Form PPC1 Waste storage and treatment - application for a permit, variation, transfer or surrender

Pollution Prevention and Control Act, 1999, Pollution Prevention and Control (England and Wales) Regulations 2000 - For Part A(1) Installations

Form IPPC 1 Part A

A1 About your application

A1.0.1 If you know your Application Reference Number, please enter it

Application reference number

A1.0.2 What type of application are you making?

New permit

A1.0.3 Name of the installation?

Envirosol Environmental Management Facility Brownhills

Please tell us if this name is

one that you are proposing

A1.0.4 Please give the address of the site of the installation

Building name or number

Envirosol Ltd

Street

Collier Close

Locality

Coppice Side Industrial Estate

Town

Brownhills

County

West Midlands

Postcode

WS8 7EU

Ordnance Survey national grid reference

10 characters, for example SJ 1234 5678

SK o35o o520

A1.0.5 Give details of any existing permit(s) for the installation.

Please give details of any applicable IPC authorisations, LAPC authorisations, waste management licences or water discharge consents. Click the 'add a row' button if you have more than one to list.

Permit number	Type	Date of issue
None	Select	

A1.0.6 Do you consider that the installation meets the criteria for a 'low impact installation' as defined by the Environment Agency?

No

A2 Authorised contacts

It will help us to have someone who we can contact directly with any questions about your application. The person you name should have the authority to act on your behalf.

A2.0.1 Who can we contact about your application?

Title, for example Mr, Ms, Dr

Mr

First name

Steve

Surname

Simmonds

Position

Agent

Address

Building name or number

70

Street

Walsall Wood Rd

Locality

Aldridge

Town

Walsall

County

West Midlands

Postcode

WS9 8QT

Phone number

01922 452792

Fax number

01922 452792

Email address

sa.simmonds@btinternet.com

A2.0.2 Is there a different person we should contact to discuss operational matters on an ongoing basis?

Yes : contact the person below

Operational contact

Title, for example Mr, Ms, Dr

Mr

First name

Andrew

Surname

Williams

Position

Director

Address

Building name or number

Unit 28

Street

Blowers Green Rd

Locality

Thornleigh Industrial Estate

Town

Dudley

County

West Midlands

Postcode

DY2 8BU

Phone number

01384 241808

Fax number

01384 237519

Email address

ajwilliams@envirosol.co.uk

A3 About the operator

Please provide the information requested below about the 'operator', which means:

- for applications for a new permit – the person who it is proposed will have control over the installation in accordance with the permit (if granted)
- for applications for a variation, transfer or surrender – the person who currently has control over the installation in accordance with the permit.

If you are applying for a transfer, we will ask for more information relating to the proposed new operator (transferee) in Part D.

A3.1 Legal status of operator

A3.1.1 Is the operator an individual, a group of individuals, a partnership or a company/corporate body

Company or corporate body

Full name of company or corporate body

Envirosol Ltd

Trading business name if different

Registered office address

Building name or number

Unit 28

Street

Blowers Green Rd

Locality

Thornleigh Trading Estate

Town

Dudley

County

West Midlands

Postcode

DY2 8UB

Principal business address if different

Building name or number

Street

Locality

Town

County

Postcode

Company registration number

02426382

Date of company formation

29-Sep-1989

Document reference number(s)

Certificate of Incorporation Application Enclosure 1

Document reference number(s)

A3.1.4 Is the operator a subsidiary of a holding company within the meaning of Section 736 of the Companies Act 1985?

No

Form IPPC 1 Part B

Before filling in the application, we suggest you read the overview of the application process, return to the Making your application process map.

For advice on what we expect in your application, how to minimise effort and ensure that you provide what we need and only what we need, click here

This application template follows the same sequence as the guidance. Refer to the guidance before giving the information asked for. It specifies the standards expected.

In addition to this template document, check that you include the items in the Checklist.

B0.1 Filter questions

The electronic version of this form will build itself largely from the answers you give to questions in this section.

All water

B.0.1.1 Does the installation produce aqueous effluent?

No

B.0.1.2 Are there any emissions at all to controlled water or sewer?

No

Groundwater

B.0.1.3 Are there any discharges (for example a soakaway) that may contain substances listed in the Groundwater Regulations 1998 or discharges containing such substances which may lead to such substances reaching the groundwater indirectly (e.g. by landspreading)?

No

Odour

B.0.1.4 Do you believe that the operations have the potential to cause offence or annoyance from odour, and that the local authority officers and the regulator would agree?

No.

Energy

B.0.1.5 Tell us if you hold a valid voluntary agreement for all the activities within the permit

Neither of these

Noise

B.0.1.6 Do you believe that the operations have the potential to cause offence or annoyance from noise, and that the local authority officers and the regulator would agree?

No

Waste

B.0.1.7 Are you applying to operate any "specified waste management activities"

Yes

B.0.1.8 Will your application include the storage of hazardous waste for disposal?

Yes

B.0.1.9 Will your application include hazardous waste treatment processes (including bulking up, blending, etc)?

Yes

B.0.1.10 Will your application include non-hazardous waste treatment processes?

Yes

Do you store non-hazardous waste before treating it?

Yes

B.0.1.11 Will your installation(s) include air emission abatement controls?

Yes

B.0.1.12 Will your installation(s) include the treatment of effluent or contaminated water?

No

Sole permit holder

B.0.1.13 Will you be the only permit applicant or permit holder on the installation?

Yes

B0.2 Non-technical summary

Explanation

Non- Technical Summary

All permitted wastes are accepted. The quantities and timing are a matter of commercial forces. The wastes are always accepted in small (maximum 1 tonne) containers. For commercial reasons the proportion of non-hazardous waste is small.

Some waste may be delivered by tanker, but this will be off-loaded into 1 tonne IBC's for storage.

The purpose of the site is to regroup the assorted wastes into homogenous lorry loads fo delivery to a single disposal point.

The wastes are stored in their packages in various, separately bunded bays arranged according to their hazardous properties. Retention times can be up to 6 months pending the assembly of a complete load.

Wastes are often bulked into larger containers (up to 1 tonne IBC's) for ease of transport.

The drums emptied by the bulking operations are either reused if their condition warrants it or they are crushed or shredded to reduce the volume for disposal or recovery off site. This is considered to be a treatment (D9) activity.

Emissions from the drum crushing and shredding processes will be collected and abated.

All waste handling, processing and storage takes place under cover and no contaminated site water is generated.

B0.3 Checklist

A signed printout of this application form when it is completed, If you use the electronic version of the form (recommended) please also send the ppcWST1.xml data file created by the form. In addition, please send electronic copies of word documents. Use the 'View print version' to access the print-friendly version of your completed form.

The electronic version of the EPOPRA spreadsheet

The appropriate fee

Maps(s) or plans of the area (combine and cross refer as appropriate) showing:

installation location and boundary

sensitive groundwater receptors and geology for List I or II substances emitted to groundwater

other environmentally sensitive receptors, including relevant Habitats sites, etc.

Site plans and diagrams (combine and cross refer as appropriate) showing:

site report information

site surfacing identifying the surfacing materials and construction details

site drainage plan showing, catchments kerbing, falls, sumps, interceptors, isolation valves etc

site operations layout identifying the locations of treatment plant, storage areas, reception areas, quarantine areas, records etc

release points

Process block diagrams (schematics) (if applicable)

Management organogram

A completed inventory and impact assessment for the installation (the H1 methodology is available). If you use the recommended H1 software to model your data, please send us the H1.xml data file created by the application.

Any other items where you are providing copies of your own information

Please list

Appl;ication Enclosure 6 - Abatement proposal

Application Enclosure 10 - Storage Bay construction and capacity details

B1 About the installation

We need details of all the activities and operators at the whole installation, even if you are applying for a permit for part of the installation.

Under ‘Activities in the stationary technical unit’ please identify all activities listed in Schedule 1 of the PPC Regulations that are proposed.

Under ‘Directly associated activities’ please identify all directly associated activities proposed on the same site which:

- have a technical connection with the activities in the stationary technical unit, and

- could have an effect on pollution.

B1.1 Installation table for new permit application

B1.1.1 Installation table for new permit application

Under ‘Schedule 1 references’, please quote the Section number, Part A(1) or A(2) or B, then paragraph and sub-paragraph number as shown in Part 1 of Schedule 1 of the PPC Regulations for each activity listed. (see sector application form user guide for more information)

Under ‘Operator’ give the name of the operator for each activity (if it is you, enter ‘Applicant’).

Add a row to the appropriate table for each activity

Listed activities in the installation

Description of the activity	Schedule 1 reference	Operator	Complexity
Disposal of Hazardous Wastes D15	Section 5.3 Part A (1) a)	**Envirosol**	**B**
Disposal of Hazardous Wastes D13	Section 5.3 Part A (1) a)	**Envirosol**	**B**
Disposal of Hazardous Wastes D9	Section 5.3 Part A (1) a)	**Envirosol**	**B**
Disposal of Waste Oils	Section 5.3 Part A (1) b)	**Envirosol**	**A**

Directly associated activities

Description of the activity	Schedule 1 reference	Operator	Complexity
	Associated Process		

B1.2 Why is the application being made?

B1.2.1 Installation type

the installation is new

B1.3 Site maps and reports

B1.3.1 Please provide the following:

a site report describing the condition of the site for that part of the installation for which you are applying for a permit. Identify any substance in, on or under the land which may constitute a pollution risk

Document reference number for the report

Application Site Report

maps or plans showing the area covered by the site report, location of the installation within the site. You should label each activity at the installation site showing its location, details of the activity

Document reference number for the maps or plan

Application Site Report Appendix A1

maps or plans showing locations of receptors, sources of emissions/releases, monitoring points, areas where emissions have had an impact

Document reference number for the maps or plan

Application Site Report Appendices

maps or plans showing site drainage

Document reference number for the maps or plan

Application Site Report Appendix A4

maps or plans showing site surfacing

Document reference number for the maps or plan

Application Site Report Appendix A3

B1.4 Technical description of the activities

B1.4.1 What types of waste do you handle and what is your annual throughput (see sector application form user guide for more information

Waste management activity (indicate storage or treatment)	Waste classification	Maximum throughputtonnes/yr
Storage of Waste D15	Hazardous	**22,250**
Bulking of Waste D13	Hazardous	**22,250**
Crushing of drums D9	Hazardous	**<2,200**
Shredding of drums D9	Hazardous	**<2,200**
Disposal of Waste Oil	Hazardous	**22,250**
Storage of Waste D15	Non-hazardous	**2,400**
Bulking of Waste D13	Non-hazardous	**2,400**
Crushing of drums D9	Non-hazardous	**<2,200**
Shredding of drums D9	Non-hazardous	**<2,200**

B1.4.2 Please provide a generic block diagram(s) of the waste management activities attributing the Waste Framework Directive Annex IIA and IIB disposal and recovery codes to the operations and indicating how waste treatment materials are transferred from one activity to another (see sector application form user guide for more information)

Document reference

Activities Block Diagram Enclosure 8

B2 Techniques

For sector guidance note (SGN) click here

You need to provide us with a technical description of your facility including how it compares with the requirements in the Sector Guidance Note S5.06 (SGN), particularly in relation to avoidance of waste production, accident prevention and limitation of consequences, waste storage arrangements, and indicative BAT. Where appropriate the relevant section numbers of the SGN have has been included in this application form. Section 2 is laid out to show you the primary information we need, and the level of detail required.

Please bear the following in mind when justifying your performance against the requirements of the PPC Regulations.

- Each indicative BAT option is not compulsory in its own right. They are listed so that the operator can select the options applicable to the installation in question in order to demonstrate that all appropriate pollution preventative measures are taken.
- Even for a well-performing installation the answer may be 'No' for a number of questions. The reason for this may be that:
  - a technique not specified in the SGN is being applied which nonetheless has a similar (if not better) environmental performance;
  - the technique is not applied as its impact is marginal when compared to another technique or combination of techniques;
  - although not applied at the time of application, its implementation has been included in the improvement programme.
- Facilities vary considerably (particularly in the waste treatment sector) and these tables and questions will not answer every situation or allow you to demonstrate the performance of your installation in the way you would prefer. Therefore,
- 'comment/further information' boxes are provided in most sections to allow you to express different approaches or to put your answers into context.

People vary in their preferences for the order in which they tackle issues; e.g. should 'management', or 'materials input' or the 'main activities' be dealt with first? In this document they have been placed in the order of 'main activities', 'management', and then 'materials input'. Please do not be thrown by this but bear with it for the sake of consistency.

In some cases you may already have documentation on site which covers some of the issues. In most (but not all) cases we will be content with your confirmation that this existing documentation covers all of the issues we raise, and the supply of a 'document reference' so that we can audit on site, is all that we require at this stage.

How much detail you put into the 'technical description' is for you to decide, and will depend on the complexity of the facility. Please keep in mind at all times that we want you to focus on the key environmental issues and improvements that need to be made, and to demonstrate that there is a high level of protection of the local and global environment. For further information please see the PPC Sector Permitting Plan - Waste Disposal and Recovery. Providing superfluous information is generally a waste of your time and ours. Your 'technical description' document can be the main part of your submission, with cross-references - or the majority of the information can be put into answer spaces.

We will ask you in PPC compliance assessment to bring this information together to a conclusion.

B2.1 In-process controls

Waste types

B2.1.1 Identify treatment process or storage facility, Waste Framework Directive Annex IIA/IIB operation, waste description and EWC code in the table below (see sector application form user guide for more information)

Add a row to the table for each treatment process/storage facility

Treatment process/storage facility	Annex IIA/IIB operation(s)	Waste description	EWC code(s)

Bay 1	D15/13	Cyanides, sulphides, ammonia, pesticides, herbicieds, caustics	See waste codes enclosure 9
Bay 2	D15/13	Halogenated solvents, resins	See waste codes enclosure 9
Bay 3	D15/13	Oil/water, neutral high flash liquids	See waste codes enclosure 9
Bay 4	D15/13	Oil/water, neutral high flash liquids	See waste codes enclosure 9
Bay 5	D15/13	Neutral high flash solids, white goods, waste not shown elswhere	See waste codes enclosure 9
Bay 6	D15/13	Acidic	See waste codes enclosure 9
Bay 7a	D15	PCB's, carcinogens	See waste codes enclosure 9
Bay 7b	D15	Highly odorous, lachrymatory	See waste codes enclosure 9
Bay 7c	D15	Explosives	See waste codes enclosure 9
Bay 7d	D15	Moisture reactive	See waste codes enclosure 9
Bay 7e	D15	Pyrophoric	See waste codes enclosure 9
Bay 7f	D15	Alkali metals	See waste codes enclosure 9
Bay 7g	D15	Strong reducers	See waste codes enclosure 9
Bay 8	D15/13	Acidic	See waste codes enclosure 9
Bay 9	D15/13	Asbestos	See waste codes

			enclosure 9
Bay 10	D15/13	Solvents FP<55C	See waste codes enlcosure 9
Bay 11	D15/13	Waste reception, sorting, bulking - all waste types recieved as appropriate	See waste codes enclosure 9
Bay 12	D15/13	As Bay 11	See waste codes enclosure 9
Bay 13	D15/13	As Bay 11	See waste codes enclosure 9
Bay 14	D13	Bulking - all waste types as approporiate	See waste codes enclosure 9
Hazardous skip	D15/13	Contaminated materials as bays 3 to 5	See waste codes enclosure 9
Non-hazardous skip	D15/13	Non-hazardous materials and general site rubbish	See waste codes enclosure 9
Drum crusher	D9	Metal/plastic containers	See waste codes enclosure 9
Drum Shredder	D9	Plastic/metal containers	See waste codes enclosure 9

Waste recovery or disposal

B2.1.2 Please identify the waste recovery/disposal routes you propose for each significant waste you dispose of

Add a section for each significant waste you dispose of

Source of the residue

recoverable incoming wastes

Residue

Description

All permitted wastes

How do you propose to deal with it?

Recover

Give details

Oil/water, solvents, metals are sent to recovery facilities

Source of the residue

Non-recoverable incoming wastes

Residue

Description

All permitted wastes

How do you propose to deal with it?

Dispose

Date by which you will implement reuse or recovery, or provide a justification as to why this is technically and economically impossible

All wastes economically recoverable are dealt with as above.

Wastes are recovered as recovery facilities are available.

B2.1.3 Comment or further information

Waste hierarchy

B2.1.4 Are procedures and checks in place to ensure that the production of waste is avoided in accordance with the Waste Framework Directive (see section 1.5 of the SGN)?

Yes

Document reference

Quality and Environmental Manula Operating Procedures (QEMOP)

B2.1.5 Are procedures and checks in place to ensure that where wastes are produced they are recovered unless it is technically and economically impossible to do so?

Yes

Document reference

QEMOP

B2.1.6 If it is technically and economically impossible to do so, are procedures and checks in place to ensure that waste is disposed of whilst avoiding or reducing any impact on the environment?

Yes

Document reference

QEMOP

Pre-acceptance procedures to assess waste

B2.1.7 Are pre-acceptance procedures in place that accord fully with section 2.1.1 of SGN 5.06 to assess a waste enquiry before acceptance at the installation?

Yes

Document reference

QEMOP

B2.1.8 Are measures in place to identify a suitable recovery or disposal route for the waste prior to acceptance on site (excepting emergencies)?

Yes

Document reference

QEMOP

Acceptance procedures when wastes arrives at the installation

B2.1.9 Are appropriate waste acceptance procedures that accord with section 2.1.2 of SGN 5.06 in place to cover the following?

Load arrival: including method of recording the types and quantities of waste, ensuring sufficient storage capacity for the type of waste exists, documents are checked and approved and that waste containers are correctly labelled?

Yes

Document reference

QEMOP

Load inspection: including procedures for inspecting incoming waste?

Yes

Document reference

QEMOP

Sampling of bulk liquid wastes, drummed wastes and laboratory smalls: procedures and checks in place to confirm that accepted wastes conform to the pre-acceptance analysis and details the qualifications of those

persons undertaking the checks?

Yes

Document reference

QEMOP

Waste rejection procedures: procedures for rejecting wastes that are not permitted or otherwise accepted?

Yes

Document reference

QEMOP

Records: procedures and checks to track wastes that are accepted or rejected from the installation and follow wastes from pre-acceptance enquiry through treatment processes, site storage/treatment to off-site disposal or recovery?

Yes

Document reference

QEMOP

Waste storage

B2.1.10 Please provide a layout plan(s) detailing

the; location, infrastructure, and capacity of waste storage areas or structures.

Document reference

Application Site Report Appendix D1 + A3

the surrounding development highlighting proximity to watercourses, areas of public use/vulnerability to vandalism and other sensitive boundaries

Document reference

Application Site Report Appendix A5

the designated areas and structures for potentially incompatible wastes and raw materials identifying precautions eg. separation, isolation, segregation, bunding, drainage etc.

Document reference

Application Site Report Appendix A6 + A3

B2.1.11 Identify storage structure/storage area, waste hazard properties, physical form maximum quantity and duration in the table below (see sector application form user guide for more information)

Storage facility structure/ storage area by layout plan	Waste hazard properties	Physical form (solid, liquid, sludge)	Maximum storage capacity	Maximum storage duration

Bay 1	**H4/5/6/8/12/14**	**All forms**	**43000Kg**	**6 months**
Bay 2	**H7**	**All forms**	**43000Kg**	**6 months**
Bay 3 to 5	**H4/5/6**	**All forms**	**129000Kg**	**6 months**
Bay6	**H8**	**All forms**	**43000Kg**	**6 months**
Bay 7	**H1/3A/4/5/6/7/8/12**	**All forms**	**4000Kg**	**6 months**
Bay 8	**H2/6**	**All forms**	**43000Kg**	**6 months**
Bay 9	**H6**	**Solid**	**15000Kg**	**6 months**
Bay 10	**H3A&B**	**All forms**	**65000Kg**	**6 months**
Hazardous skip	**H4/5/6**	**Solid**	**40 cu m**	**6 months**
Non-hazardous skip	**N/A**	**Solid**	**40 cu m**	**6 months**

B2.1.12 Are appropriate waste storage procedures or documents that accord fully with section 2.1.3 of SGN 5.06 in place, to identify the following

Location, infrastructure, layout and capacity of waste storage areas

Yes

Document reference

QEMOP

Where further improvements are needed to minimise risks.

Yes

Document reference

QEMOP

B2.1.13 Special Storage Requirements: in the table below identify all the wastes that may require special storage arrangements, and the techniques used to minimise accidents or the risks from the emissions of each waste in accordance with section 2 1.3 of SGN 5.06 or otherwise to protect the enironment

Waste type	Identify the techniques used to minimise the risks of emissions, eg the storage area is covered, fully bunded, with ventilation and/or abatement
All	**QEMOP + Application Site Report Appendices A6 & D1 plus application enclosure 10**

B2.1.14 Emergency Storage: Are procedures and infrastructure in place to accommodate wastes that are

quarantined or awaiting rejection in accordance with section 2.1.3 of SGN 5.06?

Yes

Document reference

QEMOP

B2.1.15 Storage of drummed and containerised wastes: Are drummed and containerised waste stored in accordance with section 2.1.3 of SGN 5.06?

Yes

Document reference

QEMOP plus Application Enclosure 10

B2.1.16 Storage of laboratory smalls: Are procedures in place to ensure the sorting, segregation, bulking, packing and storage of laboratory smalls are undertaken in accordance with section 2.1.3 of SGN 5.06?

Yes

Document reference

QEMOP

B2.1.17 Waste compatibility and segregation: Are procedures, checks and infrastructure in place to ensure that incompatible wastes and raw materials remain segregated at all times in accordance with section 2.1.3 of SGN 5.06?

Yes

Document reference

QEMOP

B2.1.18 Bulk storage: Are procedures and checks in place to ensure bulk storage structures and associated pipework and fittings are constructed, adequately labelled, signed, inspected and maintained and 'fit for purpose' in accordance with section 2.1.3 of SGN 5.06?

No

Provide justification

There is no bulk liquid storage on site

Please submit your bulk storage / pipework signage / labelling and maintenance procedures as part of the application. Document reference

B2.1.19 Bulking and transfer into bulk storage: Are procedures and checks in place to ensure bulking is carried out in accordance with section 2.1.3 of SGN 5.06?

Yes

Document reference

QEMOP

Waste treatment

B2.1.20 Please provide layout plan(s) detailing

the location of each plant identified by a unique reference name.

Document reference

Appliction Site Report Appendix A6 + A3

the surrounding development highlighting proximity to watercourses, areas of public use/vulnerability to vandalism and other sensitive boundaries

Document reference

Application Site Report Appendix A5

B2.1.21 Identify the treatment plant, waste hazard properties, physical form and maximum treatment capacity in the table below (see sector application form user guide for more information)

Treatment plant identified as per layout plan	Waste physical form (solid, liquid, sludge)	Waste hazard properties	Maximum treatment capacity (tonnes per day)
Bulking in bays	**Liquid & solid**	**All permitted**	**50**
Drum crushing	**Solid**	**H4/5/6**	**20**
Drum shredding	**Solid**	**H4/5/6**	**20**

Treatment plant identified as per layout plan	Description of wastes treated by plant	Excluded wastes	Acceptable process contaminants (identify all)	Process limiting concentrations of contaminants
Bulking in bays	**All permitted except those stored or for storage in Bay 7**	**Waste stored or intended for storage in Bay 7**	**N/A**	
Drum crushing	**Metal/plastic drums**	**All others**	**1%**	
drum shredding	**Plastic/metal drums**	**All others**	**1%**	

B2.1.22 Treatment general: please provide diagrams and plans detailing the following

Main plant items where they have environmental relevance, e.g. storage tanks, treatment and abatement plant design

Document Reference(s) (please submit as part of the application)

Application Site Report appendix A3

Process flow diagrams (schematics)

Document Reference(s) (please submit as part of the application)

Process Flow Diagram Application Enclosure 2

Process instrumentation diagrams for systems containing potentially polluting substances

Document Reference(s) (please submit as part of the application)

N/A

B2.1.23 Have you provided a separate document containing a summary description of the activities?

The description should be enough to allow us to understand

- Process description(s) of the activities
- Main plant type, equipment and design parameters (e.g. maximum daily treatment capacity)
- Details of chemical reactions and their reaction kinetics/energy balance
- Waste types to be subjected to the process
- The control system as relevant to the minimisation of emissions, in particular the main reactions and their control
- Comparison with indicative BAT standards in the sector guidance note including a comparison of candidate techniques (H1).

The information should include actual products and typical reactor conditions (e.g. volume, temperatures, pressures, exotherms, catalysts). In addition to descriptions we recommend the use of block diagram(s) of the activities to describe the main process stages and how they link to abatement plant and emission points. Also identify the means whereby materials are transferred from one activity to another. Keep the description as brief as possible, consistent with providing all relevant information.

No

If you have not created a separate document as described above, please give the information required in the following spaces. Repeat the set of answers for each process.

Process name and description

Transfer and bulking of hazardous and non-hazardous wastes and crushing and shredding of drums

Main plant type, equipment and design parameters (e.g. maximum daily treatment capacity)

Storage bays and skips; drum crusher (10 tonnes per day); drum shredder (10 tonnes per day) plus fork lift trucks

Details of chemical reactions and their reaction kinetics/energy balance

None

Control system philosophy and how the control system incorporates environmental monitoring information

None

Summary of operating and maintenance procedures

QEMOP

Venting and emergency relief provisions

N/A

Protection provided during abnormal operating conditions e.g. runaway reactions, unexpected releases

QEMOP

Document references for any relevant drawings, diagrams or flow diagrams

QEMOP + Application Site Report Appendix A6

Comparison with indicative BAT standards in S5.06

BAT requires collection monitoring and abatement on point source emitting activites - tanker bulking, drum crusher and drum shredder. The site includes active collection, monitoring and abatement of emissions from these to activities when they are carried out.

B2.1.24 Physico/chemical treatment processes: are procedures in place for process control and monitoring of physico/chemical reactions in accordance with section 2.1.4 in SGN 5.06?

No

Provide justification

N/A

Please submit your process control and monitoring of physical/chemical reactions procedures as part of the application. Document reference

Waste properties: are procedures and checks in place to ensure that incompatible wastes and/or prohibited wastes are not subject to non-permitted or inappropriate treatment operations?

Yes

Document reference

QEMOPS

B2.2 Emissions control and abatement

Point source emissions to air

For sector guidance note, click here.

We do not wish to know about every conceivable minor emission point and where you are confident that a release could never lead to an environmental incident or complaint (for example, we do not wish to know about blow-down vents on condensate lines), there is no need to include it.

B2.2.1 Please list all emission points

If you have not used H1, provide the equivalent information in the following table. Add a row for each emission point

If you have used the H1 Database click the Import data button.

Release point reference	Source	Location of emission point	Techniques used to minimise emissions
A1	**crushing & shredding of drums with abatement of the exhaust air**	**Stack**	**Proposed see Application enclosure 6**

B2.2.2 Diagrams

If you have not provided this information on the diagram of main plant items (see Site maps and reports), provide a simple process flow block diagram(s) to show

- the vapour and gas streams connect to air abatement plant
- the environmentally relevant controls and monitoring.

Label the emission/release points e.g. A1 etc. Emission/release points should also be shown on your site plan.

Reference number for diagram

Application Enclosure 6

B2.2.3 Please list your emission point abatement equipment

For each emission point, list the abatement equipment in use or proposed. This should include venting and emergency relief points or provisions where a hazardous substance may be released.

Process stage or release point	Emission type and pollutant	Abatement equipment identifier	Proposed or existing
Bulking to tanker	**VOC'S**	**Abatement Plant**	**Proposed**
Drum crushing	**VOC's**	**Abatement Plant**	**Proposed**
Drum shredding	**VOC's**	**Abatement plant**	**Proposed**

Comment or further information

The abatement equipment to be used is proposed and its use must be agreed with the Agency - see Application Enclosure 6

B2.2.4 Please give details of abatement for specific emission points

For each item of abatement equipment (fabric filter, activated carbon or wet scrubbers etc) complete the following sections and give details appropriate to the level of environmental risk from that emission point.

Please only answer the questions that relate to the abatement option that you use or intend to use.

Abatement equipment

What is this equipment?

See Application Enclosure 6

Process stage or release point

Where is this equipment?

See Application Enclosure 6

Identifier

Unique identifier of this equipment

Abatement Equipment

Age

How old is the equipment?

New

Key functional details

Please tell about the the specification, abatement performance and typical loading of this equipment

See Application Enclosure 6

How is protection provided during start-up, shut down and momentary stoppages?

Details

See Application Enclosure 6

Is there a bypass – under what circumstances can it operate?

Details

See Application Enclosure 6

Detail any significant differences between the current duty and design duty and the reason for them. Also comment on whether these differences have an adverse affect on the environmental performance

Details

The processes within the site that require collection, monitoring and abatement of emissions will only be undertaken when the equipment shown in the abatement proposals (Application Enclosure 6), or alternative approved equipment, is agreed and in place.

Are there any particular operational problems with these units?

No

B2.2.5 Given the abatement described above and the principles in section 2.2.1 of the SGN, is a review of abatement appropriate?

No

Why not?

New equipment

B2.2.6 Please give details of your boiler or combustion plant. Is the plant thermal output les than 20MW?

Yes

Main fuel type(s)

No boiler

Standby fuel type

% operation on standby

Has the lowest sulphur fuel available been selected?

No

Provide the justification or date by which this will be in place

N/A no boiler

Are low NOx burners used?

No

Provide the justification or date by which this will be in place

N/A no boiler

Chimney height (metres)

N/A

Does the chimney height comply with the guidance in H1 (Calculation of chimney heights)?

No

Electrical output (MW)

Thermal output (steam or hot water) (MW)

Thermal input (MW)

Comment or further information

N/A

B2.2.7 Please give details of your boiler plant procedures

Is combustion efficiency tested regularly (at least annually) to ensure optimum combustion conditions?

No

Provide the justification or date by which this will be in place

No boiler

Is the plant operated to give a smoke colour less than or equal to shade number 1 on the Ringelmann chart (except during periods of start up)?

No

Provide the justification or date by which this will be in place

No boiler

Comment or further information

Emission limit values for emissions to air

The reference conditions applicable to these levels are: temperature 273 K, pressure 101.3 kPa (atmosphere), no correction for water vapour or oxygen.

Where the term 'expressed as' is used, a correction should be carried out using the ratio of the atomic or molecular weights of the substances as appropriate.

All releases should be essentially colourless, free from persistent trailing mist or fume and free from droplets.

Releases from the installation should not give rise to an offensive odour noticeable outside the site where the process is carried on.

The following data may be entered via the H1 database and imported using the Import data button

B2.2.8 Please give annual mass limits for emissions to air

Substance	Annual mass emissions	Proposed limit
Toluene	**873 Kg/yr**	**1000 Kg/yr**

B2.2.9 Please give benchmark data for emissions from each emission point

Emission point	Substance	Normal concentration	Benchmark concentration	Proposed limit
A1	**Toluene**	**20 mg/cubic metre**	**20 mg/cubic metre**	**20 mg/ cubic metre**

Comment or further information

Point source emissions to surface water and sewer

For sector guidance note click here

Diagrams

Check that you have supplied a simple process flow block diagram(s) to show how the main plant connects to wastewater treatment plant. Show

- the environmentally relevant controls and
- monitoring.

Label the release points to water – W1 etc, to sewer – S1 etc.

Demonstrate BAT compliance with the SGN.

B2.2.10 Location of emission points

Discharge point	references: label those to water – W1 etc, those to sewer – S1	Name of receiving water	Map reference of discharge point
Agricultural land with a technical connection to the installation			
Non tidal river or stream (includes dry river or stream bed)			
Tidal river or stream			
Canal			
Land			
Borehole/well see also Point source emissions to groundwater			
Coastal waters/estuary			
Lake, loch or pond			
Culverted river, stream or canal			
Sewer			

B2.2.11 How much effluent do you produce?

$Maximum\ flow\ m^3/day$

$Average\ flow\ m^3/day$

Will the discharge be continuous?

What are the average and maximum effluent temperatures?

$°C$

What is the maximum and minimum pH of the effluent?

pH

B2.2.12 Please give details of your procedures for emissions to surface water and sewer

Describe the treatment systems for each source of wastewater, whether on site or in a third party or a sewage treatment plant.

Add a row for each wastewater source.

Source of wastewater	Minimisation methods	Treatment methods

Are buffer storage or balancing tanks provided to release stronger (for example separator desludge), or highly coloured or alkaline wastewaters?

Is primary treatment employed (on or off site)?

Is secondary treatment employed (on or off site)?

Is tertiary treatment employed (on or off site)?

Comment or further information

B2.2.13 Improvements

Are there any improvements which should be taken to reduce emissions to water or investigations needed to assess the most appropriate method of achieving the benchmark release levels given in Section 3 of the guidance?

Comment or further information

Emission limit values for emissions to water and sewer

The following data should be entered via the H1 database and imported using the Import data buttons

B2.2.14 Please give annual mass limits for emissions to water and sewer

Substance Annual mass emissions Proposed limit

B2.2.15 Please give benchmark data for emissions from each emission point

Emission point Substance Normal concentration Benchmark concentration Proposed limit

B2.2.16 Are there any longer-term studies, which need to be carried out to establish the environmental fate and impact of the emissions?

B2.2.17 The treated effluent – summarise any assessment work done or proposed

Account for the presence of substances listed under Schedule 5 (Pollutants – Water) to Regulation 12(2) of the PPC Regulations 2000 to be accounted for here along with biocides, corrosion inhibitors, flocculants or similar additives.

B2.2.18 Where any studies above identified harmful substances or levels of residual toxicity, summarise any available information on the causes of the toxicity and any techniques proposed to reduce the potential impacts

B2.2.19 Where discharge is direct to controlled water, list alternative methods that can be taken to reduce BOD and justify why you are not doing them or give timescales for proposed improvements

B2.2.20 Indicative benchmarks for emissions to water

Parameter	Installation performance	Benchmark mg/l	If the installation benchmark is higher than the maximum figure, either justify here or give date in the Proposed improvement programme when you will comply
BOD (new plant)		10 – 20	
BOD (existing plant)		15 – 20	
Suspended solids		25	
P		2	

B2.2.21 Is effluent treated off-site at a sewage treatment works?

Where effluent is treated off-site at a sewage treatment works

How effluent is treated is the operator's commercial decision. The responsibility remains with the operator to

demonstrate that the chosen route is BAT, whether it is treated on-site or a third party is paid to treat it on their behalf. Operators cannot wash their hands of the effluent just by paying someone else to treat it. Operators have a much better understanding of the nature of the effluent and what can be done to minimise impact than does the sewage undertaker. Note also that dilution is not a factor which can be claimed as a contribution to minimising pollution.

You must demonstrate that:

- the treatment provided at the sewage treatment works (STW) is as good as would be achieved if the emission were treated on-site, based on reduction of load (not concentration) of each substance to the receiving water. In other words, for each of the following, consider if the STW achieves the same reductions as installation on-site of BAT plant for treating these substances - and justify where it will not. This can usually be answered generically. E.g. if the indicative BAT would be settlement followed by aerobic digestion, and the STW has both these steps (noting that an STW plant will normally have a greater retention time and sludge age than an on-site plant) it can be concluded that the STW is potentially at least as good as a dedicated plant. You may need to discuss these issues with your effluent treatment provider.
- the probability of sewer bypass, via storm/emergency overflows or at intermediate sewage pumping stations, is acceptably low (you may need to discuss this with your sewerage operator).

B2.2.22 Sewage treatment plant effectiveness

Parameter	How will these be removed by the STW
Phosphates (P as Phosphorous)	
Nitrates (N as Nitrogen)	
Salts and other inorganics	
BOD	
COD	
Biocides	
Ammonia	
Detergents	
Chlorinated compounds	
Metals or metal salts	
List I and List II substances	Add a row for each parameter

Comment or further information

B2.2.23 Sewage treatment plant bypass and protection

Is there a pumping station between the installation and the STW?

What events could cause a release which could aversely effect the STW and what actions (e.g. holding tanks, monitoring, batch release etc) are taken to prevent this.

Response

Comment or further information

B2.2.24 Can any of the stages be bypassed?

Comment or further information

Point source emissions to groundwater

For guidance click here

Groundwater

This section is designed as a guide to help you in the provision of the required information. However, if you believe you may emit List I or List II substances to groundwater, directly or indirectly, you are advised to discuss the requirements with your local Agency officer.

Please tell us about your investigation of the potential effect on groundwater of on-site disposal activities or discharges to groundwater. Note that we may ask for extra information.

B2.2.25 Supply a map of the proposed disposal area

Document (map) reference, or cross reference to your site report plan which may cover this.

B2.2.26 What is the underlying

geology?

hydrogeology?

soil type? Include the depth of saturated zone and quality of groundwater (if already covered in your site report, then cross refer)

B2.2.27 How close is the site to

any surface waters? Describe the relationship between ground and surface waters

any abstraction points?

B2.2.28 Please give annual mass limits for emissions to groundwater

Substance	Annual mass emissions	Proposed limit

B2.2.29 Please give benchmark data for emissions from each emission point

Emission point	Substance	Normal concentration	Benchmark concentration	Proposed limit

B2.2.30 What is the composition and volume of waste to be disposed of?

Substance	List I or II?	Composition details	Volume/time (rate of disposal)

B2.2.31 What monitoring of ground water quality is/will be carried out?

Substances monitored	Location	Frequency (e.g. daily, monthly)

B2.2.32 What precautions are taken to prevent the pollution of groundwater?

Provide details of techniques/procedures that are in place

Fugitive emissions to air

For guidance click here

B2.2.33 Potential fugitive emissions to air

Add rows or delete the examples/prompts as appropriate

Fugitives are any emission not coming from a source in Point source emissions to air.

You are not required to list every flange, valve and pump, etc. Group them in the most sensible way to allow you to make the best estimate of the quantities emitted and to describe the methods of control and improvement.

Potential fugitive source	What are the potential fugitive emissions?	Are there actual emissions Y/N	Quantify if possible (mass or% of total emissions from installation that is fugitive)	What techniques are used to prevent emissions?
Manual bulking of liquid wastes into larger containers	**VOC's**	Yes	**100%**	**Container lids kept on when not in use**
Storage of empty containers after bulkling and shredding/crushing	**VOC's**	Yes	**100%**	**Container lids kept on, storage skips sheeted**

Comment or further information

See abatement proposal Application Enclosure 6

Improvements

B2.2.34 Are there any improvements or investigations needed to further reduce fugitive emissions to air?

Yes

Comment or further information

Possible use of LEV to capture emissions from manual bulking activities.

Fugitive emissions to surface water, sewer and groundwater

For guidance click here

B2.2.35 Potential fugitive emissions to water

Identify any structures, activities, plant, pipework etc. which, due to leakage, run off, failure etc could lead to pollution of the ground, groundwater or watercourses.

You are not required to list every flange, valve and pump, etc. Group them in the most sensible way to allow you to make the best estimate of the quantities emitted and to describe the methods of control and improvement.

(add rows or delete the examples/prompts below as appropriate)

Potential fugitive source	What are the potential fugitive emissions?	Are there actual emissions Y/N	Quantify if possible mass or% of total from installation	What techniques are used to prevent emissions?
Waste off-	**All wastes**	No	**100%**	**Impervious**

loading/loading, storage and bulking activities	**surfaces, bunding and tertiary containment**

Improvements

B2.2.36 Are there any improvements or investigations needed to further reduce fugitive emissions to water?

No

Subsurface structures

B2.2.37 Provide site plan(s) which identify the routing of all installation drains and subsurface pipework, subsurface sumps and storage vessels.

Document reference

Application Site Report Appendix A4

B2.2.38 For all subsurface pipework, sumps and storage vessels confirm that one of the following options is in place: secondary containment; continuous leakage detection, or an inspection and maintenance programme (e.g. pressure tests, leak tests, material thickness checks or CCTV) which are completed for all such equipment within the last 3 years and are repeated at least every 3 years.

Yes

Provide details or reference to a separate document

Application Site Report Appendices D2, E2

B2.2.39 Are manholes colour-coded?

Yes

Surfacing

B2.2.40 Is a design quality assurance and inspection and maintenance programme of impervious surfaces and containment kerbs in place?

The programme must consider design aspects typically including:

- capacities
- thicknesses
- falls
- material
- permeability
- strength/reinforcement
- resistance to chemical attack
- inspection and maintenance procedures, and
- quality assurance of construction.

Yes

Does this programme apply to all areas?

Yes

B2.2.41 Potential pollution areas

Area	an impervious surface	spill containment kerbs	sealed construction joints	bunding	connection to a sealed drainage system
Waste storage bays	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Waste reception and treatment areas	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**

Are there any special reasons why you consider the risk of pollution sufficiently low to justify no action?

Site purpose built for hazardous waste storage and treatment. Storage area construction shown in Application Enclosure 10

For each tank containing liquids whose spillage could be harmful to the environment confirm that it is bunded and that the bunding complies with each of the requirements listed below.

- Be impermeable and resistant to the stored materials
- Have no outlet (i.e. no drains or taps) and drain to a blind collection point
- Have pipework routed within bunded areas with no penetration of contained surfaces
- Be designed to catch leaks from tanks or fittings
- Have a capacity which is the greater of 110% of the largest tank or 25% of the total tankage
- Be subject to regular visual inspection and any contents pumped out or otherwise removed under manual control after checking for contamination
- Where not frequently inspected, be fitted with a high-level probe and an alarm as appropriate
- Have fill points within the bund where possible or otherwise provide adequate containment
- Have a routine programmed inspection of bunds, (normally visual but extending to water testing where structural integrity is in doubt).

Comment or further information

No bulk liquid storage tanks on site.

Odour

For guidance click here

The level of detail given should correspond to the risk of causing annoyance at sensitive receptors. Where receptors are remote and the risk associated with environmental impact is therefore low, the information that needs to be provided relating to sensitive receptors will be minimal. However, BAT should be used to reduce odour as far as the balance of costs and benefits will allow.

B2.2.42 Receptors

Provide appropriate scaled maps and site plans to show relative locations of receptors, sources and monitoring points. In some cases the process or site boundary may have been used as a surrogate location for assessing the impact on sensitive receptors, and limits or conditions may have been set relative to the boundary. Where this is the case, they should be included.

It is **not** acceptable to include copies of reports **without** supporting explanation or overview as above.

B2.2.43 Odour sources

(including actions taken to prevent and/or minimise)

Where emissions have already been described as “emissions to air” elsewhere in the application but they also have odorous properties they should be also mentioned here. It is sufficient to name the material and/or odour here and provide a cross-reference to detail elsewhere in the application.

Potential odour sources should be given, as well as actual. For example, an effluent treatment plant may not be detectable beyond the boundary under normal conditions, but if anaerobic conditions develop then it may become odorous.

Add a section for each relevant source

Are there known odour problems from the installation?

Impact assessment

B2.2.44 Do you need to carry out an environmental impact assessment for odour?

Actions to be taken in the event of abnormal operating conditions

Events outside your control could lead to odorous situations (e.g. extreme weather conditions or power failure where it is not BAT to provide standby). Describe the actions you propose to minimise the impact of such events (e.g. shutting down as quickly as possible or changing operating parameters). It should not include failures caused by human error, poor maintenance, predictable operational situations or weather conditions that are normal variants of local weather.

Add a section for each source/release point which may cause problems in abnormal circumstances

In some circumstances the Permit may require you to maintain an odour management statement, summarising the actions to be taken to minimise odour under both normal and abnormal operating conditions. It also defines who is responsible for the actions described. A template is given in the separate document “Odour Management Statement” (which is on this CD).

B2.3 Management

For guidance click here

You can import some of the information required for this section from the EPOPRA spreadsheet by clicking the Import data button.

B2.3.1 Provide a management organogram with your application (give posts, not names).

Give the reference of the attached document here

Application enclosure 3

Management system details

B2.3.2 Operations and maintenance systems

Do you have documented procedures to control operations that may have an adverse impact on the environment?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Is there a defined procedure for identifying, reviewing and prioritising items of plant for which a preventative maintenance regime is appropriate?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Do you have documented procedures for monitoring emissions or impacts?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Does a preventative maintenance programme exist covering all plant, whose failure could lead to impact on the environment, including regular inspection of major ‘non productive’ items such as tanks, pipework, retaining walls, bunds ducts and filters?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Does the maintenance system include auditing of performance against requirements arising from the above and reporting the result of audits to top management?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Tehnical Director

B2.3.3 Competence and training

Has an assessment of training needs been carried out which identifies the posts for which specific environmental awareness training is needed and the scope and level of such training in accordance with section 2.3 of the SGN?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technicl Director

Are training systems in place for all relevant staff which cover the following:

- awareness of the regulatory implications of the permit for the activity and staff activities
- awareness of all potential environmental effects from operation under normal and abnormal circumstances
- awareness of the need to report deviation from the permit
- prevention of accidental emissions and action to be taken if they occur.

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical director

Are the skills and competencies necessary for key posts documented and are records of training needs and training received for these posts maintained?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Do the key posts, include contractors and those purchasing equipment and materials?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Are the potential environmental risks posed by the work of contractors assessed and instructions provided to contractors about protecting the environment while working on site?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Do industry standards or codes of practice for training exist (e.g. WAMITAB)?

Yes

What are they and to what degree do you conform with these

WAMITAB statutory & non-statutory NVQ's

Appropriate CoTC holder in management control of the site.

Identify the competency framework document for key posts

Document reference

QEMOP

Outline the minimum qualifications and training of the following posts:

Sales staff

QEMOP

Pre-acceptance sampling staff

QEMOP

Waste reception staff

QEMOP

Treatment staff

QEMOP

B2.3.4 Accidents/incidents/non-compliance

Do you have an accident plan?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Does the plan identify the likelihood and consequence of accidents?

Yes

Document reference

QEMOP

Does the plan identify actions to prevent accidents and mitigate any consequences?

Yes

Document reference

QEMOP

Do you have written procedures for handling, investigating, communicating and reporting actual or potential non-compliance with operating procedures or emission limits?

Yes

Document reference

QEMOP

Post or group responsible for this programme

0

Do you have written procedures for handling, investigating, communicating and reporting environmental complaints?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

Do you have written procedures for investigating incidents, (and near misses) including identifying suitable corrective action and following up implementation of that action?

Yes

Document reference

QEMOP

Post or group responsible for this programme

Technical Director

B2.3.5 Organisation

Do you operate an externally audited environmental management system?

Yes

Document reference

QEMP

Post or group responsible for this programme

Technical Director

How is your environmental management system externally assessed?

Certified to ISO 14001

Are there audits, at least annually, to check that all activities are being carried out in conformity with the above requirements?

Yes

Name the auditing body

NQA

Are there reports annually on environmental performance, objectives and targets, and future planned improvements?

Yes

Does your company produce a public environmental statement?

No

Comment or further information

B2.3.6 Managing documentation and records

Policies

Where kept

Site Office

How identified

Policies

Who responsible

Technical Director

Responsibilities

Where kept

Site Office

How identified

QEMOP

Who responsible

Technicl Director

Targets

Where kept

Site Office

How identified

QEMOP

Who responsible

Technical Director

Maintenance records

Where kept

Site Office

How identified

Maintenance Records

Who responsible

Technical Director

Procedures

Where kept

Site Office

How identified

QEMOP

Who responsible

Technical Director

Monitoring records

Where kept

Site Office

How identified

Monitoring Records

Who responsible

Technical Director

Waste records, including waste inventory, storage arrangements and length of time the waste is on site

Where kept

Site Office

How identified

Waste Records

Who responsible

Technical Director

Results of audits

Where kept

Site office

How identified

Audit reports

Who responsible

Technical Director

Results of reviews

Where kept

Site Office

How identified

Reviews

Who responsible

Technical Director

Complaints and incident records

Where kept

Site Office

How identified

Complaint and incident records

Who responsible

Technical Director

Training records

Where kept

Site Office

How identified

Training Records

Who responsible

Technical Director

Explain what targets you will be aiming at for improving the performance figures

Give details

Increase recycling percentages.

Investigate extending proposed abatement system to include manual bulking operations.

B2.4 Raw materials

Raw materials selection

For guidance click here

We do not need a comprehensive list of **all** ingredients and raw materials. Refer to, Raw materials, in the sector guidance for more information.

Use this table to supply a list of the principal materials used, and any others that have the potential for significant environmental impact. These will be the ancillary materials used in your process, for example fuels, cleaning chemicals and effluent treatment chemicals.

As an aid to judging what materials should be included here, we are looking only for the major risks, not the detail which will be on your own inventory. Thus only include those substances with the largest usage - say, up to about 80% of the total materials used - plus any others which may, by virtue of their hazardous nature pose an equivalent threat despite being released in smaller quantities. For installations with variable material usage give the latest figures available and describe the degree of variability below.

B2.4.1 Raw materials selection

Raw material/ function	Chemical nature/ composition where appropriate	Amount used per year	Fate: percentage to each of product, water, sewer, waste/land, groundwater, air	Environmental impact where known (e.g. degradability, bioaccumulation potential, toxicity to relevant species)	Is there a suitable alternative for those with significant impact potential. If not being used, give reasons why not.
All incoming wastes	**See application enclosure 9**	**24,900 tonnes**	**34% to Landfill, 21% to further treatment, 45% to recovery**		**No**

B2.4.2 Indicate the possible presence of pesticides or other List I or List II substances in any of the raw materials.

Description

See application enclosure 9.

All such materials are securely package and remain so in secure storage (see application enclosure 10)

B2.4.3 Improvements

Is there adequate knowledge to address the issues raised in the last 3 columns of Raw materials selection?

Yes

Are there any substitutions planned?

No

Comment or further information

Waste minimisation

For guidance click here

B2.4.4 Have you carried out a waste minimisation audit?

No

Date by which one will be carried out, noting that the regulator will expect this to appear early on in the programme of works.

Not appropriate

Identify below from your knowledge of the plant, the main opportunities for waste minimisation and add any items proposed to be carried out to the Proposed improvement programme

Comment or further information

Water use

For guidance click here

Water use should be minimised within the BAT criteria to prevent or reduce emissions commensurate with the prudent use of water as a natural resource. The constraints (for example, hygiene issues) on reducing water use beyond a certain level should be identified by each operator, as this is usually installation-specific.

B2.4.5 Please give your installation's overall water consumption

Source e.g. river, town water Amount (m^3/yr)

Comment or further information

B2.4.6 Water efficiency audit

Has a water efficiency audit been carried out?

How often will audits be performed?

Is water consumption monitored by monitoring and targeting software from sub meters on a weekly basis?

B2.4.7 Give a breakdown of your water consumption

Use	Consumption	Monitoring

Department or activity within the installation	Uses within the specific department of activity	Water quality requirements	Amount (m^3/yr)	% of total

The reasons for not monitoring water consumption across the activities within the installation should be explained here

Comment or further information

If you do not currently comply provide a date by which you will in the Proposed improvement programme.

B2.4.8 Current water use and improvement targets

See 'Typical benchmarks' below.

Add a row for each major activity or process

Process	Your current installation performance litre water/litre product	Water efficiency objective(s) for this installation

Comment or further information

B2.4.9 Give details of potential sources of recycled water of suitable quality

BAT includes using recycled water for:-

- cleaning of plant, process lines, equipment and process areas
- cleaning of plant (power hoses)
- water seals and pump seals
- boiler make up
- Cleaning in place (CIP) pre-rinse
- vehicle washing

Add a row for each potential source

Sources of recycled water of suitable quality	% recycled in process	Justify why the source is not used as a recycled water source and state date for improvements

Comment or further information

B2.4.10 Give details of potential uses for recycled water of suitable quality

(Potential) uses for recycled water of suitable quality	Identify potential reuse opportunities	% recycled in process	Justify why the source is not used as a recycled water source and state date for improvements

Comment or further information

B2.5 Waste handling

This section is covered in In-process controls

B2.6 Waste recovery or disposal

This section is covered in In-process controls

B2.7 Energy

Basic energy requirements (1)

For guidance click here

You must complete this section whether or not you have a Climate Change Agreement (CCA) or Direct Participant Agreement (DPA).

Note: Annual energy consumption may have been provided in the inventory in the H1 draft software tool.

B2.7.1 Please give supplementary information on energy consumption which show how energy is consumed within the activities in the permit

Type of information (table, diagram, energy balance etc)	Document reference
Diagram	**Application enclosure 2**

B2.7.2 Overall specific energy consumption (SEC)

The H1 software tool will calculate your overall SEC. Use this table only if you need to provide a further breakdown of the operations into separate units.

Add a row for each activity

Activity	SEC (specify units as appropriate)	Description of the basis of SECThis should be based on primary energy consumption for the products or raw material inputs which most closely match the main purpose or production capacity of the installation.	Benchmark comparison (compare SEC against any benchmarks provided in Sector Guidance Notes).

Basic energy requirements (2)

For guidance click here

You must complete this section whether or not you have a CCA or DPA.

We ask for information about basic energy efficient operating and maintenance measures in this section.

Confirm that you have a documented system in place (refer to guidance note H2 for details) and give a document reference so that it can be inspected/audited on site.

B2.7.3 Are documented operating maintenance and housekeeping measures in place for the following (where relevant):

air conditioning, process refrigeration and cooling systems (leaks, seals, temperature control, evaporator/condenser maintenance);

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Operation of motors and drives

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Compressed gas systems (leaks, procedures for use)

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Steam distribution systems (leaks, traps, insulation)

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Space heating and hot water systems

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Lubrication to avoid high friction losses

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Boiler maintenance e.g. optimising excess air

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

No boiler

Other maintenance to the activities within the installation

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Basic energy efficient physical measures

In this section confirm that you comply with each of the requirements (refer to guidance note H2 for details).

B2.7.4 Confirm that the following physical measures are in place to avoid excessive heating or cooling losses for the following (where relevant)

Sufficient insulation of steam systems, heated vessels and pipework

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Provision of sealing and containment methods to maintain temperature

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these emploed

Simple sensors and timers are fitted to prevent unnecessary discharge of heated liquids and gases

No

Further information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Other appropriate measures

No

Further Information (reference documentation, date measures will be in place or reason why not relevant)

None of these employed

Basic energy-efficient building services measures

In this section confirm that you comply with each of the requirements (refer to guidance note H2 for details).

B2.7.5 Confirm that the following building service measures are in place for the following (where relevant):

Energy efficient lighting is in place

Yes

Energy efficient climate control systems are in place

including

- space heating
- hot water
- temperature control
- ventilation
- draught proofing.

Yes

Energy efficiency plan

An energy efficiency plan is provided below, which identifies and appraises all energy efficiency techniques applicable to the activities in the permit

All applicants should list any potential energy efficiency techniques that have not yet been implemented. This includes those listed under Basic energy requirements (1) AND in 'Further energy efficiency requirements .

Give the CO2 savings achievable by that technique over its lifetime.

In addition to the above, applicants that do not have a climate change or trading agreement should give

- the equivalent annual costs of implementation of the technique
- the costs per tonne of CO2 saved and
- the priority for implementation.

Include details of any which have an annualised cost of less than £0/t of CO2 or justify not doing so in the Proposed improvement programme.

Refer to Energy Efficiency Guidance Note for cost appraisal methodology.

Where other appraisal methodologies have been used, state the method, and provide evidence that appropriate discount rates, asset life and expenditure (£/t) criteria have been employed.

B2.7.6 Tell us about your energy efficiency plan

Add a section for each energy efficiency measure. All applicants need to answer questions about CO_2 savings. If you do not have a climate change agreement or trading agreement you should also answer the questions about cost and implementation dates.

Further energy efficiency requirements

For guidance click here

B2.7.7 Further techniques

Good insulation (building, pipework, drying room and process plant)

Yes

Plant layout to reduce pumping distances.

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Optimised efficiency measures for combustion plant e.g. air/feedwater preheating, excess air etc.

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Minimisation of water use.

Yes

Product scheduling to maximise continuous processing and reduce batch processing

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Automatic flow valves

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Condensate return valves

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Variable speed drives on air compressors

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Shrink wrap tunnels replaced with robot packers

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Compressor plant on bottle plant used for space heating in winter

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Air blowing lines for the transportation of empty plastic bottles turned off when production not taking place

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Real time monitoring of steam, water, electricity and compressed air demand by unit process

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicble

Phase optimisation of electronic control motors

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Recovering heat from spent cooling water

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

B2.7.8 Do you use any pasteurisation and/or evaporation process(es)?

No

Efficient energy-supply techniques

For each technique, please tell us if it is currently in use at the installation.

B2.7.9 Energy supply techniques

Use of CHP

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Recovery of energy from waste

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

Use of less polluting fuels

No

Further information (reference documentation, date measures will be in place) or reason why not relevant

Not applicable

B2.8 Accidents

For guidance click here

'Accidents' in this context includes any abnormal operating situation leading to increased emissions e.g. breakdown of the abatement plant.

COMAH

B2.8.1 Are you a COMAH top tier site?

No

Are you a COMAH lower tier site?

No

Accident management plan (note also your response in Section 2.3 which partly duplicates this answer)

Using the indicative BAT standards as a checklist, complete this section for any event which could have significant environmental consequences.

Add a section for each accident or abnormal release scenario

You should consider

- process design alarms, trips and other control aspects to avoid overfills of vessels and spillages from process units
- crash barriers to protect liquid storage areas from vehicle strike
- catchpots to capture any spillage and stop it entering the drainage system
- building containment (for example surface lips in doorways) to contain any spillage
- flood protection, and flood action plan
- checking composition of sump contents (e.g. bund sump) before treatment or disposal
- sumps with a high-level alarm or sensor; sump levels should be kept to a minimum at all times
- level monitors in bulk liquid storage vessels to avoid using high level alarms as the primary method of level control
- security of electrical and water supplies
- guidance to staff on how each accident scenario should be managed
- see also Management
- communication routes with relevant authorities and emergency services
- oil spillage equipment, isolation of drains, alerting relevant authorities and evacuation procedures
- containment of firewater and spillages.

B2.8.2 Do you have an accident management plan?

Yes

Document reference

QEMOP

Does it cover abnormal operating situations as well as accidents?

Yes

Further information

1. Receipt of leaking containers.

2. Failure of abatement system

Accident procedures and assessments

Complete this section if you do not yet have a comprehensive accident plan.

B2.8.3 Do you maintain an inventory of location and quantity of wastes in accordance with Section 2.1.2 and Section 2.8 of SGN 5.06 and other substances, present or likely to be present, which could have environmental consequences if they escape?

B2.8.4 Is the installation in a floodplain?

B2.8.5 Are roles and responsibilities of personnel involved in accident management identified?

B2.8.6 Is guidance available on how each accident scenario should be managed, for example, containment or dispersion, to extinguish fires or let them burn

B2.8.7 Are procedures in place to avoid incidents occurring as a result of poor communication among operations staff during shift changes and maintenance or other engineering work?

B2.8.8 Are safe shutdown procedures in place?

B2.8.9 Has an assessment of firewater hazards been carried out (see guidance) and the necessary measures put in place?

Further information

Accident or abnormal release scenario

Briefly describe the scenario

As 1. above

As 2. above

Likelihood of occurrence

1. & 2. infrequent

Consequences of occurrence

1. Requirement for containment, recontainersing and cleaning.

2. Possible minor release to atmosphere of unabated VOC's

Actions taken or proposed to minimise the chances of it happening

1. See QEMOP

2. See abatement proposals - monitoring, maintenance and interlock controls.

Actions planned if the event does occur

1. See QEMOP

2. See abatement proposal - cease activities requireing abatement until system fully operational.

Which of the above scenarios do you consider poses the most critical risks to the environment?

2. Failure of abatement system

B2.8.10 Other techniques

Comment or further information

B2.9 Noise and vibration

For guidance click here

The level of detail given should reflect the risk of causing annoyance at sensitive receptors. Where receptors are remote and the risk is therefore low, the information required will be minimal. Information about noise sources will still be required and BAT should be used to reduce noise as far as the balance of costs and benefits will allow. See Guidance note H3, Parts 1 and 2 for more information and level of detail required.

Detailed responses

B2.9.1 Receptors

Scaled maps and site plans should be provided as appropriate to show relative locations of receptors, sources

and monitoring points.

Add a section for details of each receptor

What is the sound level at the identified receptor(s) when the plant/source(s) is operating?

Definitions are given in Appendix 2 of H3, Part 2.

dB

Have any sound level limits or other condition(s) been applied?

Conditions/limits imposed which relate to sensitive receptors or to other locations.

Include any relevant planning conditions imposed by the Local Authority.

Details

B2.9.2 Filtering out insignificant sources

Provide a brief overview of sources whose impact is insignificant. This can be determined by using the environmental impact assessment (H1) software tool, noise and vibration section, or by using a common sense qualitative approach when the low level of risk is immediately apparent.

Add a section for each source

B2.9.3 Identify each significant source of noise and/or vibration

Information about individual sources and emissions

Add a section for each source, do not include sources already listed as 'insignificant' in the previous section.

List each source considered to be significant – by process or activity if they can be conveniently sub-divided in this way.

Mobile sources should also be identified

Any other relevant information should be given or referenced here, e.g. non-installation sources, on or off site

Environmental noise measurement surveys

B2.9.4 Have any surveys or noise measurements been carried out?

Details of any surveys

B2.9.5 Maintenance

Do your maintenance procedures specifically identify when maintenance is needed to minimise noise emissions?

Do operating procedures specifically identify actions which are needed to minimise noise emissions?

Supplementary information required for complex and/or high risk installations

This information should only be submitted only where it has been identified in discussions with the regulator. It may also be useful to any operator who has noise problems or potential to cause noise and/or vibration-related annoyance in assisting to direct or prioritise activities. Refer to Guidance Note H3 – Part 2: "Noise Assessment and Control", Appendix 4 for additional guidance.

Add a section for each source

B2.9.7 Explain how you minimise the potential for noise nuisance from the following

Air compressors and refrigeration condensers

Vehicle movement, especially internal load carriers such as fork lift trucks

Any other relevant information should be given or referenced here;

B2.10 Monitoring

Describe the proposed measures for monitoring emissions and the environment. Refer to the Guidance for standards and more information. It is recommended that you discuss these requirements with your regulator.

Emissions monitoring

For guidance click here

Monitoring and reporting of emissions to controlled waters

In response to the question Please give benchmark data for emissions from each emission point you have identified the main chemical constituents of the emissions under both normal operating conditions and the effect of possible emergency conditions. In this section we require further information on how you monitor the pollutants in these emissions. You must provide information for

- flow rate
- pH

Monitoring for other pollutants is dependant on the process and the pollutants you have identified in response to the question Please give benchmark data for emissions from each emission point

For each parameter, give monitoring details

B2.10.1 Flow rate

Emission point

NONE

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.2 pH

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.3 Temperature

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.4 Total suspended solids (TSS)

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.5 COD/BOD

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.6 Pesticides

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.7 Colour

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.8 Other parameters

Monitoring and reporting of emissions to sewer

In response to the question Please give benchmark data for emissions from each emission point you have identified the main chemical constituents of the emissions under both normal operating conditions and the effect of possible emergency conditions. In this section we require further information on how you monitor the pollutants in these emissions. You must provide information for

- flow rate
- pH

Monitoring for other pollutants is dependant on the process and the pollutants you have identified in response to the question Please give benchmark data for emissions from each emission point

For each parameter, give monitoring details

B2.10.9 Flow rate

Emission point

NONE

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.10 pH

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.11 Temperature

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.12 COD/BOD

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.13 Colour

Emission point

Monitoring frequency

Monitoring methods

Are the equipment/sampling/labs MCERTS certified?

B2.10.14 Parameter name

B2.10.15 Where new plant is proposed, describe any different monitoring you will carry out during commissioning.

Details

B2.10.16 Describe any different arrangements during start up or shut down.

Details

B2.10.17 Any additional information on monitoring and reporting of emissions to water or sewer

Document reference

Monitoring and reporting of emissions to air

In response to the question Potential fugitive emissions to air you have identified the main chemical constituents of the emissions under both normal operating conditions and the effect of possible emergency conditions. In this

section we require further information on how you monitor the pollutants in these emissions. You must provide information for

- Flow rate
- pH

If you have entered data into the H1 database, emission point, monitoring frequency and method information will already have been entered into Section 2.2 and will be repeated here to save you time. In addition we ask you to also enter here how the monitoring is validated.

If you have not used H1, please enter all the information below manually.

B2.10.18 Pollutant details

Pollutant

VOC's

Emission point

A1

Monitoring frequency

Continuous

Monitoring methods

To be agreed see application enclosure 6

Are the equipment/sampling/labs MCERTS certified?

Yes

B2.10.19 Where new plant is proposed, describe any different monitoring you will carry out during commissioning.

Details

B2.10.20 Describe any different arrangements during start up or shut down.

Details

B2.10.21 Any additional information on monitoring and reporting of emissions to air

Document reference

Monitoring and reporting of waste emissions

B2.10.22 Parameters

Parameter name

All wastes

Emission point

N/A

Monitoring frequency

Continuous

Monitoring methods

Records of outputs

B2.10.23 Will any waste produced for disposal to landfill meet the relevant waste acceptance criteria for the landfill site?

Yes

B2.10.24 Any additional information on monitoring and reporting of waste emissions

Document reference

Environmental monitoring (beyond the installation)

B2.10.25 Is environmental monitoring required?

No

B2.10.26 Describe any environmental monitoring carried out or proposed

B2.10.27 Document reference for additional information on environmental monitoring

Document reference

Monitoring of process variables

B2.10.28 Describe the monitoring of process variables

The following are examples of process variables that might need monitoring.

- Product loss or wastage
- Fresh water use across the installation and at individual points of use
- Energy consumption across the installation and at individual points of use
- Consumption of refrigerants
- Consumption of cleaning chemicals

Add a row for each process variable.

Process variable	Describe what is done or proposed
N/A	

B2.10.29 Are improvements needed to the monitoring of any of the process variables listed above?

No

B2.11 Closure

[Guidance here]

B2.11.1 Is this a new plant or development of an existing plant?

Yes – new plant or development of existing plant

> Describe how the following steps have been taken into account at the design and build stage of the activities. Justify where they have not been included.
>
> Underground tanks and pipework are avoided where possible (unless protected by secondary containment or a suitable monitoring programme)

None on site

There is provision for the draining and clean-out of vessels and pipework prior to dismantling

None on site

Lagoons and landfills are designed with a view to their eventual clean-up or surrender

None on site

Insulation is provided which is readily dismantled without dust or hazard

None on site

Materials used are recyclable (having regard for operational or other environmental objectives).

All materials used in the construction of the site are recyclable.

The site closure plan

(An example of the sort of data required in a site closure plan is given in Appendix 2).

B2.11.2 Do you have a site closure plan?

Yes

Give the post or group responsible for maintaining the site closure plan

Technical Director

B2.12 Installation Issues

For guidance click here

B2.12.1 Will you be the only permit holder on the installation?

B3 Emission benchmarks

Emissions inventory and benchmark comparison

For guidance click here

You will have entered your emissions into the H1 software tool along with the appropriate benchmarks from the guidance.

In Section 1 of this application you should justify any deviations from the benchmarks.

There are no further requirements in Section 3.

B4 Impact

Impact assessment

The level of detail provided in the application should correspond to the level of risk to the environment from the emissions of the activities. Installations that have important or sensitive receptors located within the receiving

environment, or emit substances of a nature and quantity that could affect environmental receptors, may require more detailed assessment of the potential effects. Where installations release only a low level of emissions and there are no important or sensitive receptors, these sites may not require such detailed assessment.

Operators should record the facts that support their assessment of the impacts of their activities and provide these with the application. Guidance note H1 Ref 6, and the associated software tool, provides a methodology for making this assessment, which gives further guidance on the nature of the information and the level of detail required. It also provides a method for determining the significance of the impact of a release on the receiving environment.

Location of receptors, emissions sources and monitoring points

Scaled maps and site plans should be provided as appropriate to show relative locations of receptors, sources and any monitoring points at which measurements have been made on the emissions or the impact of the emissions. The extent of the area covered may be local, national or international depending on the size and nature of the installation and the nature of the emissions.

The following important and sensitive receptors must be considered as part of the assessment. Any:

- Habitats Directive site within 1km of the installation (or within 15km of the site of a power plant with thermal input greater than 50MWth) (see The Habitats Regulations)
- Habitats Directive site which is downstream of the installation (at any distance) (see The Habitats Regulations)
- Site of Specific Scientific Interest (SSSI or in Northern Ireland ASSI), within 2km of the installation (see The Habitats Regulations)
- Site of Specific Scientific Interest (SSSI or in Northern Ireland ASSI), which may be affected by the installation (see The Habitats Regulations)
- human population (e.g. schools, hospitals or neighbouring properties)
- cultural heritage site
- sensitive soils
- sensitive watercourses or ground waters
- sensitive area of the atmosphere (e.g. Ozone depletion of stratosphere, air quality management zone or area where an EQS is threatened).

Odour and noise sensitive receptors should have been identified in sections 2.2 and 2.9 of the application

B4.1 Assessing the impact of emissions

For guidance click here

B4.1.1 Important and sensitive receptors

Add sections as required.

Receptor

Map reference of receptor

SK035046

Type of receptor which may be affected by the emissions from the installation

SSSI

List of emissions from the installation which may have an affect on the receptor and their pathway. This should include both negative and positive effects

Airborne VOC's

Location of supporting information on impact of emissions e.g. results of H1 assessment, results of detailed modelling, contribution from other sources- appended to this application

H1

Identification of the effects of the emissions

Operators should provide evidence that a satisfactory assessment of the potential effects of emissions from the permitted activities has been carried out, and that these impacts are acceptable. This may be done by using the H1 guidance and software tool, and other supporting information as required, to show the effects on the environment resulting from the emissions from the activities. Provide the results of the assessment with your application and summarised below.

B4.1.2 Summary of assessment of impacts of emissions

Repeat this section as required

Significant emission

Significant emission by substance/medium, i.e. where Process Contribution (PC) is greater than 1% of the EQS or EAL See H1 (Ref 6) for guidance

Name

None

Location of supporting information on impact of emissions (e.g. results of H1 assessment, results of detailed modelling, contribution from other sources- appended to this application)

H1

Confirmation that significant emissions do not result in a breach of an EQS or an EAL, by listing Predicted Environmental Concentration (PEC) as a percentage of EQS or EAL for each substance (including long and short term effects as appropriate)

Confirm

If H1 has not been used for the assessment, describe the alternative method below, including reference to any supporting documentation

B4.2 The Waste Management Licensing Regulations

For guidance click here

For activities involving the disposal or recovery of waste, consider the relevant objectives. Identify any further actions which need to be taken beyond those which you have already committed to, for the purposes of BAT, in this Application. It is likely in most cases that there will not be any, but we need your confirmation.

B4.2.1 Do you need to take further action to meet the relevant objective in the following areas?

risk to water, air, soil, plants or animals

No

causing nuisance through noise or odours

No

adversely affecting the countryside or places of special interest;

No

B4.2.2 Identify relevant development or local waste plans?

Implementing, as far as material, any plan made under the plan-making provisions

Add a row for each plan

Identify any development plans made by the local planning authority, including any waste local plan	Comment on the extent to which the proposals accord with the contents of any such plan

Walsall UDP	**Installation complies**

B4.3 The Habitats Regulations

For guidance click here

B4.3.1 Are there any sites of special scientific interest (SSSIs) which are within 2 kilometres of the installation?

Yes

Clayhanger

Are there any other SSSIs which may be affected by emissions from the installation?

No

B4.3.2 Are there any European sites, as defined by regulation 10 of the Conservation (Natural Habitats etc.) Regulations 1994, which may be affected by emissions from the installation?

No

B4.3.3 Have you provided previous information related to the Habitats Directive for Town and Country Planning, COMAH or any other purpose?

No

Do conservation objectives exist for any of the sites identified?

No

Having carried out your H1 assessment of emissions, do any of your emissions fall near or above the levels identified as likely to have a significant impact on any of the European sites?

No

B5 Environmental statements

B5.0.1 Has the development of the installation (or any subsequent change or extension of the development) required an environmental statement under Council Directive 85/337/EEC on the assessment of the effects of certain public and private projects on the environment?

No

B6 Statutory consultees

We will use the information in this section to identify who we must consult about your proposals.

B6.1 Local authorities

B6.1.1 In which local authority area(s) is the installation located?

Name of local authority	Main authority
Walsall MBC	

Please name the county council(s) unless there is a unitary authority.

B6.2 Health authorities

B6.2.1 In which Primary Health Care Trust or Health Board area is the installation located?

Name

Walsall teaching Primary Health Care Trust

B6.3 Sewerage undertakers

B6.3.1 Could the installation involve the release of any substance into a sewer vested in a sewerage undertaker?

No

B6.4 SSSIs within 2km

B6.4.1 Are there any sites of special scientific interest (SSSIs) which are within 2 kilometres of the installation?

Yes

B6.5 Other affected SSSIs

Are there any other SSSIs which may be affected by emissions from the installation?

No

B6.6 European sites

B6.6.1 Are there any European sites, as defined by regulation 10 of the Conservation (Natural Habitats etc.) Regulations 1994, which may be affected by emissions from the installation?

No

B6.7 Harbours

B6.7.1 Could the installation involve the release of any substance into a harbour managed by a harbour authority?

No

B6.8 Fisheries

B6.8.1 Could the installation involve the release of any substance directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No

B6.9 Nuclear and COMAH

B6.9.1 Is the installation on a site for which a nuclear site licence is required under section of the Nuclear Installations Act 1965?

No

B6.9.2 Is the installation on a site for which a major accident prevention policy document is required under Regulation 5 of the Control of Major Accident Hazards Regulations 1999 or a safety report is required under Regulation 7 of those regulations?

No

B7 Specified waste management activities

B7.1 Relevance

B7.1.1 Are you applying to operate any 'specified waste management activities'?

Yes

B7.2 Planning status

B7.2.1 Which of the following applies to the specified waste management activities identified in B7.1?

You have planning permission.

Document reference number

Application Enclosure 7 Planning Permission

B7.2.2 Does your planning permission stipulate hours of operation ?

No

B7.2.3 What are your hours of operation?

Details

00:01 Mondays to 24:00 Sundays

B7.3 Fit and proper person

B7.3.1 Has the operator, or any other 'relevant person', been convicted of any 'relevant offence'?

Relevant offences

We need to make sure that whoever holds the permit is a 'fit and proper person' in relation to any specified waste management activities. This includes consideration of relevant offences, technical competence and financial

provision.

A ‘relevant person’ includes each partner, director, manager, company secretary or any similar officer or can be an employee.

No

B7.4 Technical competence

B7.4.1 Are the specified waste management activities covered by the WAMITAB (Waste Management Industry Training Advisory Board) award scheme?

Yes

B7.4.3 Who will provide the technically competent management of the specified waste management activities?

Title

Mr

First name

Andrew

Last name

Williams

Position

Technical Director

Level of WAMITAB certificate

4TSH

Certificate date

22-Jul-2003

Date of birth

22-Jan-1965

Document reference number for copy of certificate

Application Enclosure 4 WAMITAB certificates

Title

Mr

First name

Andrew

Last name

Williams

Position

Technical Director

Level of WAMITAB certificate

4TMH

Certificate date

27-Nov-2003

Date of birth

22-Jan-1965

Document reference number for copy of certificate

Application Enclosure 4 WAMITAB certificates

B7.4.4 Are any of these 'Responsible people' already providing the technically competent management at other IPPC installations or at sites licensed under Part II of the Environmental Protection Act 1990?

Yes

please provide details of these people.

A J Williams provides Technical Competence for the Envirosol Environment Management Facility Dudley Permit PP3437SE

B7.5 Financial provision

You should demonstrate that you are of sufficient financial standing to hold a PPC permit. The amount of financial provision considered suitable will be calculated on the basis of the waste types and quantities within the application. Refer to guidance note WML 105.

The preferred method is by a credit reference.

Alternatively, you can provide us with evidence of financial standing or availability of funds. Please tick the appropriate box and provide evidence with the application

Statement of account addressed to the applicant from a financial institution shoring sufficient funds deposited

B7.6 Expenditure plan

B7.6.1 Provide a plan of the estimated expenditure for each phase of the specified waste management activities.

The plan should include the likely costs of:

- monitoring
- restoration - landfill only
- aftercare - landfill only
- clearing the installation (including drainage systems) of all wastes - non-landfill
- remedial action in the event of the failure of pollution control systems

We recognise that this plan may need to be revised before the issue of final permit.

Document reference number for accounts

Application Enclosure 5 Expenditure Plan

B8 PPC compliance assessment

You may have covered all of the issues in this section in H1. If so, you do not need to complete this section, however, please read through this section to make sure that you have taken all the aspects into account, in particular the priorities identified for this sector, and that you have given adequate emphasis to the assessment.

This is a very important part of your application. Please give it due consideration. To demonstrate that you are applying BAT to prevent or minimise emissions from your installation you should meet the following requirements:

Comparison with Indicative BAT

Indicative BAT and general PPC principles have been provided in Section 2 (techniques) and Emission benchmarks for certain substances and operations. You will already have confirmed whether you comply with these requirements, or provided a justification if you are proposing to deviate from any of them (using a BAT options appraisal method such as H1 where appropriate).

Where there is no Indicative BAT

For a number of emissions from your process there may be no specific indicative BAT provided in Sector Guidance. (This is particularly the case for waste sectors treating a wide range of wastes and acting as transfer facilities.) In these cases, you will still need to justify that the level of control you are applying is BAT according to the principles of costs and environmental advantages.

To demonstrate this, you should consider the options that are available for the control of any emissions for which there is no indicative BAT and decide which option represents BAT for your process.

In some cases this may be qualitative and relatively brief. More major issues, eg the fitting of new abatement plant or a change of process, may require a full appraisal of the costs and environmental benefits of the options.

To do this, you should follow the steps below.

B8.1 Identify the environmental priorities for your installation

This should take into account the following:

- Key issues and priorities for the sector;
  - Accident prevention and limitation of consequences
  - In-process controls - waste storage arrangements
  - Management systems
  - Waste minimisation and selection of appropriate disposal options
  - Operational techniques for waste treatment activities
  - Emissions to sewer;
- Main areas of environmental impact:
  - effluent management
  - air/water quality
  - how close your dispersed emissions are to causing a breach of EALs
  - odour
  - fugitive emissions (where not included in the above)
- Any other priorities based on your knowledge of the installation e.g. local nuisance (dust and noise etc)

B8.1.1 List the environmental priorities for the installation in terms of these parameters, using information identified above.

- Water use
- Waste minimisation (product loss)
- Odour
- Waste management
- In terms of reducing the total air quality burden:
- In terms of local air quality concentrations
- In terms of reducing Global Warming
- In terms of reducing Ozone Deletion

- Fugitive releases to air
- Nuisance issues
- In terms of reducing the total water quality burden:
- In terms of local water quality concentrations
- Fugitive releases to water/land

Reductions in fugitive emissions to air

Other issues which it may be appropriate to consider is the impact on indirect emissions as a result of your energy use. This may be a major environmental priority for your installation. Even though not directly regulated by IPPC it forms part of the integrated assessment.

B8.2 Consider a range of options to meet the priorities.

Explain how what you are doing already or what you are proposing meets these priorities. Where there is a range of options (and there usually is) explain why the chosen one is BAT in your situation. You may wish to describe improvements already made.

Note that for some issues the assessment of the best option may be qualitative and relatively brief. For more major issues, eg. the fitting of new abatement plant or a change of process, a formal Options Appraisal may be appropriate. H1 provides a methodology for Options Appraisal and if you have already entered the emissions inventory for your current situation into the software tool will be a relatively simple exercise.

Consider inclusion of manual bulking activites within the VOC collection and abatement system to augment the existing management controls of that activity.

B9 Proposed improvement programme

B9.0.1 Improvement programme requirements

Please summarise below all of the dates you have given for carrying out any actions in the previous sections

Class 5 Improvements – Requires fundamental change of process

Class4 Improvements – Requires major investment

Class 3 Improvements – Requires new or improved procedures

Class 2 Improvements – Requires trials or studies, results of audits etc

Class 1 Improvements – Requires information not submitted with the application

Form IPPC 1 Part C

If you wish to vary an existing permit please contact the Environment Agency for guidance.

Form IPPC 1 Part D

If you wish to transfer an existing permit please contact the Environment Agency for guidance.

Form IPPC 1 Part E

If you wish to surrender a permit please contact the Environment Agency for guidance.

Form IPPC 1 Part F

F1 Fees and charges

Calculate the application fee and provide the other information requested using the template below. In completing this, you should refer to the detailed charging scheme guidance.

F1.1 Type of application

F1.1.1 What type of new application are you making?

Neither: not an application for mobile plant

F1.1.2 What type of variation are you applying for?

F1.1.3 What type of transfer are you applying for?

F1.1.4 What part of the permit are you applying to surrender?

F1.1.5 Is this a staged application?

No

F1.2 Type of installation

F1.2.1 Type of installation

Other

F1.3 Invoice address

F1.3.1 Contact name

Title, for example Mr, Ms, Dr

Mr

First name

Andrew

Surname

Williams

Position

Technical Diretor

Address

Building name or number

Unit 28

Street

Blowers Green Rd

Locality

Thornleigh Trading Estate

Town

Dudley

County

West Midlands

Postcode

DY2 8UB

Phone number

01384241808

Fax number

01384237519

Email address

F1.4 EP OPRA summary

This section contains results of the analysis which you completed using the supplied EPOPRA spreadsheet. Please ensure that you have completed the spreadsheet accurately as this information is used to calculate charges.

Press the button below to import the spreadsheet data.

F1.4.1 Complexity

Band	Number	Score
A	**1**	**2**
B	**3**	**45**
C	**0**	**0**
D	**0**	**0**
E	**0**	**0**

F1.4.2 Emissions

Type	Band	Score
Air	-	**0**
Water	-	**0**

Land	-	0
Sewer	-	0
Waste	-	0
Location factor	C	20
Operator performance	A	10

F1.5 Calculation of charge

Calculate the amount you must pay using the questions below. Some of the values you need can be imported from the EPOPRA spreadsheet by clicking the Import data button.

New applications and variations

Total OPRA charging score

87

x Charge multiplier

177

= Amount £

15399

Transfer or surrender

Appropriate fixed charge £

Low impact installation

Appropriate low impact charge £

Standard farm permit

Appropriate farm permit charge £

Standard farm permit

Appropriate directly associated activity charge £

F1.5.1 Do you undertake any Part A(2) or Part B activities?

No

F1.5.2 Total of charges in this section

Fee attached £

15399

F2 Commercial confidentiality and national security

F2.0.1 Is there any information in the application that you wish to justify being kept from the public register on the grounds of commercial confidentiality?

No

F2.1 National security

If there is any information in the application that you believe should be kept from the public register on the grounds of national security, please attach

- full information on separate sheets
- a copy of the application to the Secretary of State for a Direction on the issue of national security.

Do not include anything about national security in this form nor give reference numbers to the relevant information/documents submitted.

F3 Data protection notice

The information you give will be used by the Environment Agency to process your application. It will be placed on the relevant public register(s), and used to monitor compliance with licence/permit conditions, or to process renewal applications.

We may also use and/or disclose any of the information you give us in order to:

- offer/provide you with our literature/services relating to environmental matters
- consult with the public, public bodies and other organisations (for example Health and Safety Executive, local authorities, emergency services, DEFRA on environmental issues
- carry out statistical analysis, research and development on environmental issues
- provide public register information to enquirers
- investigate possible breaches of environmental law and take any resulting action
- prevent breaches of environmental law
- assess customer service satisfaction and improve our service.

We may pass on the information to agents/representatives who we ask to do any of these things on our behalf.

Individuals have a right to see the information we hold about them. We will correct it if it is inaccurate.

You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosing information you give us in this application

The law says we must place your application on the public register unless you provide good reasons why it should stay confidential.

If you want any of the information in your application to remain confidential, enclose a letter with the completed application, giving your reasons in full.

We will let you know within 14 days if we agree that the information is confidential.

F4 Any other information

F4.0.1 Is there any other information that you wish to submit in support of your application?

No

F5 Declaration and signatures

It is an offence under Regulation 32 of the PPC Regulations to

- make a statement which you know to be false or misleading in a material particular
- recklessly make a statement which is false or misleading in a material particular

for the purpose of obtaining a permit (for yourself or anyone else) or seeking the variation, transfer or surrender of a permit.If you make a false statement

- we may prosecute you and
- if you are convicted, you are liable to a fine or imprisonment, (or both).

For information on the number of copies of your application you must submit, see the Submission document on the CD.

Declaration

F5.0.1 I/we certify that the information in this application is correct. I/we apply

for a new permit

in respect of the particulars described in this application (including supporting documentation I/we have supplied).

Signatures

F5.0.2 Signature(s) of current operator

Please note that each individual operator must sign a paper copy of the declaration themselves, even if an agent is acting on their behalf.

For applications from

- more than one person – all persons should sign below
- a company or other corporate body – an authorised person should sign below

Title, for example Mr, Ms, Dr

Mr

First name

Andrew

Surname

Williams

Position or job title

Technical Director

Date

13-Feb-2008

F5.0.3 Signature(s) of proposed transferee(s)