Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Veolia ES (UK) Limited

Redbournbury Treatment Plant
Redbourn Road
St Albans
Hertfordshire
AL3 6RP

Variation application number

EPR/BW3281IA/V004

Permit number

EPR/BW3281IA

Redbournbury Treatment Plant
Permit number EPR/BW3281IA

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

The permit has been amended to correct transcription errors in a previous Environment Agency initiated variation notice

Amendments include

- Reinsertion of wastes codes 02 01 01, 02 01 07, 02 01 09, 02 02 01, 02 02 04, 02 03 01, 02 03 02, 02 03 04, 02 03 05, 02 04 01, 02 04 02, 02 04 03 and 02 05 02
- Reinsertion of air emissions point A1
- Amendment of the site plan to include the permitted site boundary in red.
- Reference site annual throughput capacities
- Consolidation of all previous variations
- Insertion of the notification and periodic monitoring conditions as required under the Industrial Emissions Directive

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	**Date**	**Comments**
Application BW3281IA/A001	Received 03/08/05	
Response to request for information	13/09/05 & 20/10/05	
Response to request for information	14/10/05	
Response to request for information	24/10/05	
Response to request for information	04/11/05	
Response to request for information	29/10/05	
Response to request for information	16/11/05	
Response to request for information	22/12/05	
Request to extend determination	05/12/05	
Permit determined	17/03/06	

Status log of the permit		
Description	**Date**	**Comments**
(Billing reference BW3281IA)		
Site Protection and Monitoring Programme in accordance with condition 2.8.1	07/06/06	
An assessment of the adequacy of the containment measures in accordance with Improvement Condition 2	30/06/06	
Produce and implement written procedures and install necessary infrastructure to cover the storage and treatment of tanker wash sludge and pre-treatment and storage of oil contaminated sludge's	30/06/06	
Permit variation application BW3281IA/V002	29/06/06	
Date of effect of variation (Billing reference XP3731LH)	14/08/06	
Agency variation determined Application BW3281IA/V003 (Billing reference CP3035VW)	12/03/14	Agency variation to implement the changes introduced by IED
Application EPR/BW3281IA/V004 (variation and consolidation)	Duly made 29/10/14	Application to vary and consolidate previous variations
Variation determined EPR/BW3281IA (Billing reference MP3434WH)	20/01/15	Varied permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/BW3281IA

Issued to

Veolia ES (UK) Limited ("the operator")

whose registered office is

210 Pentonville Road
London
N1 9JY

company registration number **02481991**

to operate a regulated facility at

Redbournbury Treatment Plant
Redbourn Road
St Albans
Hertfordshire
AL3 6RP

to the extent set out in the schedules.

The notice shall take effect from 20/01/2015

Name	Date
Thomas Ruffell	**20/01/2015**

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied by the consolidated permit EPR/BW3281IA/V004 as a result of the application made by the operator:

- Condition 3.1.3 has been added (Environment Agency initiated [IED]).
- Conditions 4.3.1 and 4.3.2 have been amended (Environment Agency initiated [IED]).
- Table S3.2 (as referenced by condition 2.3.3) has been amended to include waste codes missed under a previous variation and include a limit for onsite annual throughput capacity.
- Table S4.1 (as referenced by condition 3.1.1) has been amended to re insert emission point A1 missed under a previous variation.
- Table S4.2 (as referenced by conditions 3.1.1, 3.6.1 and 3.6.4) has been amended to update drawing references.
- Table S4.3 (as referenced by conditions 3.1.1, 3.6.1 and 3.6.4) has been amended to change the references for borehole monitoring points previously known as W1, W2 and W3 to read monitoring wells 1, 2 and 3.
- Table S4.4 (as referenced by condition 3.6.1) has been amended to reflect the operator's caustic scrubber monitoring and the working concentration range of the scrubber.
- Table 5.1 (as referenced by condition 4.2.2) has been amended to reflect the revised references for the borehole monitoring points.
- The site plan in schedule 2 has been amended and replaced by the original site plan from permit version A001.
- The emissions plan in schedule 2 has been amended to reference air emission points (A1 & A2), a discharge to sewer (S1), and borehole monitoring points (monitoring well 1, monitoring well 2 and monitoring well 3).
- Schedule 6 as referenced by condition 4.3.2 has been amended to update the notification forms.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BW3281IA

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BW3281IA/V004 authorising,

Veolia ES (UK) Limited ("the operator"),

whose registered office is

210 Pentonville Road
London
N1 9JY

company registration number **02481991**

to operate an installation at

Redbournbury Treatment Plant
Redbourn Road
St Albans
Hertfordshire
AL3 6RP

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

Name	Date
Thomas Ruffell	**20/01/2015**

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The activities shall be managed and operated:

(a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and

(b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Accidents that may cause pollution

1.2.1 The operator shall:

(a) maintain and implement an accident management plan;

(b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;

(c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

1.3.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

1.4.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every 4 years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any appropriate further measures identified by a review.

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

1.5.1. The operator shall:

(a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;

(b) review and record at least every 4 years whether changes to those measures should be made; and

(c) take any further appropriate measures identified by a review.

1.6 Site security

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

2. Operations

2.1 Permitted activities

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

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

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 2 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1 table S1.2, unless otherwise agreed in writing by the Agency.

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

2.3.3 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 3 table(s) S3.2, S3.3, S3.4, S3.5 ; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

(c) it is only processed in the activity specified in Table S1.1 of Schedule 1.

2.3.4 Records shall be kept of all waste accepted onto the site.

2.3.5 The Operator shall ensure that where waste produced at the Permitted Installation(s) is sent to a waste recovery or disposal facility, the facility in question is provided with the following information, prior to receipt of the waste:

- The nature of the process producing the waste
- The composition of the waste
- The handling requirements of the waste
- The hazard classification associated with the waste
- The waste code of the waste

2.3.6 The Operator shall ensure that where waste produced at the Permitted Installation(s) is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Off-site conditions

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

2.5 Improvement programme

2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.

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

2.6 Pre-operational conditions

2.6.1 There are no pre-operational conditions in this permit.

2.7 Closure and decommissioning

2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.

2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.

2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.

2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

2.8.1 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

3. Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 4 tables S4.1, S4.2 and S4.3.

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

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Transfers off-site

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

3.3 Fugitive emissions of substances

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

3.3.2 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.4 Odour

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

3.5 Noise and vibration

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

3.6 Monitoring

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

(a) point source emissions specified in tables S4.1 and S4.2;

(b) other monitoring requirements specified in table S4.3

(c) process monitoring specified in table S4.4.

3.6.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.

3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.

3.6.5 Within 6 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the site protection and monitoring programme shall be collected and submitted to the Agency.

4. Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) the site protection and monitoring programme.

4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

4.1.3 All records required to be held by this permit shall be held on the installation [on-site] and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

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

(a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;

(b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;

(c) the annual production /treatment data set out in schedule 5 table S5.2;

(d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and

(e) details of any contamination or decontamination of the site which has occurred.

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 5 table S5.1;

(b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency

4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.

4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:

(a) as soon as practicable prior to the permanent cessation of any of the activities;

(b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and

(c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.

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

4.3.5 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.

4.3.7 The Agency shall be provided, within 14 days of the operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.

4.3.8 The Agency shall be notified within 14 days of the operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.

4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

(a) any change in the operator's trading name, registered name or registered office address;

(b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and

(c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

4.4 Interpretation

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

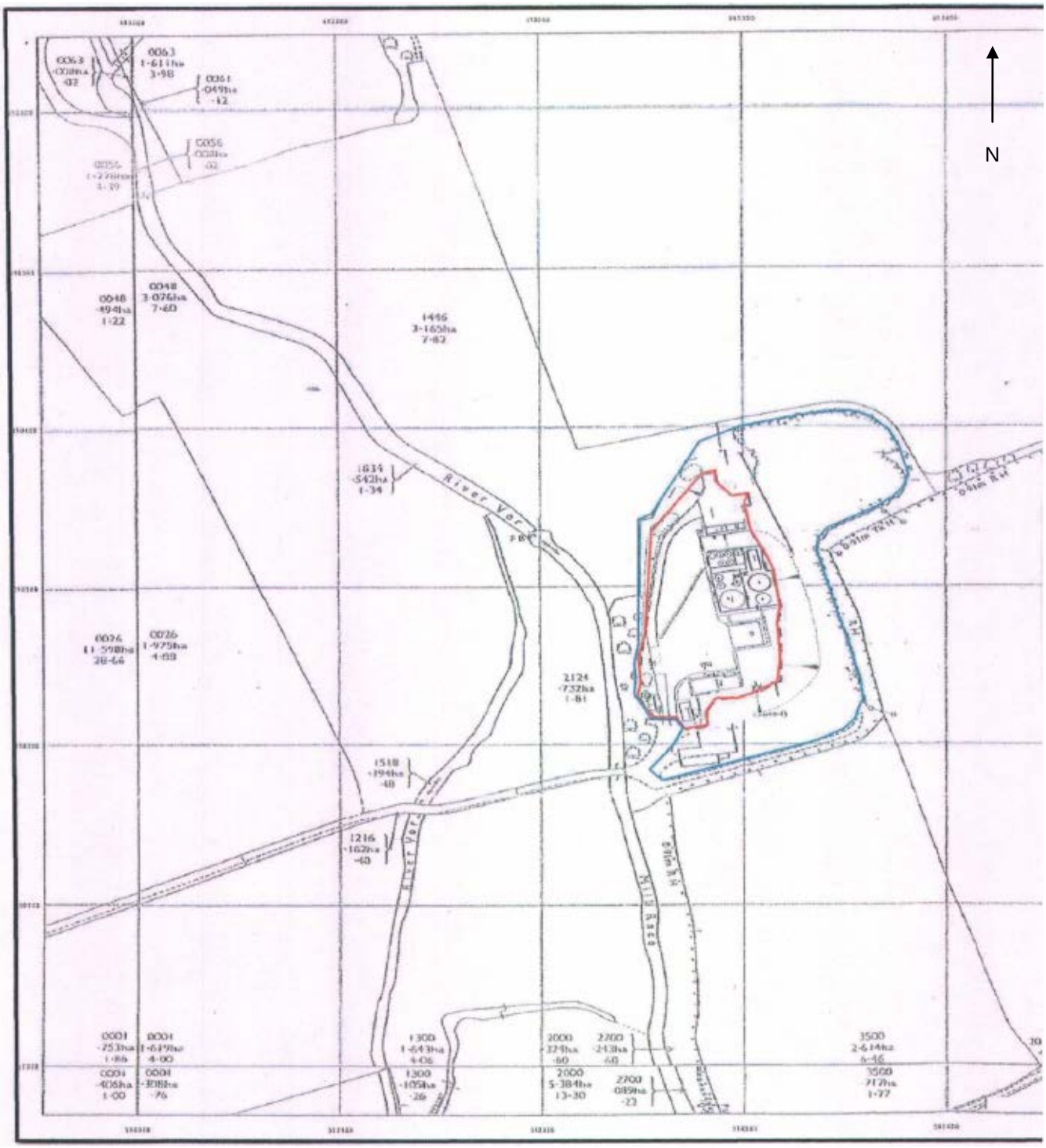
Schedule 1 - Operations

Table S1.1 activities		
Activity listed in Schedule 1 of the PPC Regulations	**Description of specified activity and WFD Annex IIA and IIB operations**	**Limits of specified activity and waste types**
Section 5.3 A(1) a) (ii) : Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	D9 neutralisation	Asterisked wastes in EWC list in table 3.2 of the permit to be treated in tanks R1 and R2
Section 5.6 A(1) (a) : Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3 and 5.6 (b)	D15 associated storage of hazardous waste prior to treatment	Asterisked wastes in EWC list in table 3.2 of the permit. To be stored in tanks S1, S2, S3, S4 and A/STO
Section 5.4 A(1) a) (ii): Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment	D9 the filtration and solid phase separation of non-hazardous waste	Materials processed in tanks R1, R2 and ST
Section 5.3 A(1) a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	R3 immiscible organic phase separation of waste oil	Any wastes ticked in EWC list in table 3.3 of the permit. Wastes with an immiscible phase to be stored in tanks S1 and S2
Directly Associated Activity		
Storage of Non-Hazardous waste	The storage of non-hazardous waste prior to disposal	Un-Asterisked wastes in EWC list in table 3.2 of the permit.
Tanker wash	Washing heavy sludge/residues from tanker after tipping using	Any wastes in EWC list in table 3.2 of the permit

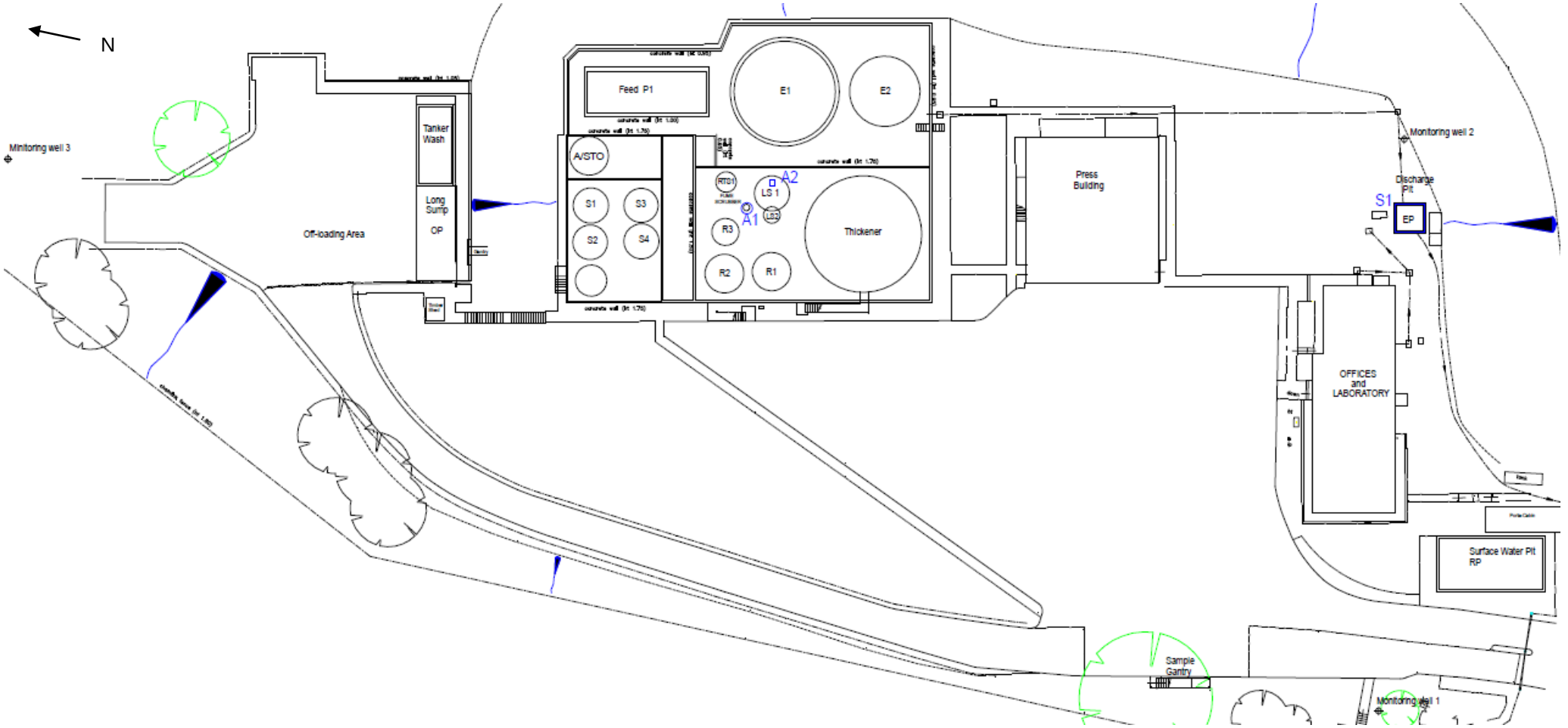
Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Waste Hierarchy	The response is given in file 1 section B2.1.4 – B2.1.6 and file 2 item 4	03/08/05
Pre-acceptance procedure to assess waste	The response is given in file 1 section B2.1.7 – B2.1.9 and file 2 item 4	03/08/05
Acceptance procedures when waste arrives at the installation	The response is given in file 1 section B2.1.7 – B2.1.9 and file 2 item 5 and item 6.	03/08/05
Waste Storage	The responses are referenced in section 2.1.10 to 2.1.19. The permit excludes the answer to question B2.1.12 and 2.1.18. The wastes described in File 2 item 2 shall be excluded and replaced with list of waste types in schedule 6 of this permit.	03/08/05
Waste Treatment	Plans are given in file 3 item 2 and 3. Responses are given in file 2 items 2, 3, 4, 5, 10, 13 and 16. Also in file 1 section B2.1.23	03/08/05
Point source emissions to air and sewer	The response is given in file 1 section B2.2.3, B2.2.4 and B2.2.8 – B2.2.23	03/08/05
Point source emissions to Groundwater	The response is given in section B2.2.25 to B2.2.32 of the PPC application	03/08/05
Fugitive emissions to surface water, sewer and groundwater	The response is given in file 1 section B2.2.35, B2.2.36, B2.2.39, B2.2.41. Supplementary plans have been submitted to support question B2.2.37 in file 3 item 2.	03/08/05
Odour	The responses to questions B2.2.42 – 2.2.44 are referenced in these sections	03/08/05
Proposed Improvement Programme	The responses to questions B9.0.1 reference File 2 item 52	03/08/05

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC 1	The Operator shall produce and implement written procedures (and any amendments to them) to reduce and where possible prevent emissions of substances to sewer that possess the potential to cause an environmental impact, in accord with section 2.2.2 of Sector Guidance Note IPPC S5.06, December 2004.	01/09/06
IC 2	The Operator shall assess the adequacy of the current containment measures employed on site to prevent fugitive emissions to surface water, sewer and ground water that accord with section 2.2.5 and 2.8 of Sector Guidance Note S5.06, December 2004. The Operator shall submit a written report that details the findings of the assessment and proposes a timetable for implementing the recommendations of the report to the Agency for approval.	Completed 30/06/06
IC 3	The Operator shall install the infrastructure required to prevent fugitive emissions to sewer via three 'gully pots' or drains situated under the filter presses.	01/04/07
IC 4	The Operator shall install the infrastructure required to control emissions to air from all storage and treatment tanks that accord with Section 2.1.3 of Sector Guidance Note S5.06, December 2004.	01/05/08
IC 5	The Operator shall install infrastructure or provide evidence for the adequacy of the existing infrastructure required to control fugitive emissions to groundwater from all subsurface structures that accord with Section 2.1.3 of Sector Guidance Note S5.06, December 2004.	01/03/09
IC 6	The Operator shall produce and implement written procedures (and any amendments to them) that accord with section 2.1.3 of Sector Guidance Note S5.06, December 2004 to cover the labelling of all vessels, pipes and valves on site.	01/09/06
IC 7	The operator shall produce and implement written procedures and install the necessary infrastructure (and any amendments to them) that accord with guidance PPG2, February 2004 to cover the above ground oil storage tanks.	01/09/06
IC 8	The operator shall produce and implement written procedures and install the necessary infrastructure (and any amendments to them) that accord with section 2.1.3 and 2.1.4 of Sector Guidance Note S5.06, December 2004 to cover the storage and treatment of tanker wash sludge and the pre-treatment and storage of oil contaminated sludge's.	Completed 30/06/06

Schedule 2 - Site plan



Emission Points



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Hydrated Lime	

Table S3.2 Permitted waste types and quantities for hazardous waste storage and neutralisation	
Maximum quantity	110 m^3 for reaction tanks R1 and R2 neutralisation 290 m^3 capacity for tanks S1, S2, S3, S4 and A/STO Hazardous waste storage The total quantity of waste accepted onto the site for storage, and treatment including neutralisation, oil phase separation, filtration shall not exceed 74,000 tonnes per year.
Waste code	**Description**
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03 04*	acid-generating tailings from processing of sulphide ore A
01 03 05*	other tailings containing dangerous substances M
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals M
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04 07*	wastes containing dangerous substances from physical and chemical processing of M non-metalliferous minerals
01 04 09	waste sand and clays
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05 04	freshwater drilling muds and wastes
01 05 05*	oil-containing drilling muds and wastes M
01 05 06*	drilling muds and other drilling wastes containing dangerous substances M
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02 01 01	sludges from washing and cleaning
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 02 01	sludges from washing and cleaning
02 02 04	sludges from on-site effluent treatment
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05 02	sludges from on-site effluent treatment

02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03 02 04*	inorganic wood preservatives A
03 02 05*	other wood preservatives containing dangerous substances M
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 01 02	liming waste
04 01 03*	degreasing wastes containing solvents without a liquid phase M
04 01 04	tanning liquor containing chromium
04 01 05	tanning liquor free of chromium
04 01 06	sludges, in particular from on-site effluent treatment containing chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 09	wastes from dressing and finishing
04 02 10	organic matter from natural products (for example grease, wax)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 16*	dyestuffs and pigments containing dangerous substances M
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 19*	sludges from on-site effluent treatment containing dangerous substances M
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05 01 02*	desalter sludges A
05 01 03*	tank bottom sludges A
05 01 05*	oil spills A
05 01 06*	oily sludges from maintenance operations of the plant or equipment A
05 01 09*	sludges from on-site effluent treatment containing dangerous substances M
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 11*	wastes from cleaning of fuels with bases A
05 01 12*	oil containing acids M
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 15*	spent filter clays A
05 06 04	waste from cooling columns
05 07 01*	wastes containing mercury M
05 07 02	wastes containing sulphur
06 01 01*	sulphuric acid and sulphurous acid A
06 01 02*	hydrochloric acid A
06 01 03*	hydrofluoric acid A
06 01 04*	phosphoric and phosphorous acid A
06 01 05*	nitric acid and nitrous acid A
06 01 06*	other acids A
06 02 01*	calcium hydroxide A
06 02 03*	ammonium hydroxide A
06 02 04*	sodium and potassium hydroxide A
06 02 05*	other bases A
06 03 13*	solid salts and solutions containing heavy metals M
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 15*	metallic oxides containing heavy metals M
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 04 03*	wastes containing arsenic M
06 04 04*	wastes containing mercury M
06 04 05*	wastes containing other heavy metals M

06 05 02*	sludges from on-site effluent treatment containing dangerous substances M
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 07 04*	solutions and acids, for example contact acid A
06 09 03*	calcium-based reaction wastes containing or contaminated with dangerous substances M
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 10 02*	wastes containing dangerous substances M
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides. A
07 01 01*	aqueous washing liquids and mother liquors A
07 01 10*	other filter cakes and spent absorbents A
07 01 11*	sludges from on-site effluent treatment containing dangerous substances M
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 01*	aqueous washing liquids and mother liquors A
07 02 10*	other filter cakes and spent absorbents A
07 02 11*	sludges from on-site effluent treatment containing dangerous substances M
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 14*	wastes from additives containing dangerous substances M
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 16*	wastes containing dangerous silicones M
07 02 17	wastes containing silicones other than those mentioned in 07 02 16
07 03 01*	aqueous washing liquids and mother liquors A
07 03 10*	other filter cakes and spent absorbents A
07 03 11*	sludges from on-site effluent treatment containing dangerous substances M
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04 01*	aqueous washing liquids and mother liquors A
07 04 10*	other filter cakes and spent absorbents A
07 04 11*	sludges from on-site effluent treatment containing dangerous substances M
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 04 13*	solid wastes containing dangerous substances M
07 05 01*	aqueous washing liquids and mother liquors A
07 05 10*	other filter cakes and spent absorbents A
07 05 11*	sludges from on-site effluent treatment containing dangerous substances M
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 06 01*	aqueous washing liquids and mother liquors A
07 06 10*	other filter cakes and spent absorbents A
07 06 11*	sludges from on-site effluent treatment containing dangerous substances M
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07 01*	aqueous washing liquids and mother liquors A
07 07 10*	other filter cakes and spent absorbents A
07 07 11*	sludges from on-site effluent treatment containing dangerous substances M
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances M
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances M
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 17*	wastes from paint or varnish removal containing organic solvents or other dangerous substances M
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances M
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 01 21*	waste paint or varnish remover A
08 02 01	waste coating powders
08 02 02	aqueous sludges containing ceramic materials

08 02 03	aqueous suspensions containing ceramic materials
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 12*	waste ink containing dangerous substances M
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 14*	ink sludges containing dangerous substances M
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 16*	waste etching solutions A
08 03 17*	waste printing toner containing dangerous substances M
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 03 19*	disperse oil A
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
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 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances M
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
09 01 01*	water-based developer and activator solutions A
09 01 02*	water-based offset plate developer solutions A
09 01 04*	fixer solutions A
09 01 05*	bleach solutions and bleach fixer solutions A
09 01 06*	wastes containing silver from on-site treatment of photographic wastes M
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06 A
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 04*	oil fly ash and boiler dust A
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 09*	sulphuric acid A
10 01 13*	fly ash from emulsified hydrocarbons used as fuel A
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing dangerous substances M
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 16*	fly ash from co-incineration containing dangerous substances M
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 18*	wastes from gas cleaning containing dangerous substances M
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 20*	sludges from on-site effluent treatment containing dangerous substances M
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 22*	aqueous sludges from boiler cleansing containing dangerous substances M
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02 01	wastes from the processing of slag
10 02 11*	wastes from cooling-water treatment containing oil M
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances M
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 05	waste alumina
10 03 19*	flue-gas dust containing dangerous substances M
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 21*	other particulates and dust (including ball-mill dust) containing dangerous substances M
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21

10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances M
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 27*	wastes from cooling-water treatment containing oil M
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 29*	wastes from treatment of salt slags and black drosses containing dangerous substances M
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04 03*	calcium arsenate A
10 04 04*	flue-gas dust A
10 04 05*	other particulates and dust A
10 04 07*	sludges and filter cakes from gas treatment A
10 04 09*	wastes from cooling-water treatment containing oil M
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05 06*	sludges and filter cakes from gas treatment A
10 05 08*	wastes from cooling-water treatment containing oil M
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 06 03*	flue-gas dust A
10 06 04	other particulates and dust
10 06 07*	sludges and filter cakes from gas treatment A
10 06 09*	wastes from cooling-water treatment containing oil M
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 07*	wastes from cooling-water treatment containing oil M
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 04	particulates and dust
10 08 15*	flue-gas dust containing dangerous substances M
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances M
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 19*	wastes from cooling-water treatment containing oil M
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09 09*	flue-gas dust containing dangerous substances M
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 11*	other particulates containing dangerous substances M
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 13*	waste binders containing dangerous substances M
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 15*	waste crack-indicating agent containing dangerous substances M
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10 09*	flue-gas dust containing dangerous substances M
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 11*	other particulates containing dangerous substances M
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 13*	waste binders containing dangerous substances M
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 15*	waste crack-indicating agent containing dangerous substances M
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11 05	particulates and dust
10 11 09*	waste preparation mixture before thermal processing, containing dangerous substances M
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 13*	glass-polishing and -grinding sludge containing dangerous substances M
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 15*	solid wastes from flue-gas treatment containing dangerous substances M
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances M

10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 19*	solid wastes from on-site effluent treatment containing dangerous substances M
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 09*	solid wastes from gas treatment containing dangerous substances M
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 11*	wastes from glazing containing heavy metals M
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 12*	solid wastes from gas treatment containing dangerous substances M
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
10 14 01*	waste from gas cleaning containing mercury M
11 01 05*	pickling acids A
11 01 06*	acids not otherwise specified A
11 01 07*	pickling bases A
11 01 08*	phosphatising sludges A
11 01 09*	sludges and filter cakes containing dangerous substances M
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 11*	aqueous rinsing liquids containing dangerous substances M
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 13*	degreasing wastes containing dangerous substances M
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances M
11 01 16*	saturated or spent ion exchange resins A
11 01 98*	other wastes containing dangerous substances M
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite) A
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances M
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07*	other wastes containing dangerous substances M
11 05 03*	solid wastes from gas treatment A
11 05 04*	spent flux A
12 01 06*	mineral-based machining oils containing halogens (except emulsions and solutions) A
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions) A
12 01 08*	machining emulsions and solutions containing halogens A
12 01 09*	machining emulsions and solutions free of halogens A
12 01 10*	synthetic machining oils A
12 01 12*	spent waxes and fats A
12 01 14*	machining sludges containing dangerous substances M
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 16*	waste blasting material containing dangerous substances M
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil M
12 01 19*	readily biodegradable machining oil A
12 01 20*	spent grinding bodies and grinding materials containing dangerous substances M
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20

12 03 01*	aqueous washing liquids A
12 03 02*	steam degreasing wastes A
13 01 04*	chlorinated emulsions A
13 01 05*	non-chlorinated emulsions A
13 01 09*	mineral-based chlorinated hydraulic oils A
13 01 10*	mineral-based non-chlorinated hydraulic oils A
13 01 11*	synthetic hydraulic oils A
13 01 12*	readily biodegradable hydraulic oils A
13 01 13*	other hydraulic oils A
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils A 1 For the purpose of this list of wastes, PCBs will be defined as in Directive 96/59/EC.
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils A
13 02 06*	synthetic engine, gear and lubricating oils A
13 02 07*	readily biodegradable engine, gear and lubricating oils A
13 02 08*	other engine, gear and lubricating oils A
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01 A
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils A
13 03 08*	synthetic insulating and heat transmission oils A
13 03 09*	readily biodegradable insulating and heat transmission oils A
13 03 10*	other insulating and heat transmission oils A
13 04 01*	bilge oils from inland navigation A
13 04 02*	bilge oils from jetty sewers A
13 04 03*	bilge oils from other navigation A
13 05 01*	solids from grit chambers and oil/water separators A
13 05 02*	sludges from oil/water separators A
13 05 03*	interceptor sludges A
13 05 06*	oil from oil/water separators A
13 05 07*	oily water from oil/water separators A
13 05 08*	mixtures of wastes from grit chambers and oil/water separators A
13 07 01*	fuel oil and diesel A
13 07 03*	other fuels (including mixtures) A
13 08 01*	desalter sludges or emulsions A
13 08 02*	other emulsions A
16 03 03*	inorganic wastes containing dangerous substances M
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 05 06*	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals M
16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances M
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06 06*	separately collected electrolyte from batteries and accumulators A
16 07 08*	wastes containing oil M
16 07 09*	wastes containing other dangerous substances M
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 02*	spent catalysts containing dangerous transition metals3 or dangerous transition metal compounds M
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
16 08 05*	spent catalysts containing phosphoric acid M
16 08 06*	liquids used as catalysts A
16 08 07*	spent catalysts contaminated with dangerous substances M
16 09 01*	permanganates, for example potassium permanganate A
16 09 02*	chromates, for example potassium chromate, potassium or sodium dichromate A
16 09 03*	peroxides, for example hydrogen peroxide A
16 09 04*	oxidising substances, not otherwise specified A
16 10 01*	aqueous liquid wastes containing dangerous substances M
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01

16 10 03*	aqueous concentrates containing dangerous substances M
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
17 05 03*	soil and stones containing dangerous substances M
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05*	dredging spoil containing dangerous substances M
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 07*	track ballast containing dangerous substances M
17 05 08	track ballast other than those mentioned in 17 05 07
18 02 05*	chemicals consisting of or containing dangerous substances M
18 02 06	chemicals other than those mentioned in 18 02 05
19 01 05*	filter cake from gas treatment A
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes A
19 01 07*	solid wastes from gas treatment A
19 01 10*	spent activated carbon from flue-gas treatment A
19 01 13*	fly ash containing dangerous substances M
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 15*	boiler dust containing dangerous substances M
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 17*	pyrolysis wastes containing dangerous substances M
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 04*	premixed wastes composed of at least one hazardous waste A
19 02 05*	sludges from physico/chemical treatment containing dangerous substances M
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 07*	oil and concentrates from separation A
19 02 08*	liquid combustible wastes containing dangerous substances M
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 02 11*	other wastes containing dangerous substances M
19 04 02*	fly ash and other flue-gas treatment wastes A
19 04 03*	non-vitrified solid phase A
19 04 04	aqueous liquid wastes from vitrified waste tempering
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 07 02*	landfill leachate containing dangerous substances M
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 06*	saturated or spent ion exchange resins A
19 08 07*	solutions and sludges from regeneration of ion exchangers A
19 08 08*	membrane system waste containing heavy metals M
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 10*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09 A
19 08 11*	sludges containing dangerous substances from biological treatment of industrial waste water M
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water M
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 11 03*	aqueous liquid wastes A
19 11 04*	wastes from cleaning of fuel with bases A

19 11 05*	sludges from on-site effluent treatment containing dangerous substances M
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 11 07*	wastes from flue-gas cleaning A
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances M
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 03*	sludges from soil remediation containing dangerous substances M
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 05*	sludges from groundwater remediation containing dangerous substances M
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances M
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20 01 14*	acids A
20 01 15*	alkalines A
20 01 17*	photochemicals A
20 01 19*	pesticides A
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25 A
20 01 27*	paint, inks, adhesives and resins containing dangerous substances M
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing dangerous substances M
20 01 30	detergents other than those mentioned in 20 01 29
20 01 41	wastes from chimney sweeping
20 02 03	other non-biodegradable wastes
20 03 03	street-cleaning residues

Table S3.3 Permitted waste types and quantities for oil phase separation	
Waste codes	120 m^3 maximum of waste contaminated with oil to be stored in Tanks S1 and S2 only
EWC Code	**Description**
See table 3.2 codes	Wastes defined in table 3.2 which are contaminated by an oil phase

Table S3.4 Permitted waste types and quantities for storage of hazardous waste	
Waste codes	290 m^3 of Hazardous waste to be stored in Tanks S1, S2, S3, S4, A/STO
EWC Code	**Description**
See table 3.2 codes	Asterisked Wastes defined in table 3.2.

Table S3.5 Permitted waste types and quantities for filtration process	
Waste codes	300 m^3 of non hazardous waste in Tank ST (sludge thickener)
EWC Code	**Description**
See table 3.2 codes	Wastes processed in Tanks R1, R2 and ST

Schedule 4 – Emissions and monitoring

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

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 as shown in Emissions points plan in schedule 2	-	Chemical Absorption Scrubber	-	-	-	-
A2 as shown in Emissions points plan in schedule 2	Particulate matter	Silo Dust Filter	No limit	Spot sample	6 monthly	Method listed in M18

Table S4.2 Point source emissions to sewer – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 as shown in Emissions points plan in schedule 2	Total Cadmium(expressed as Cd)	treatment plant	0.2mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Total Mercury(expressed as Hg)	treatment plant	0.05mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Total Copper (expressed as Cu)	treatment plant	3.0mg/l	Composite	Monthly	Method listed in M18

S1 as shown in Emissions points plan in schedule 2	Total Zinc(expressed as Zn)	treatment plant	7.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Total Chromium(expressed as Cr)	treatment plant	4.0mg/l	Composite	Monthly	Method listed in M18
S1* as shown in Emissions points plan in schedule 2	Total Lead (expressed as Pb)	treatment plant	3.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Total Nickel (expressed as Ni)	treatment plant	4.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Total Silver (expressed as Ag)	treatment plant	1.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Monohydric Phenols	treatment plant	8.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Formaldehyde as HCHO	treatment plant	5.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Cyanide (expressed as CN)	treatment plant	5.0mg/l	Composite	Monthly	Method listed in M18

S1 as shown in Emissions points plan in schedule 2	Sulphides (expressed as S)	treatment plant	5.0mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Sulphates (expressed as SO_4)	treatment plant	1500mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Chlorine (expressed as HOCl)	treatment plant	25mg/l	Composite	Monthly	Method listed in M18
S1 as shown in Emissions points plan in schedule 2	Ammonia (expressed as N)	treatment plant	100mg/l	Composite	Monthly	Method listed in M18

Table S4.3 Other monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Bore-hole – Monitoring well 1 as shown in Emissions points plan in schedule 2	Cadmium	Quarterly	Periodic	M18 methodology
Bore-hole – Monitoring well 2 as shown in Emissions points plan in schedule 2	Cadmium	Quarterly	Periodic	M18 methodology
Bore-hole – Monitoring well 3 as shown in Emissions points plan in schedule 2	Cadmium	Quarterly	Periodic	M18 methodology
Bore-hole – Monitoring well 1 as shown in Emissions points plan in schedule 2	Mercury	Quarterly	Periodic	M18 methodology

Bore-hole – Monitoring wells 2 as shown in Emissions points plan in schedule 2	Mercury	Quarterly	Periodic	M18 methodology
Bore-hole – Monitoring wells 3 as shown in Emissions points plan in schedule 2	Mercury	Quarterly	Periodic	M18 methodology
S1 as shown in Emissions points plan in schedule 2	Fluoride	Quarterly	Periodic	M18 methodology
S1 as shown in Emissions points plan in schedule 2	Bromides	Quarterly	Periodic	M18 methodology

Table S4.4 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Chemical Absorption Scrubber	NaOH	daily	-	NaOH concentration between 1% to 3%

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to sewer Parameters as required by condition 3.6.1.	S1	Every 6 months	01/01/06
Chemical Absorption Scrubber	Chemical Absorption Scrubber	Every 12 months	01/01/06
Ground water monitoring Parameters as required by condition 3.6.1	Borehole monitoring wells 1, 2, 3	Every 12 months	01/01/06

Table S5.2: Annual production/treatment

Parameter	Units
Volume of treated effluent discharged to sewer	m^3
Volume of Filter Cake taken to Landfill	t
Volume of Non-Hazardous waste accepted in the facility	t
Volume of Hazardous waste accepted in the facility	t

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Reduction in toxic six metals (Cd, Pb, Cr, Cu, Ni, Zn) between incoming waste and outgoing effluent	monthly	% reduction (mg/l)
Energy consumption	monthly	kWh/ m^3
Total raw material used	Annually	tonnes

Table S5.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	
Performance indicators	Form Performance1 or other form as agreed in writing by the Agency	
Land	Form Land 1 or other form as agreed in writing by the Agency	
Production/ treatment	Form Production 1 or other form as agreed in writing by the Agency	
Alternative Technical measures	Form Alternative 1 or other form as agreed in writing by the Agency	
Waste summary reports	RATZ 2 E – Waste Returns Form	

Schedule 6 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	**Notification period**

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 7 - Interpretation

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

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

"a*nnually*" means once every year.

"a*pplication*" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations.

"authorised officer" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

"emissions to land", includes emissions to groundwater.

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

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

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

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

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

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

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

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

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

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

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

"*waste code*" means the six digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

"year" means calendar year ending 31 December.

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

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

(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

(b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

END OF PERMIT