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09

10 05 wastes from zinc thermal metallurgy

10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08

10 06 wastes from copper thermal metallurgy

10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09

10 07 wastes from silver, gold and platinum thermal metallurgy

10 07 05 sludges and filter cakes from gas treatment

10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07

10 08 wastes from other non-ferrous thermal metallurgy

10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19

10 09 wastes from casting of ferrous pieces

10 09 16 waste crack-indicating agent other than those mentioned in 10 09 15

10 10 wastes from casting of non-ferrous pieces

10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15

10 11 wastes from manufacture of glass and glass products

10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09

10 11 14 glass-polishing and -grinding sludge other than those mentioned in 10 11 13

10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 01 waste preparation mixture before thermal processing

10 12 05 sludges and filter cakes from gas treatment

10 12 12 wastes from glazing other than those mentioned

10 12 13 sludge from on-site effluent treatment

10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 07 sludges and filter cakes from gas treatment

11 Wastes from Chemical Surface Treatment and Coating of Metals and other Materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

11 01 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 02 wastes from non-ferrous hydrometallurgical processes

11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05

12 Wastes from Shaping and Physical and Mechanical Surface Treatment of Metals and Plastics

12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

12 01 15 machining sludges other than those mentioned in 12 01 14

16 Wastes not otherwise specified in the list

16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

16 01 15 antifreeze fluids other than those mentioned in 16 01 14

16 01 22 components not otherwise specified

16 03 off-specification batches and unused products

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 gases in pressure containers and discarded chemicals

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

18 Wastes from Human and Animal Health Care and/or Related Research (except kitchen and restaurant wastes not arising from immediate health care)

18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans

18 01 07 chemicals other than those mentioned in 18 01 06

18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals

18 02 06 chemicals other than those mentioned in 18 02 05

19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use

19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)

19 02 03 premixed wastes composed only of non-hazardous wastes

19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05

19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09

19 04 vitrified waste and wastes from vitrification

19 04 04 aqueous liquid wastes from vitrified waste tempering

19 06 wastes from anaerobic treatment of waste

19 06 03 liquor from anaerobic treatment of municipal waste

19 06 05 liquor from anaerobic treatment of animal and vegetable waste

19 07 landfill leachate

19 07 03 landfill leachate other than those mentioned in 19 07 02

19 08 wastes from waste water treatment plants not otherwise specified

19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

19 09 wastes from the preparation of water intended for human consumption or water for industrial use

19 09 02 sludges from water clarification

19 09 03 sludges from decarbonation

19 09 06 solutions and sludges from regeneration of ion exchangers

19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

19 13 wastes from soil and groundwater remediation

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 Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions

20 01 separately collected fractions (except 15 01)

20 01 30 detergents other than those mentioned in 20 01 29

20 01 32 medicines other than those mentioned in 20 01 31

Additional permitted waste types following agreement with Environment Agency by letter dated 8 September 2006.

01 Wastes Resulting from Exploration, Mining, Quarrying, and Physical and Chemical Treatment of Minerals

01 01 wastes from mineral excavation

01 01 01 wastes from mineral metalliferous excavation

01 01 02 wastes from mineral non-metalliferous excavation

01 03 wastes from physical and chemical processing of metalliferous minerals

01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05

01 04 wastes from physical and chemical processing of non-metalliferous minerals

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

02 Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing and Processing

02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 07 wastes from forestry

02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation

02 03 02 wastes from preserving agents

02 03 03 wastes from solvent extraction

02 03 04 materials unsuitable for consumption or processing

02 06 wastes from the baking and confectionery industry

02 06 01 materials unsuitable for consumption or processing

02 06 02 wastes from preserving agents

02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)

02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials

02 07 02 wastes from spirits distillation

02 07 04 materials unsuitable for consumption or processing

03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper and Cardboard

03 03 wastes from pulp, paper and cardboard production and processing

03 03 02 green liquor sludge (from recovery of cooking liquor)

03 03 05 de-inking sludges from paper recycling

04 Wastes from the Leather, Fur and Textile Industries

04 01 wastes from the leather and fur industry

04 01 09 wastes from dressing and finishing

04 02 wastes from the textile industry

04 02 10 organic matter from natural products (for example grease, wax)

05 Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal

05 01 wastes from petroleum refining

05 01 16 sulphur-containing wastes from petroleum desulphurisation

06 Wastes from the manufacture, formulation, supply and use (MFSU) of acids

06 05 sludges from on-site effluent treatment

06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02

06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes

06 06 03 wastes from other non-ferrous thermal metallurgy wastes containing sulphides other than those mentioned in 06 06 02

06 11 wastes from the manufacture of inorganic pigments and opacifiers

06 11 01 calcium-based reaction wastes from titanium dioxide production

10 Wastes from Thermal Processes

10 01 wastes from power stations and other combustion plants (except 19)

10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22

10 01 25 wastes from fuel storage and preparation of coal-fired power plants

10 02 wastes from the iron and steel industry

10 02 01 wastes from the processing of slag

10 03 wastes from aluminium thermal metallurgy

10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17

10 03 30 wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29

10 08 wastes from other non-ferrous thermal metallurgy

10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12

10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 04 wastes from calcination and hydration of lime

10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

11 Wastes from Chemical Surface Treatment and Coating of Metals and other Materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

11 01 14 degreasing wastes other than those mentioned in 11 01 13

11 02 wastes from non-ferrous hydrometallurgical processes

11 02 03 wastes from the production of anodes for aqueous electrolytical processes

12 Wastes from Shaping and Physical and Mechanical Surface Treatment of Metals and Plastics

12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

12 01 02 ferrous metal dust and particles

12 01 04 non-ferrous metal dust and particles

16 Wastes not otherwise specified in the list

16 02 wastes from electrical and electronic equipment

16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15

16 10 aqueous liquid wastes destined for off-site treatment

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 Construction and Demolition Wastes (including excavated soil from contaminated sites)

17 03 bituminous mixtures, coal tar and tarred products

17 03 02 bituminous mixtures other than those mentioned in 17 03 01

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

17 05 06 dredging spoil other than those mentioned in 17 05 05

<p><i>17 09 other construction and demolition wastes</i> 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03</p> <p>18 Wastes from Human and Animal Health Care and/or Related Research (except kitchen and restaurant wastes not arising from immediate health care)</p> <p><i>18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans</i> 18 01 09 medicines other than those mentioned in 18 01 08</p> <p><i>18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals</i> 18 02 08 medicines other than those mentioned in 18 02 07</p> <p>19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use</p> <p><i>19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</i> 19 02 99 wastes not otherwise specified (filtrate from acid neutralisation process only)</p> <p><i>19 06 wastes from anaerobic treatment of waste</i> 19 06 04 digestate from anaerobic treatment of municipal waste 19 06 06 digestate from anaerobic treatment of animal and vegetable waste</p> <p><i>19 08 wastes from waste water treatment plants not otherwise specified</i> 19 08 02 waste from desanding 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</p> <p><i>19 11 wastes from oil regeneration</i> 19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05</p> <p>20 Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions</p> <p><i>20 01 separately collected fractions (except 15 01)</i> 20 01 25 edible oil and fat 20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27.</p>

Table S6.3: Exclusions	
Specified Operation	Restrictions on waste types specified in Table 6.1
	No wastes that possess the following, or during processing give rise to the following characteristics:
	Non water miscible materials with a flash point <55°C
	Waste having R1, R4, R5, R6, R16, R19, R30 or R44 when hazardous by H13
	Wastes having R2 or R3 when hazardous by H1
	Wastes having R15 or R17 when hazardous by H3-A
	Materials Hazardous by H9
	Wastes having R29 and R32 when hazardous by H12, unless test A12 shows no generation of gas.
	Wastes having a significant odour

End of permit