Notice of transfer of whole permit with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Port Clarence Treatment Facility

Augean Treatment Limited
4 Rudgate Court
Walton
Wetherby
LS23 7BF

Transfer notice number
EPR/QP3031TY/T001

Permit number
EPR/QP3031TY

Port Clarence Treatment Facility
Permit number EPR/QP3031TY

Introductory note

This introductory note does not form a part of the permit

The following notice is issued in accordance with regulation 21 and Part 1 of Schedule 5 of The Environmental Permitting (England and Wales) Regulations 2010 (S.I.2010 No. 675) (the Regulations) to transfer a permit issued under the Regulations to operate the regulated facility/facilities

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

Status Log of the permit		
Detail	**Date**	**Response Date**
Application XP3032XH	Duly made 31/03/08	
Additional Information Received		04/09/08
Additional Information Received		25/09/08
Notice requiring further information	19/09/08	17/10/08
Application to change operator		20/10/08
Additional information	Requested 05/11/08	19/11/08
Additional information	Requested 06/11/08	26/11/08
Additional information		19/12/08
Email from operator		20/01/09
Additional information	Requested 09/01/09	09/02/09
Additional information	18/03/09	
Permit determined	10/12/09	
Application EPR/ QP3031TY/T001 (Full transfer of permit EPR/XP3032XH)	Duly made 23/06/2010	
Transfer determined EPR/QP3031TY	16/08/2010	

End of Introductory Note

Transfer of whole permit

Environmental Permitting (England and Wales) Regulations 2010

Transfer notice

Permit number
EPR/QP3031TY

Transfer notice number
EPR/QP3031TY/T001

Operator
Augean Treatment Limited

4 Rudgate Court
Walton
Wetherby
West Yorkshire
LS23 7BF

Company registration number 4062656

Regulated Facility

Port Clarence Treatment Facility
Port Clarence Landfill Site
Off Huntsman Drive
Stockton on Tees
TS2 1UE

The Environment Agency in exercise of its powers under Regulation 21 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations 2010 (SI 2010 No 675) accepts the transfer of this permit

This notice shall take effect from 17/08/2010 00.01 hours

Name	Date
PAUL BUTLER	16/08/2010

Authorised on behalf of the Environment Agency

ENVIRONMENT AGENCY

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Port Clarence Treatment Facility

Augean North Limited
Port Clarence Landfill Site
Off Huntsmans Drive
Stockton on Tees
TS2 1UE

Permit number

XP3032XH

Port Clarence Treatment Facility
Permit Number XP3032XH

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows.

The Port Clarence Treatment Facility is located in an area of 12.3 hectares of land to the south of Port Clarence Landfill site. The treatment facility is located at National Grid reference NZ5190 2195. The site has a tar distillery 580m to the south west and a chemical works 600m to the north east. The nearest residential area is Port Clarence which is 1.5km to the east north east.

The installation is within 0.5 km north west and south east of the Tees and Hartlepool Foreshore Wetlands SSSI which forms part of the Teesmouth and Cleveland Coast Ramsar site and Special Protection Area (SPA). The North Yorkshire Moors SPA is also within 10km.

This treatment facility will treat both hazardous and non hazardous waste and will consist of three independent plants, soil washing and recovery plant, waste stabilisation plant and a bioremediation plant.

The soil washing plant is designed for the treatment of contaminated soils. Water from an onsite lagoon washes the soil and the material is separated into graded fractions that produced a range of recovered materials that include sand and gravel, aggregate and soil. Waste materials can be either further treated or be landfilled.

The waste stabilisation plant is designed for the treatment of contaminated soil and granular waste by mixing with cement, air pollution control residues or other lime based materials. The stabilised waste will be disposed of at a suitable landfill site.

The bioremediation process is designed for the treatment of soils and other wastes by enhancing the natural breakdown of organic contaminants present in the waste. Liquid nutrients are added to the waste to promote the degradation of organic contaminants with naturally occurring bacteria. The soil like material produced will be either used at the Port Clarence Landfill or at other suitable locations off site.

Emissions to air consist of insignificant particulate emissions from the cement/air pollution control residue silo and the waste stabilisation mixer, both emission points are abated using bag filters. Odorous material is limited by management procedures contain within the waste acceptance procedures. There are no emissions to surface water or sewer.

The site operates an internal environmental management system which is externally audited.

The operator has requested the temporary storage of filter cake waste from the Olympics sites in London prior to onsite treatment. This will be stored on a non CQA plastic liner on land to the north of the main treatment and storage areas. The temporary storage will be for a maximum of 2 years.

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

Status Log of the permit		
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Email from operator		20/01/09
Additional information	Requested 09/01/09	09/02/09
Additional information	18/03/09	
Permit determined	10/12/09	

Other Part A installations relating to this installation		
Operator	**Permit Number**	**Date of Issue**
Augean North Limited	BV1399IT	27/02/04
Augean North Limited	BV1402IC	14/07/04
Augean Treatment Limited	EA/EPR/YP3234XR	14/05/09

End of Introductory Note

Permit

Permit number
XP3032XH

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby authorises
Augean North Limited ("the operator"),

whose registered office is

4 Rudgate Court
Walton
Wetherby
West Yorkshire
LS23 7BF

company registration number 3652506

to operate *an installation* at
Port Clarence Treatment Facility
Off Huntsmans Drive
Port Clarence
Stockton on Tees
TS2 1UE

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

Signed	Date
A Hunter	10 December 2009

Alan Hunter, Permitting Team Leader, National Permitting Service, Newcastle

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 Accident management plan

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 identified 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.

1.7 Multiple operator installations

1.7.1 No condition applies

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").

2.2 The site

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

2.2.2 The area edged in light blue shall only be used for the temporary storage of waste from the Olympics sites as designated in schedule 3 table S3.8. Storage in this area is only permitted until 31/12/10.

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, S3.6, S3.7 and S3.8; and

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

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

2.4 Off-site conditions

2.4.1 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) ground water specified in table S4.2.

(b) ambient air monitoring specified in table S4.3.

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

There are no pre-operational conditions attached to 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.

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 table S4.1.

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

3.2 Transfers off-site

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

3.3 Fugitive emissions of substances

3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including those specified in schedule 1 table S1.4, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.3.2 Litter or mud arising from the activities shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.

3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the site as soon as practicable

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

3.4 Odour

3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, including those specified in schedule 1 table S1.5, 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 the monitoring specified in the following tables in schedule 4 to this permit:

(a) point source emissions specified in table S4.1, and

(b) ground water specified in table S4.2;

(c) ambient air monitoring specified in table S4.3.

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 table S4.1 unless otherwise specified in that schedule.

4. Information

4.1 Records

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

(a) be legible;

(b) be made as soon as reasonably practicable;

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

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

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

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

4.2 Reporting

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

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

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

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

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

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

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

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

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

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

4.2.3 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.

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

4.2.5 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

4.3 Notifications

4.3.1 The Agency shall be notified without delay following the detection of:

(a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;

(b) the breach of a limit specified in the permit;

(c) any significant adverse environmental effects.

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

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

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

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

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

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

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

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

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

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

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

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

(b) 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	Limits of specified activity
S5.3 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.	Phyisico-chemical treatment of hazardous waste in the soil washing plant (D9, D15, R3, R4 and R5).	From receipt and storage of solid hazardous waste and other raw materials at the soil washing plant to the off site dispatch of waste/products from the plant. Waste types and quantities as specified in Schedule 3 Table S3.2 and limitations to treatment as specified in Schedule 3 Table S3.3.
S5.3 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.	Physico-chemical treatment of hazardous waste in the Waste Stabilisation Plant (D9, D15)	From receipt and storage of solid and sludge hazardous wastes and other raw materials at the waste stabilisation plant to the off site dispatch of waste from the plant. Waste types and quantities as specified in Schedule 3 Tables S3.4, S3.8 and limitations to treatment as specified in Schedule 3 Table S3.5.
S5.3 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.	Biological treatment of hazardous waste in the Bioremediation area (D8, D15, R3)	From receipt and storage of solid hazardous waste and other raw materials at the bioremediation area to the off site dispatch of waste / products from the area. Waste types, quantities as specified in Schedule 3 Tables S3.6 and limitations to treatment specified in Schedule table S3.7.
S5.3 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.	Storage of hazardous waste (D15, R13)	Storage of solid and sludge hazardous waste prior to and post treatment. Waste types, quantities as specified in Schedule 3 Tables S3.2, S3.4, S3.6, and S3.8 and limitations to treatment specified in Schedule Tables S3.3, S3.5 and S3.7.
S5.3 A1 (c)(i) : Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment, not being treatment specified in any paragraph other than paragraph D8 of 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 (D8).	Biological treatment of non hazardous waste in the Bioremediation area. (D8, R3)	From receipt and storage of solid waste and other raw materials at the bioremediation area to the off site dispatch of waste / products from the area. Waste types, quantities to treatment as specified in Schedule 3 Table S3.6 and limitations to treatment specified in Schedule 3 Table S3.7.
S5.3 A1 (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 operation numbered D1 to D12 in that Annex (for example, evaporation, drying, calcination, etc.) (D9).	Physico-chemical treatment of non hazardous waste in the soil washing plant (D9, R3, R4, R5)	From receipt and storage of solid waste and other raw materials at the soil washing plant to the off site dispatch of waste/products from the plant. Waste types as specified in Schedule 3 Table S3.2 and limitations to treatment as specified in Schedule 3 Table S3.3.

Table S1.1 activities		
Activity listed in Schedule 1 of the PPC Regulations	**Description of specified activity**	**Limits of specified activity**
S5.3 A1 (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 operation numbered D1 to D12 in that Annex (for example, evaporation, drying, calcination, etc.) (D9).	Phyisico-chemical treatment of non hazardous waste in the Waste Stabilisation Plant (D9)	From receipt and storage of sludge and solid waste and other raw materials at the waste stabilisation plant to the off site dispatch of waste from the plant. Waste types as specified in Schedule 3 Table S3.4 and limitations to treatment as specified in Schedule 3 Table S3.5.
S3.1 B(b) : Blending cement in bulk or using cement in bulk other than at a construction site, including the bagging of cement and cement mixtures, the batching of ready mixed concrete and the manufacture of concrete blocks and other cement products.	Cement Storage Silo	Receipt and storage of cement in the cement silo.
Directly Associated Activity		
Waste Storage	Storage of non hazardous wastes prior to and post treatment on site.	From receipt and storage of solid and sludge non-hazardous waste prior to and post treatment. Waste types, quantities and limitations as specified in Schedule 3 Tables S3.2, S3.3, S3.4, S3.5, S3.6, S3.7 and S3.8.
Electrical power generation	Diesel generators	Includes oil receipt and storage to distribution of electricity around site.
Surface water management	Collection and recycling of surface and process water.	Drainage of hardstanding areas and collection and storage in the surface water holding lagoon.

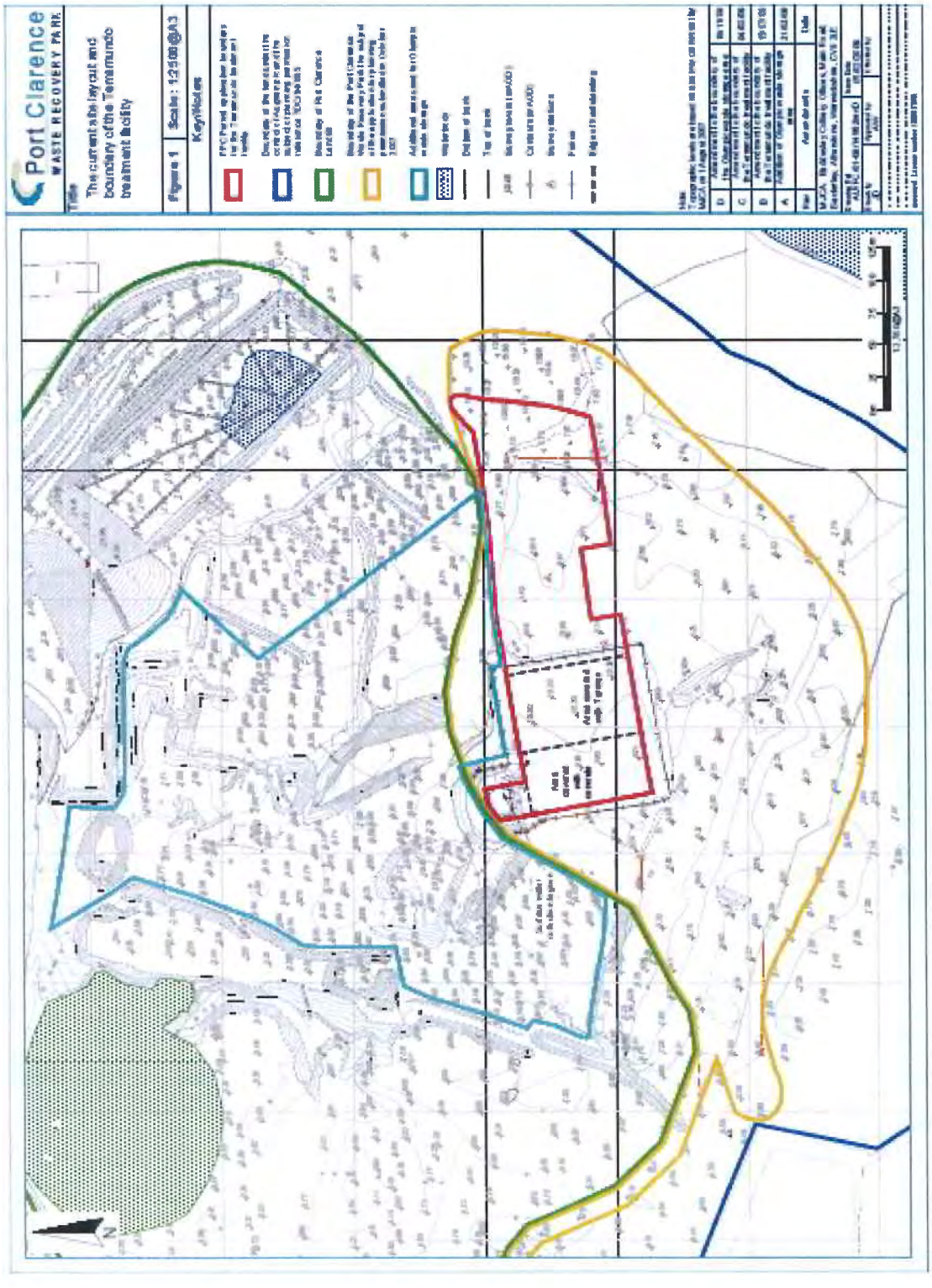
Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to section 2.1, and 2.2 excluding 2.2.9, 2.10.19, 2.10.22, 2.10.25, 2.10.26 and 2.10.27 in the Application.	31/03/08
Response to Schedule 4 Notice dated 17/10/08	Response to question 3, 4, 5, 6, 7, 8, 10, 11, 12, 16, 22 and 24.	17/10/08
Additional information	Response to question 2 detailing storage of sludges.	19/11/08
Additional information – Temporary storage of waste soil from the Olympic site at Port Clarence	Schedule 1, 2 and 3.	19/12/08
Additional information – Letter dated 05/02/09	Letter only.	10/02/09

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator is to review the waste acceptance criteria and the waste acceptance procedures used for the Port Clarence treatment facility. The review shall include a process flow diagram to identify the correct treatment process. For the waste stabilization process the suitability of storage for sludges shall be addressed as well as the maximum particle size of waste that can be treated in the waste stabilization process. This shall include the pre treatment of the waste at site	01/03/10
IC2	The operator shall submit and implement a groundwater monitoring plan which is designed to clearly demonstrate that the Olympics waste stored in area 10 has not caused contamination to the ground in this area. The plan shall be submitted to the Agency at the reporting address.	1 month prior to waste being accepted in storage area 10.
IC3	The operator shall submit and implement an inspection and maintenance programme for the hardstanding, bunds, storage vessels, sub surface pipework, lagoons and plant and equipment whose failure could cause pollution to the ground and groundwater. The report should be sent to the Agency at the reporting address.	01/03/10
IC4	The operator shall ensure that an area is provided for the storage of drums, skips or containers that contain sludges and that this area is bunded in accordance with Section 2.2.5 Fugitive emissions to surface water, sewer and groundwater as found in the sector guidance note IPPC S5.06. A plan showing the location of these areas shall be sent to the Agency at the reporting address.	1 month prior to sludges being accepted on site.
IC5	An Odour management plan shall be implemented and submitted to the Agency at the reporting address, detailing the measures to be used to control emissions of odour and shall be accordance with Appendix 7 (template for an odour management plan) of Horizontal Guidance Note H4 (Horizontal Guidance for Odour (Part 1).	01/04/10
IC6	The operator shall review the Environmental Monitoring Action Plan submitted in the application and update it to reflect current operations on site. The plan shall be sent to the Environment Agency at the reporting address.	01/10/10
IC7	The operator shall undertake a water efficiency audit. The audit shall follow the indicative BAT requirements for water efficiency as described in Section 2.4.3 of SGN S5.06. Upon completion a summary of the audit shall be submitted to the Agency at the reporting address.	01/01/12

Table S1.4 Appropriate measures for fugitive emissions	
Measure	**Dates**
The operator shall review data resulting from the Environmental Monitoring Action Plan from Attachment B2.2.33 of the application. A summary of the data shall be sent to the Agency at the reporting address	Plan dated 10/10/06

Table S1.5 Appropriate measures for odour	
Measure	**Dates**
Odour management plan	01/01/10

Schedule 2 - Site plan



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Sulphur content of gasoil fuel	Only gas oil as defined in the Sulphur Content of Liquid Fuels Regulations 2000 may be burned.

Table S3.2 Permitted waste types and quantities for Soil Washing Plant	
Maximum quantity	250,000 tonnes/year with hazardous properties H4 – H7, H14.
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 09	waste sand and clays
10	**Waste from thermal processes**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 02	**wastes from the iron and steel industry**
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 07*	solid wastes from gas treatment containing dangerous substances
10 03	**wastes from aluminium thermal metallurgy**
10 03 04*	primary production slags
10 04	**wastes from lead thermal metallurgy**
10 04 01*	slags from primary and secondary production
10 05	**wastes from zinc thermal metallurgy**
10 05 01	slags from primary and secondary production
10 07	**wastes from silver, gold and platinum thermal metallurgy**
10 07 01	slags from primary and secondary production
10 09	**wastes from casting of ferrous pieces**
10 09 03	furnace slag
10 10	**wastes from casting of non-ferrous pieces**
10 10 03	furnace slag
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 16*	waste blasting material containing dangerous substances
12 01 17	waste blasting material other than those mentioned in 12 01 16
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 03*	soil and stones containing dangerous substances
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05*	dredging spoil containing dangerous substances
17 05 06	dredging spoil other than those mentioned in 17 05 05

Table S3.2 Permitted waste types and quantities for Soil Washing Plant	
Maximum quantity	250,000 tonnes/year with hazardous properties H4 – H7, H14.
Waste code	**Description**
17 05 07*	track ballast containing dangerous substances
17 05 08	track ballast other than those mentioned in 17 05 07
17 09	**other construction and demolition wastes**
17 09 03*	other construction and demolition wastes (including mixed wastes) containing dangerous substances
19	**Wastes from waste management facilities, off site waste water treatment plants and the preparation of water intended for the human consumption and water for industrial use.**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 07*	solid wastes from gas treatment
19 01 11*	bottom ash and slag containing dangerous substances
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 13*	fly ash containing dangerous substances
19 01 14	fly ash other than those mentioned in 19 01 13
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 02	waste from desanding
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones
20 03	**other municipal wastes**
20 03 03	street-cleaning residues
20 03 06	waste from sewage cleaning

Table S3.3 Limitations for Soil washing plant		
	Specifications / Limitations	**Comment**
Acceptable physical form of the waste	Solid waste only.	
Acceptable waste hazard properties	H4, H5, H6, H7, H14 only.	
Excluded wastes	Non soil based wastes, highly odorous wastes	
Total Petroleum Hydrocarbons (TPH)	25000 mg/kg max.	
Poly aromatic hydrocarbons (PAH)	2000 mg/kg max.	
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	1000 mg/kg max.	
Heavy metals	2000 mg/kg for each individual metal.	
Ammonia and amine concentrations	<300 ppm	
Formaldehyde	<10 ppm	
PCB's	<50mg/m^3	

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 03	**wastes from physical and chemical processing of metalliferous minerals**
01 03 05*	other tailings containing dangerous substances
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 07*	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 05	**drilling muds and other drilling wastes**
01 05 04	freshwater drilling muds and wastes
01 05 05*	oil-containing drilling muds
01 05 06*	drilling muds and other drilling wastes containing dangerous substances
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02	**Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 01	sludges from washing and cleaning
02 01 08*	agrochemical waste containing dangerous substances
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 04	**wastes from sugar processing**
02 04 02	off-specification calcium carbonate
03	**Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard**
03 01	**wastes from wood processing and the production of panels and furniture**
03 01 04*	sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances
03 02	**wastes from wood preservation**
03 02 01*	non-halogenated organic wood preservatives
03 02 02*	organochlorinated wood preservatives
03 02 03*	organometallic wood preservatives
03 02 04*	inorganic wood preservatives
03 02 05*	other wood preservatives containing dangerous substances
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 09	lime mud waste
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 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 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	organic matter from natural products (e.g. 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
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 19*	sludges from on-site effluent treatment containing dangerous substances
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
05	**Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal**
05 01	**wastes from petroleum refining**
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 15*	spent filter clays
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 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 01*	wastes containing mercury
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 13*	solid salts and solutions containing heavy metals
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 15*	metallic oxides containing heavy metals
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 04	**metal containing waste other than those mentioned in 06 03**
06 04 03*	waste containing arsenic
06 04 04*	waste containing mercury
06 04 05*	waste containing other heavy metals
06 05	**sludges from on site effluent treatment**
06 05 02*	sludges from on site effluent treatment containing dangerous substances
06 05 03	sludges from on site effluent treatment other than those mentioned in 06 05 02
06 06	**wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes**
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 07	**wastes from the MFSU of halogens and halogen chemical processes**
06 07 02*	activated carbon from chlorine production
06 07 03*	barium sulphate sludge containing mercury
06 08	**wastes from the MFSU of silicon and silicon derivatives**
06 08 02*	wastes containing dangerous silicones
06 09	**waste 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
06 10	**wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture**
06 10 02*	wastes containing dangerous substances
06 11	**wastes from the manufacture of inorganic pigments and opacificiers**
06 11 01	calcium based reaction wastes from titanium dioxide production
06 13	**wastes from inorganic chemical processes not otherwise specified**
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides
06 13 02*	spent activated carbon
07	**Wastes from organic chemical processes**
07 01	**wastes from the MFSU of basic organic chemicals**
07 01 09*	halogenated filter cakes and spent absorbents
07 01 10*	other filter cakes and spent absorbents

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
07 01 11*	sludges from on-site effluent treatment containing dangerous substances
07 01 12	sludges from on site effluent treatment other than those mentioned 07 01 11
07 02	**wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 09*	halogenated filter cakes and spent absorbents
07 02 10*	other filter cakes and spent absorbents
07 02 11*	sludges from on-site effluent treatment containing dangerous substances
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 14*	waste from additives containing dangerous substances
07 02 15	waste from additives other than those mentioned in 07 02 14
07 02 16*	waste containing silicones
07 03	**wastes from the MFSU of organic dyes and pigments (except 06 11)**
07 03 9*	halogenated filter cakes and spent absorbents
07 03 10*	other filter cakes and spent absorbents
07 03 11*	sludges from on-site effluent treatment containing dangerous substances
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	**wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09) wood preserving agents (except 03 02) and other biocides**
07 04 09*	halogenated filter cakes and spent absorbents
07 04 10*	other filter cakes and spent absorbents
07 04 11*	sludges from on-site effluent treatment containing dangerous substances
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 04 13*	solid wastes containing dangerous substances
07 05	**wastes from the MFSU of pharmaceuticals**
07 05 09*	halogenated filter cakes and spent absorbents
07 05 10*	other filter cakes and spent absorbents
07 05 11*	sludges from on-site effluent treatment containing dangerous substances
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 13*	solid wastes containing dangerous substances
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	**wastes from the of fats, grease, soaps, detergents, disinfectants and cosmetics manufacture supply and use**
07 06 09*	halogenated filter cakes and spent absorbents
07 06 10*	other filter cakes and spent absorbents
07 06 11*	sludges from on-site effluent treatment containing dangerous substances
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	**wastes from the MFSU of fine chemicals and chemical products not other wise specified**
07 07 09*	halogenated filter cakes and spent absorbents
07 07 10*	other filter cakes and spent absorbents
07 07 11*	sludges from on-site effluent treatment containing dangerous substances
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	**Wastes from the manufacture, formulation, supply and use 9mfsu) 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 14	sludges from paint and varnish other than those mentioned in 08 01 13
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
08 01 21*	waste paint or varnish remover
08 03	**wastes from MFSU of printing inks**
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 14*	ink sludges containing dangerous substances
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 17*	waste printing toner containing dangerous substances
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 10	adhesives and sealants other than those mentioned in 08 04 09
08 04 11*	adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 05	**wastes not otherwise specified in 08**
08 05 01*	waste isocyanates
09	**Wastes from the photographic industry**
09 01	**wastes from the photographic industry**
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
10	**Wastes from thermal processes**
10 01	**wastes from power stations and other combustion plants (except 19)**
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 16*	fly ash from co incineration containing dangerous substances
10 01 18*	wastes from gas cleaning containing dangerous substances
10 01 19	waste from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 20*	sludges from on-site effluent treatment containing dangerous substances
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 24	sands from fluidised beds
10 01 25	waste from fuel storage and preparation of coal-fired power plants
10 01 26	waste from cooling-water treatment
10 02	**waste from the iron and steel industry**
10 02 01	waste from the processing of slag
10 02 07*	solid waste from gas treatment containing dangerous substances
10 02 08	solid waste from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 11*	waste from cooling water treatment containing oil
10 02 12	waste from cooling water treatment other than those mentioned in 10 02 11
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	**wastes from aluminium thermal metallurgy**
10 03 04*	primary production slags
10 03 05	waste alumina
10 03 08*	salt slags from secondary production
10 03 09*	black drosses from secondary production
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 17*	tar-containing wastes from anode manufacture

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
10 03 18	carbon-containing waste from anode manufacture other than those mentioned in 10 03 17
10 03 23*	solid wastes from gas treatment containing dangerous substances
10 03 24	solid waste from gas treatment other than those mentioned in 10 03 23
10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 27*	waste from cooling water treatment containing oil
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
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	**wastes from lead thermal metallurgy**
10 04 01*	slags from primary and secondary production
10 04 03*	calcium arsenate
10 04 06*	solid wastes from gas treatment
10 04 07*	sludges and filter cakes from gas treatment
10 04 09*	waste from cooling water treatment containing oil
10 04 10	waste from cooling water treatment other than those mentioned in 10 05 08
10 05	**wastes from zinc thermal metallurgy**
10 05 01	slags from primary and secondary production
10 05 05*	solid waste from gas treatment
10 05 06*	sludges and filter cakes from gas treatment
10 05 08*	wastes from cooling water treatment containing oil
10 05 09	wastes from cooling water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	**wastes from copper thermal metallurgy**
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 06*	solid waste from gas treatment
10 06 07*	sludges and filter cakes from gas treatment
10 06 09*	waste from cooling water treatment containing oil
10 06 10	waste from cooling water treatment other than those mentioned in 10 06 09
10 07	**wastes from silver, gold and platinum thermal metallurgy**
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid waste from gas treatment
10 07 05	sludges and filter cakes from gas treatment
10 07 07*	waste from cooling water treatment containing oil
10 07 08	waste from cooling water treatment other than those mentioned in 10 07 07
10 08	**waste from other non-ferrous thermal metallurgy**
10 08 08*	salt slag from primary and secondary production
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 12*	tar containing wastes from anode manufacture
10 08 13	carbon containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 17*	sludges and filter cakes from flue gas treatment containing dangerous substances
10 08 18	sludges and filter cakes from flue gas treatment other than those mentioned in 10 08 17

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
10 08 19*	waste from cooling water treatment containing oil
10 08 20	waste from cooling water treatment other than those mentioned in 10 08 19
10 09	**wastes from casting of ferrous pieces**
10 09 05*	casting cores and moulds which have not undergone pouring containing dangerous substances
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 07*	casting cores and moulds which have undergone pouring containing dangerous substances
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 13*	waste binders containing dangerous substances
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 15*	waste-crack indicating agent containing dangerous substances
10 09 16	waste-crack indicating agent other than those mentioned in 10 09 15
10 10	**wastes from casting of non-ferrous pieces**
10 10 03	furnace slag
10 10 05*	casting cores and moulds which have not undergone pouring, containing dangerous substances
10 10 07*	casting cores and moulds which have undergone pouring, containing dangerous substances
10 10 13*	waste binders containing dangerous substances
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 15*	waste crack-indicating agent containing dangerous substances
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	**wastes from the 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 14	glass polishing and grinding sludge other than those mentioned in 10 11 13
10 11 15*	solid wastes from flue gas treatment containing dangerous substances
10 11 16	solid wastes from gas treatment other than those mentioned in 10 11 15
10 11 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 19*	solid wastes from on-site effluent treatment containing dangerous substances
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	**wastes from manufacture of ceramic goods, bricks, tiles and construction products**
10 12 05	sludges and filter cakes from gas treatment
10 12 09*	solid wastes from gas treatment containing dangerous substances
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 11*	wastes from glazing containing heavy metals
10 12 12	waste from glazing other than those mentioned in 10 12 11
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 01	waste preparation mixture before thermal processing
10 13 04	waste from calcination and hydration of lime
10 13 07	sludges and filter cakes from gas treatment
10 13 11	waste from cement based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 12*	solid waste from gas treatment containing dangerous substances
10 13 13	solid waste from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
10 14	**waste from crematoria**

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
10 14 01*	waste from gas cleaning containing mercury
11	**Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro metallurgy**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)**
11 01 08*	phosphatising sludges
11 01 09*	sludges and filter cakes containing dangerous substances
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 16*	saturated or spent ion exchange resins
11 01 98*	other wastes containing dangerous substances
11 02	**wastes from non-ferrous hydrometallurgical processes**
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07*	other wastes containing dangerous substances
11 03	**sludges and solids from tempering processes**
11 03 02*	other wastes
11 05	**wastes from hot galvanising processes**
11 05 01	hard zinc
11 05 02	zinc ash
11 05 03*	solid wastes from gas treatment
11 05 04*	spent flux
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 12*	spent waxes and fats
12 01 13	welding wastes
12 01 14*	machining sludges containing dangerous substances
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 16*	waste blasting material containing dangerous substances
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil
12 01 19*	readily biodegradable machining oil
12 01 20*	spent grinding bodies and grinding materials containing dangerous substances
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
12 03	**wastes from water and steam degreasing processes (except 11)**
12 03 02*	steam degreasing wastes
13	**Oil wastes and wastes of liquid fuels**
13 05	**oil/water separator contents**
13 05 01*	solids from grit chambers and oil water separators
13 05 02*	sludges from oil water separators
13 05 03*	interceptor sludges
13 05 08*	mixtures of waste from grit chambers and oil/water separators
13 08	**oil wastes not otherwise specified**

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
13 08 01*	desalter sludges or emulsions
14	**Waste organic solvents, refrigerants and propellants (except 07 and 08)**
14 06	**waste organic solvents, refrigerants and foam/aerosol propellants**
14 06 04*	sludges or solid wastes containing halogenated solvents
15	**Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 10*	packaging containing residues of, or contaminated by, dangerous substances
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths and protective clothing contaminated by dangerous substances
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**Wastes not otherwise specified in the list**
16 03	**off-specification batches and unused products**
16 03 03*	inorganic wastes containing dangerous substances
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 05*	organic wastes containing dangerous substances
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	**gases in pressure containers and discarded chemicals**
16 05 06*	Laboratory chemicals consisting of or containing dangerous substances including measures of laboratory chemicals
16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08*	discarded organic chemicals consisting of or containing dangerous substances
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 07	**wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)**
16 07 08*	wastes containing oil
16 07 09*	wastes containing other dangerous substances
16 08	**spent catalysts**
16 08 02*	spent catalysts containing dangerous transition metals or dangerous transition metal compounds
16 08 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
16 08 07*	spent catalysts contaminated with dangerous substances
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 03*	aqueous concentrates containing dangerous substances
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
16 11	**waste linings and refractories**
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances
16 11 05*	linings and refractories from non-metallurgical processes containing dangerous substances
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 01*	bituminous mixtures containing coal tar
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 03 03*	coal tar and tarred products
17 05	**soil (including excavated soil from contaminated sites) stones and dredging spoil**

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
17 05 03*	soil and stones containing dangerous substances
17 05 05*	dredging spoil containing dangerous substances
17 05 07*	track ballast containing dangerous substances
17 06	**insulation materials and asbestos-containing construction materials**
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08	**gypsum-based construction material**
17 08 01*	gypsum-based construction materials contaminated with dangerous substances
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09	**other construction and demolition wastes**
17 09 01*	construction and demolition wastes containing mercury
17 09 03*	other construction and demolition wastes (including mixed wastes) containing dangerous substances
18	**Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 06*	chemicals consisting of or containing dangerous substances
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 10*	amalgam waste from dental care
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 05*	chemicals consisting of or containing dangerous substances
18 02 06	chemicals other than those mentioned in 18 02 05
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 02	ferrous materials removed from bottom ash
19 01 05*	filter cake from gas treatment
19 01 07*	solid wastes from gas treatment
19 01 10*	spent activated carbon from flue gas treatment
19 01 11*	bottom ash and slag containing dangerous substances
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 17*	pyrolysis wastes containing dangerous substances
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 04*	premixed wastes composed of at least one hazardous waste
19 02 05*	sludges from physico/chemical treatment containing dangerous substances
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 11*	other wastes containing dangerous substances
19 03	**stabilised/solidified wastes**
19 03 04*	waste marked as hazardous, partly stabilised
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 06*	wastes marked as hazardous, solidified
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	**vitrified waste and wastes from vitrification**
19 04 03*	non-vitrified solid phase
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 06*	saturated or spent ion exchange resins

Table S3.4 Permitted waste types and quantities for Waste Stabilisation Plant	
Maximum quantity	200,000 tonnes/year with hazardous properties H4 – H8, H10, H11, H14.
Waste code	**Description**
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 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	**wastes from the preparation of water intended for human consumption or water for industrial use**
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	**wastes from shredding of metal containing wastes**
19 10 03*	fluff-light fraction and dust containing dangerous substances
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 05*	other fractions containing dangerous substances
19 10 06	other fractions other than those mentioned in 19 10 05
19 12	**wastes from the mechanical treatment of waste (e.g. sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
19 13	**wastes from soil and groundwater remediation**
19 13 01*	solid wastes from soil remediation containing dangerous substances
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 03*	sludges from soil remediation containing dangerous substances
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 05*	sludges from groundwater remediation containing dangerous substances
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
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 27*	paint, inks, adhesives and resins containing dangerous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing dangerous substances
20 01 30	detergents other than those mentioned in 20 01 29

Table S3.5 Limitations for Waste Stabilisation Plant		
	Specifications / Limitations	Comment
Acceptable physical form of the waste	Solid and sludge waste only.	The sludge waste shall be able to be stored on hardstanding so that the sludges can be stored in a controlled manner.
Acceptable waste hazard properties	H4, H5, H6, H7, H8, H10, H11, H14 only.	
Excluded wastes	Flammable wastes H3, Liquid waste	
Total Petroleum Hydrocarbons (TPH)	100,000 mg/kg max.	
Poly aromatic hydrocarbons (PAH)	5,000 mg/kg max.	
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	1000 mg/kg max.	

Table S3.5 Limitations for Waste Stabilisation Plant		
	Specifications / Limitations	Comment
Acceptable physical form of the waste	Solid and sludge waste only.	The sludge waste shall be able to be stored on hardstanding so that the sludges can be stored in a controlled manner.
Acceptable waste hazard properties	H4, H5, H6, H7, H8, H10, H11, H14 only.	
Excluded wastes	Flammable wastes H3, Liquid waste	
Heavy metals	10,000 mg/kg for each individual metal.	
Ammonia and amine concentrations	<300 ppm	
Formaldehyde	<10 ppm	
PCB's	<50mg/m3	

Table S3.6 Permitted waste types and quantities for the Bioremediation area	
Maximum quantity	100,000 tonnes/year with hazardous properties H3b, H7.
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 07*	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
01 04 09	waste sand and clays
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 05	**soil (including excavated soil from contaminated sites) stones and dredging spoil**
17 05 03*	soil and stones containing dangerous substances
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05*	dredging spoil containing dangerous substances
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 05*	sludges from physico/chemical treatment containing dangerous substances
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 03	**stabilised/solidified wastes**
19 03 04*	wastes marked as hazardous, partly (5) stabilised
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 11*	sludges containing dangerous substances from biological treatment of industrial waste water
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 12	**wastes from the mechanical treatment of waste (e.g. sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 09	minerals (for example sand, stones)
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
19 13	**wastes from soil and groundwater remediation**

Table S3.6 Permitted waste types and quantities for the Bioremediation area	
Maximum quantity	100,000 tonnes/year with hazardous properties H3b, H7.
Waste code	**Description**
19 13 01*	solid wastes from soil remediation containing dangerous substances
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
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 05*	sludges from groundwater remediation containing dangerous substances
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones

Table S3.7 Limitations for Bioremediation area		
	Specifications / Limitations	Comment
Acceptable physical form of the waste	Solid waste only.	
Acceptable waste hazard properties	H3b, H7 only.	
Excluded wastes	Highly odorous wastes	
Total Petroleum Hydrocarbons (TPH)	10,000 mg/kg max.	
Poly aromatic hydrocarbons (PAH)	1000 mg/kg max.	
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	1000 mg/kg max.	
Heavy metals	1000 mg/kg for each individual metal.	
Ammonia and amine concentrations	<300 ppm	
Formaldehyde	<10 ppm	
PCB's	<50mg/m3	

Table S3.8 Permitted waste types and quantities for Waste storage in Area 10 in Figure 3 of the application for waste originating from the London Olympics site	
Maximum quantity	100,000 tonnes Note 1
Waste code	**Description**
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 13	**wastes from soil and groundwater remediation**
19 13 01*	solid wastes from soil remediation containing dangerous substances
19 13 03*	sludges from soil remediation containing dangerous substances

Note 1: All waste must be removed from Area 10 by 31/12/10

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
SPDF1 [Point SPDF1 on Figure 3 of Attachment 1.3.1B]	Particulates	Powder silo	No visible dust	Spot	Daily	Visual
SPDF2 [Point SPDF2 on Figure 3 of Attachment 1.3.1B]	Particulates	Powder handling	No visible dust	Spot	Daily	Visual
SPDFERV1 [Point SPDFERV1 on Figure 3 of Attachment 1.3.1B]	Particulates	Powder silo emergency pressure relief	No limit set	--	--	Permanent sampling access not required

Table S4.2 Ground water monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Note 1	Note 1	Note 1	Note 1	Note 1

Note 1: The location, monitoring parameters, frequency, monitoring standards and other specifications are to be detailed in the response to improvement condition 2.

Table S4.3 Ambient air monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Note 1	Note 1	Note 1	Note1	Note 1

Note 1: The location, monitoring parameter, frequency, monitoring standards and other specifications are detailed in the Environmental Monitoring Action Plan, Soil Treatment Centre, Port Clarence Landfill Site dated 10/10/06 submitted in Attachment B2.2.33 of the PPC application or any subsequent Environmental Monitoring Action Plan for the Port Clarence Waste Facility agreed in writing by the Environment Agency.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Groundwater monitoring	Note 1	Every 12 months	11/09/09
Environmental monitoring Parameters as required by condition 3.6.1	Note 2	Every 12 months	11/09/09

Note 1: Groundwater monitoring as per Improvement Condition 2
Note 2: Environmental monitoring as per Improvement Condition 6

Table S5.2: Annual production/treatment

Parameter	Units
Soil washing plant waste treatment	tonnes
Waste stabilisation plant waste treatment	tonnes
Bioremediation plant waste treatment	tonnes

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Water usage	Form water usage1 or other form as agreed in writing by the Agency	23/04/09
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	23/04/09
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	23/04/09
Groundwater	Form groundwater 1 or other form as agreed in writing by the Agency	

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 PPC Regulations.

Part A

Permit Number	**XP3032XH**
Name of operator	**Augean North Limited**
Location of Installation	**Port Clarence Treatment Facility** **Off Huntsmans Drive** **Port Clarence** **Stockton on Tees** **TS2 1UE**
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

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

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

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

Part B - to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Augean North Limited

Schedule 7 - Interpretation

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

"*annually*" means once every year.

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

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

"*background concentration*" means such concentration of that substance as is present in:

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

"*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 or background concentration limit.

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

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

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

"notify without delay" and "notified without delay" 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.

"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.

"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