

Facility Reference Information

Please complete the following information:

Company Name:

J M Envirofuels (Barry) Limited

Location:

Berth31, Wimborne Road, Barry, Glamorgan, CF63 3DH

Permit Number:

EPR/AB3690CP

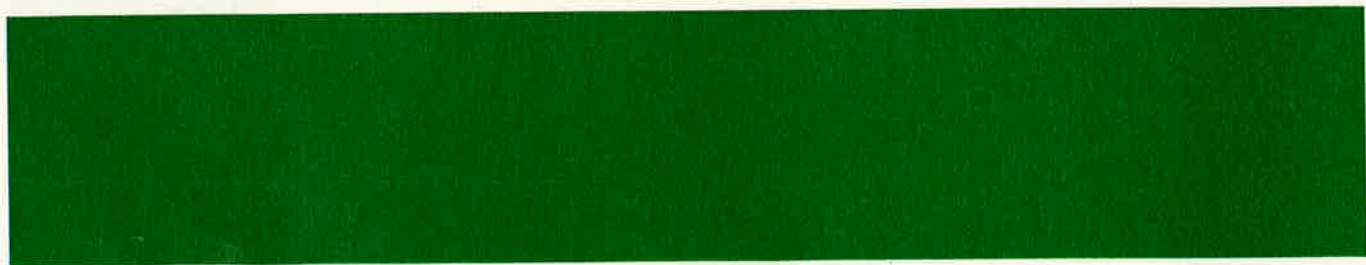
If you have data already stored in a previous version of the H1 software you may import it by pressing the button to the right.

Import Utility

Please note that before the import can take place any data that already exists in this copy of the tool will be removed. Please also note that any 'Operating Mode' information you had entered in your Air and Water inventories will defer to the default of 100% on data import

NOTE ON MICROSOFT ACCESS SECURITY WARNING

Depending on your security settings, you may get a security notice appearing each time the import routine connects to a table in your source database. You need to click 'Open' on this message for the import routine to be successful. There are 18 tables to connect to in total but if you place your cursor over the 'Open' button you will be able to repeatedly click your mouse to make this process execute quickly and without too much frustration. We apologise for this inconvenience but it is an aspect of Microsoft Security provisions that are beyond our control.



Introduction to Step 1

Step 1: Describe the Scope and Options

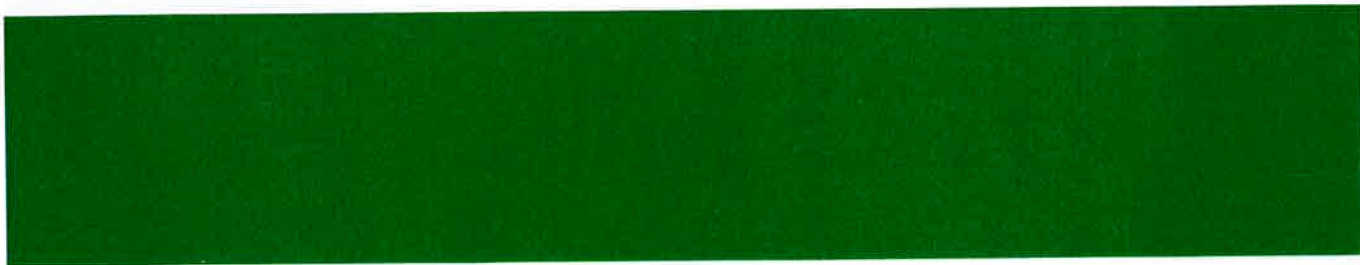
The aim of this step is to:

- state the OBJECTIVES of the assessment
- in the case of ENVIRONMENTAL ASSESSMENT of the whole facility, describe the scope of the activities to be included in the assessment;
- in the case of OPTIONS APPRAISALS, identify candidate options for BAT by considering all relevant techniques to prevent and minimise pollution and the scope of activities covered by the techniques.

Depending on the reason for the assessment, you will need to complete different modules of the guidance. The software will automatically select the required modules according to the responses you enter.

NOTE: If you are going to complete more than one assessment or appraisal, make sure that you create a copy of the H1 file for each new assessment BEFORE you begin to input data. This is because Microsoft Access automatically saves changes to the current file you are using, rather than allowing you to save your changes at the end of your work.

TO CONTINUE WITH STEP 1, PRESS "NEXT".



Describe the Objectives

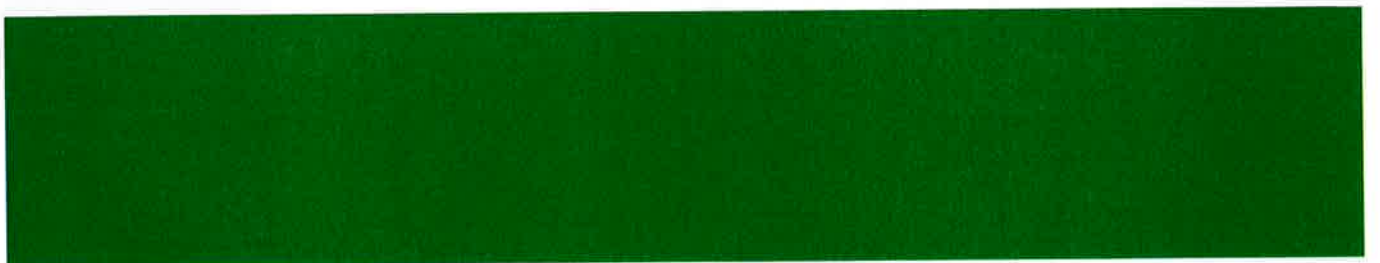
Depending on the reason for the assessment you will need to complete different parts of the tool.

Select the type of assessment:

- ☒ a) to carry out an ENVIRONMENTAL ASSESSMENT of the releases resulting from the facility as a whole Do Steps 1, 2 and 3 only
- ☐ b) to conduct a costs/benefits OPTIONS APPRAISAL to determine BAT or support the case for derogation under the Industrial Emission Directive. Do Steps 1,2, 3 and 4 and continue with 5 and 6 if necessary

1.1 Briefly summarise the objectives and reason for the assessment in terms of the main environmental impacts or emissions to be controlled:

To appraise the existing environmental impact of all emissions from all activities at the facility for an existing Wood yard for receiving wood for processing to make a biomass fuel as well as for temporary storage of wastes for transfer to recovery operations.



Scope of Environmental Assessment

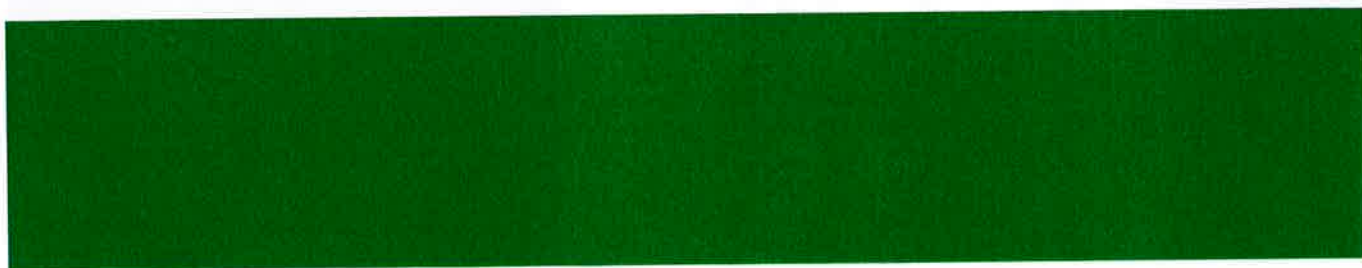
List the activities included in the assessment

Number Activity

Use the 'Add' button at the bottom left to create a new activity

1	Materials handling for processing to make biomass fuel - (Wood), storage, shredding, screening, bulking up
2	Materials being received for temporary storage prior to bulking up for transfer off site for Recovery (Glass, metal, plasterboard, Tra

Comments



Describe the Candidate Options

Identify all reasonably applicable options of techniques

You should include:

- a brief description of individual control measures or configurations of control measures selected for each option, and the activities with which they are associated (the existing base-case may conveniently be the first option).
- justification why any techniques generally applicable to the regulated facility have not been selected for assessment. (see relevant H1 annex) (This should be based on regulated facility-specific technical, not economic reasons).
- for new projects, whether any initial environmental assessment that was done at the project evaluation stage, or any screening of technology or process routes prior to this assessment, particularly where this has a bearing on environmental performance. (see H1)

In the case of b) or c)
please enter your Comments here:

Option Number	Title	Description
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1	Storage	Waste Acceptance procedures in place and EMS
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2	Shredding / Screening / loading	Dust Management plan in place Noise Management Plan in Place Dust Management Plan in Place Fire Prevention and Mitigation Plan in place
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Once a series of options have been generated for the proposed project, it is recommended that the Operator discuss these with the local Regulator to check both parties agree that the options are satisfactory. This may save the Operator from spending resources on assessment of options which are unlikely to meet the required environmental performance.

List the main activity or activities to which the release control options are applicable and any other activities that will be affected by the candidate control option on the main activity:



Introduction to Step 2

Step 2: Emissions Inventory

The aim of this Step is to produce an inventory of sources and releases of polluting substances from each option. This is used as the basis for the subsequent evaluation of environmental impacts.

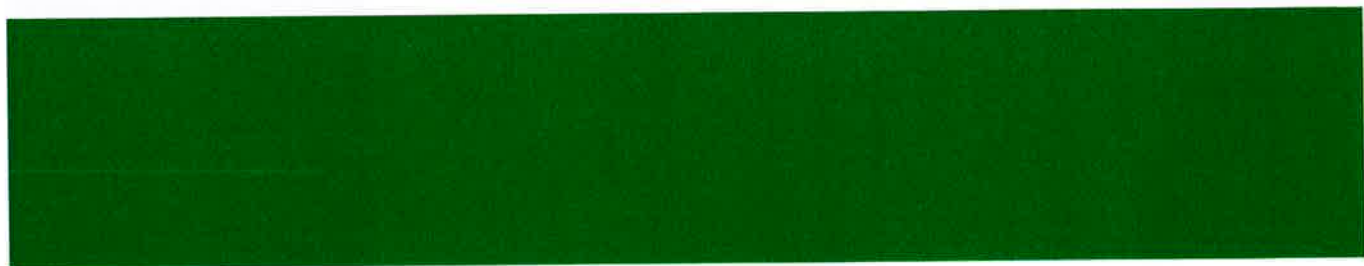
For this Step you will require information on:

- release points and sources of emissions to air, water (inc. sewer) or land
- concentration and mass rate of released substances
- frequency and duration of releases and how these relate to long term and short term effects

IMPORTANT NOTES

- you may need to consider a suitable method for assessment of groups of pollutants, such as VOCs, heavy metals, uncharacterised liquid effluents, etc (see "Grouping air emissions" in Annex F).

TO CONTINUE WITH STEP 2, PRESS "NEXT".

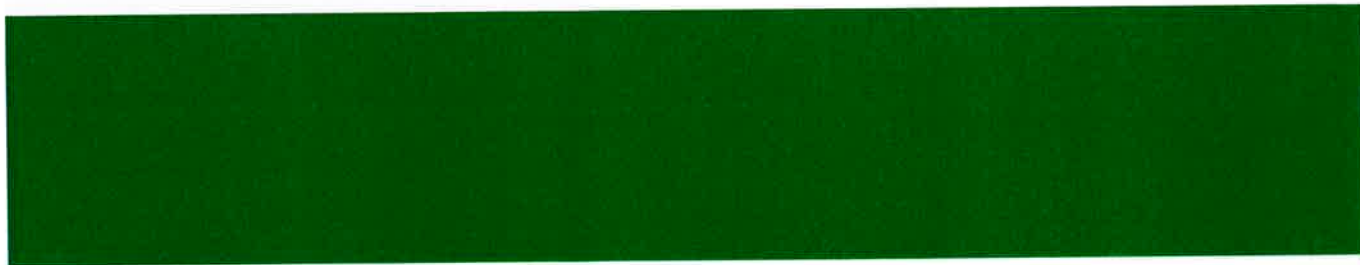


Energy Consumption

Please list all Energy Sources and Annual Consumption

Select energy sources by Clicking on 'Add' and using the pull-down list.

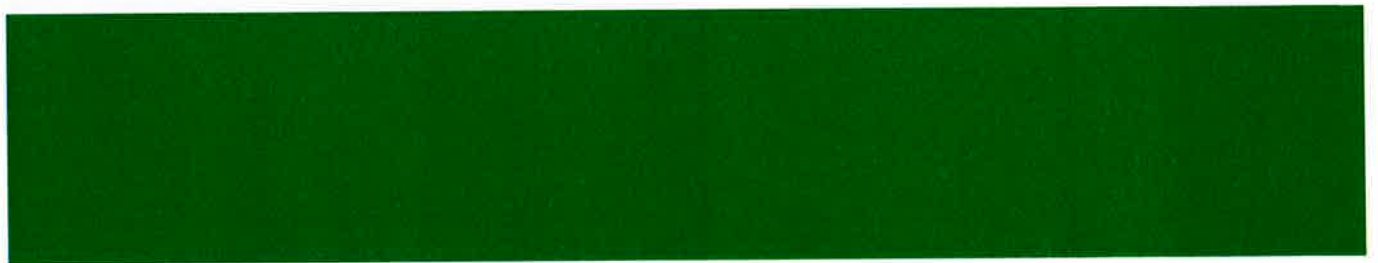
Number	Energy Sources	Delivered MWh/yr	Conversion Factor	Primary MWh/yr	CO2 Factor	CO2 tonne/yr
1	Diesel					
2	Calour Gas					
		indirect emissions				
		indirect emissions				
		Comments				
		Diesel Generator powers the weighbridge (1500litres per year)				
		Calour Gas bottle powers the CCTV unit (24 bottles a year)				
		Diesel - Loading Shovel (x1) 5000 Litres per year.				



Raw Materials

Please list all Raw Materials Consumed:

Number	Material	Annual Consumption	Units
1	Non-potable Water	1.82 cubic m/year	
2	Potable water	3 cubic m/year	
Comments		only two persons on site	



Performance Indicators

Enter consumption data to determine your performance indicators

Which of the following parameters do you use for calculating your performance **Raw Material**

Please describe and justify your choice:

Basic Consumption Data:

Name	Annual Quantity	Units
Amount of Product:		
Main Raw Material: Diesel	6,500.00	litres
Potable Water:	3.00	m3
Non Potable Water:	1.82	m3
Energy:		MWh
Waste: Inert:		tonne
Hazardous:		tonne
Stable Non-reactive Hazardous:		tonne
Biodegradable Non-hazardous:		tonne
Other Non-hazardous:		tonne

Specific Consumption per litres of Diesel:

Production Efficiency:		/litres
Potable Water:	0.00	m3
Non Potable Water:	0.00	m3
Energy:		MWh
Waste: Inert:		tonne
Hazardous:		tonne
Stable Non-reactive Hazardous:		tonne
Biodegradable Non-hazardous:		tonne
Other Non-hazardous:		tonne



Introduction to Step 3

Step 3: Quantify Impacts

The aim of this Step is to quantify the effects on the environment of the releases listed in the inventory in Step 2. The guidance provides methods for assessing the eight main environmental considerations of most relevance to the EPR regime. Your releases may not result in effects to all eight of these considerations, and this tool allows you to screen out any that are not relevant.

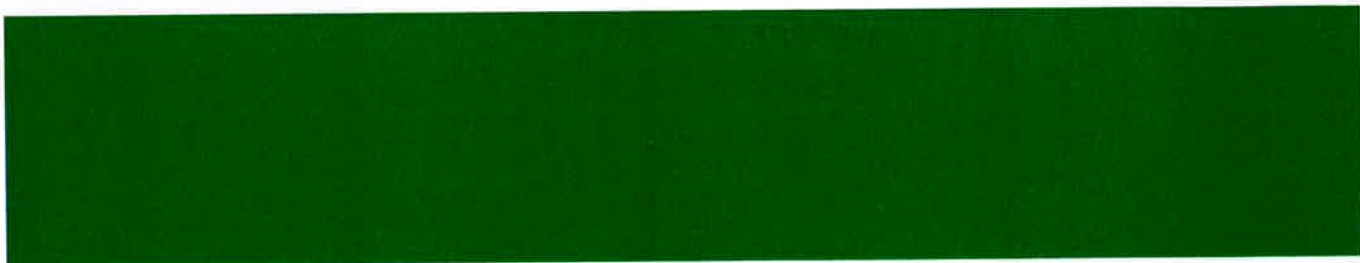
The emissions you entered in Step 2 are automatically brought forward for assessment into each environmental consideration that is relevant for that type of release (e.g. a release may have more than one type of effect).

This part of the tool allows you to screen out any releases that are insignificant, and to identify those releases where further, detailed assessment of the potential environmental impact may be required.

IMPORTANT NOTE

This software tool only completes part of the requirements for Step 3, as described above. Depending upon the degree of risk to the environment presented by the releases, the operator may need to do further, detailed assessment of the potential effects using methodologies that are not provided here. This information should be submitted separately, as indicated within this part of the tool.

TO CONTINUE WITH STEP 3, PRESS "NEXT".



Identify Relevant Impacts

Identify any environmental impacts that are not relevant to this assessment by deselecting from the list below:

Releases in Part 2?		Justification for omission
No	<input type="checkbox"/> Air	Dust Management plan in use, not emissions for the activities undertaken
No	<input type="checkbox"/> Deposition from Air to Land	Dust Management plan in use, not emissions for the activities undertaken
No	<input type="checkbox"/> Water	Surface waters contained on site
No	<input type="checkbox"/> Waste	No waste produce, all materials on site go off for energy generation and recovery
No	<input type="checkbox"/> Visual	Site is in the Docks
No	<input type="checkbox"/> Ozone Creation	No materials used to effect ozone
No	<input type="checkbox"/> Global Warming	Activities do not impact on glbal warming - no CO2 released

If you have deselected an environmental impact as not relevant to this assessment, no further assessment of this impact will be carried out



Local Environmental Quality

Describe the Quality of the Environment:

Provide a brief description of the main local factors that may influence the importance of the impact of emissions in the surrounding environment

Air Quality

Are there any Environmental Quality Standards relating to substances released from the activities, which may be at risk due to additional contribution from the activity ?
(Environmental Quality Standards for air and water are described in EPR Technical Guidance Notes)

NA

Are there any Local Air Quality Management Plans applicable to releases from the activity?

No

Water Quality & Resources

Are there any Environmental Quality Standards relating to substances released from the activities, which may be at risk due to additional contribution from the activity?

NA

Are proposals to abstract water satisfactory in order to obtain an abstraction licence?

No

Is the activity located in a groundwater vulnerable zone (for activities with direct releases to land only)?

No

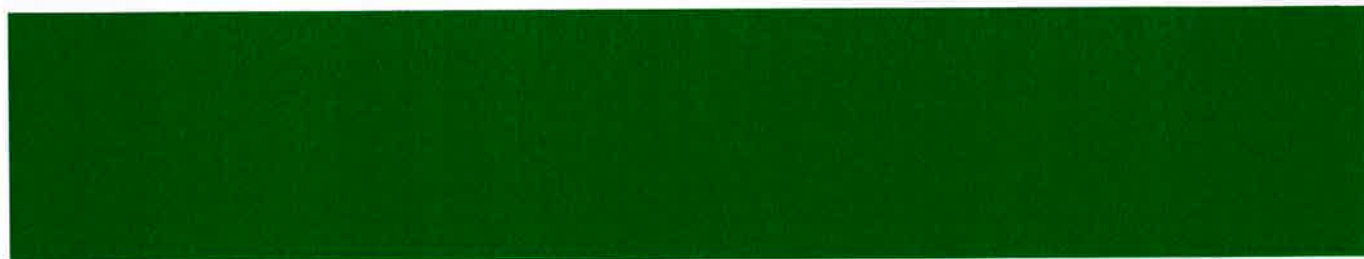
Proximity to Sensitive Receptors

Is public annoyance likely to be an issue for noise, odour or plume visibility ?

Residents are over 300m away, the site has neighbours that are likely to cause more annoyance (Scrap metal yard, Chemical plant)

Are there any wildlife habitats, eg Special Areas of Conservation, or Special Protection Areas, likely to be affected by releases from the activity? (Description of requirements of Habitats Directive is provided in EPR Technical Guidance Notes)

SSSI is over 800m - 1km away. Site activities will not impact on this



Summary Tables

Print or Preview summary tables:

Choose which summary tables



Export Releases
to OPRA Profile

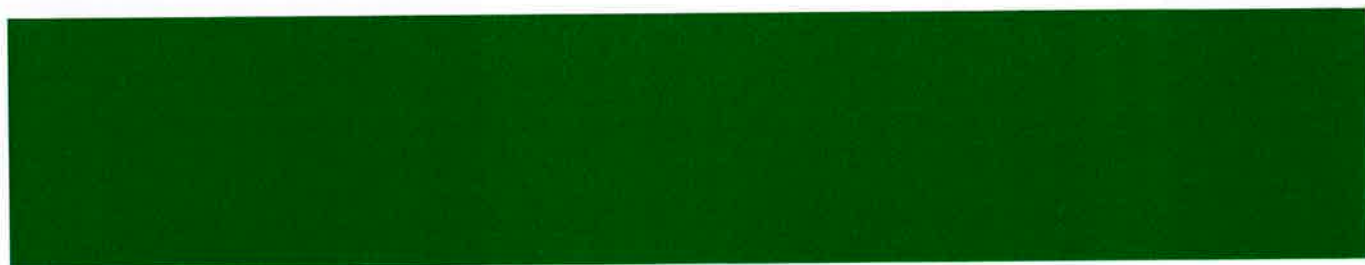
Include

- ☐ All Air and Water Substances
☒ Air and Water Release Not Screenshot

Export to
Excel

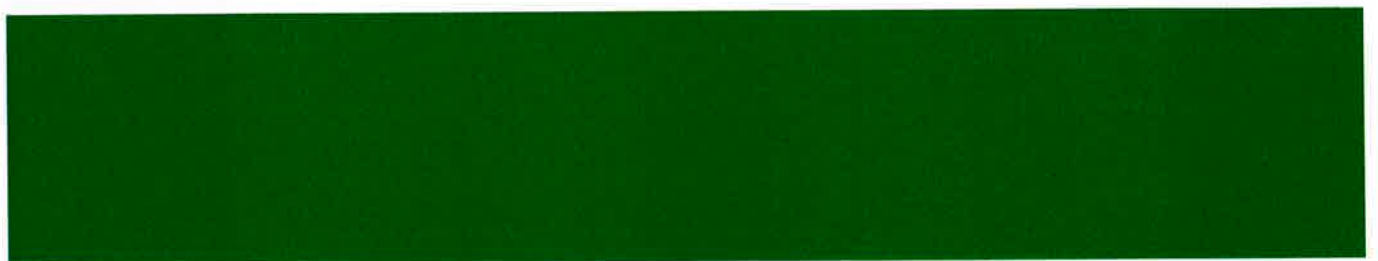
Preview

Print



Air Long Term Effects - Total EQ by Option

No Data Available



Water Long Term Effects - Total EQ by Option

No Data Available



Summary of Environmental Assessment

You have now completed all of the steps in this software for the environmental assessment. This will provide you with:

- an inventory of all emissions sources and substances emitted from your activities
- an information trail of how the impacts of these emissions have been assessed
- a summary of the impacts

You now need to use this information to confirm whether the emissions are acceptable, i.e. that they do not cause significant pollution to occur, by responding below:

Do any of the emissions exceed any of the following

Statutory Emission limit values:

☐ No

If yes, identify the substances concerned and improvements that are needed to at least meet the statutory requirement

Environmental Quality Standards
(air and water):

☐ No

If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modelling and/or pollution controls are needed. Ensure that the relevant EQS reference conditions are applied.

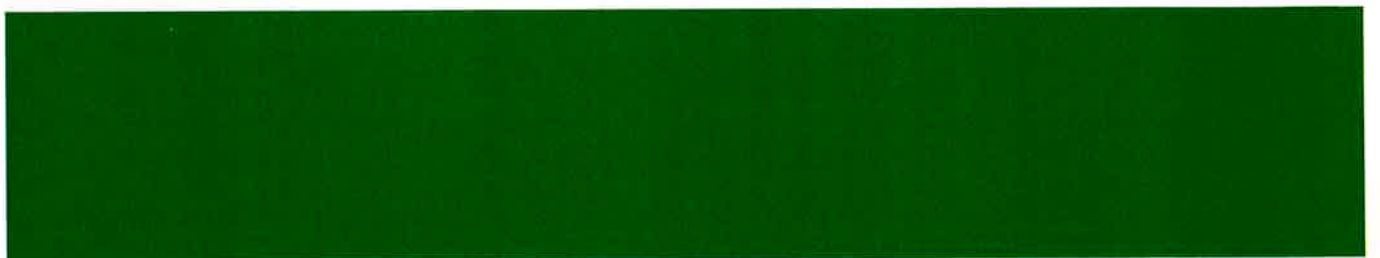
Environmental Assessment Levels:

☐ No

If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modelling and/or pollution controls are needed.

Use the box below to provide further information on any of the above to which you have responded 'Yes':

Finally, print all of the information and submit with your application. Remember to include any supplementary information and reports that you have had made reference to during the assessment procedure.



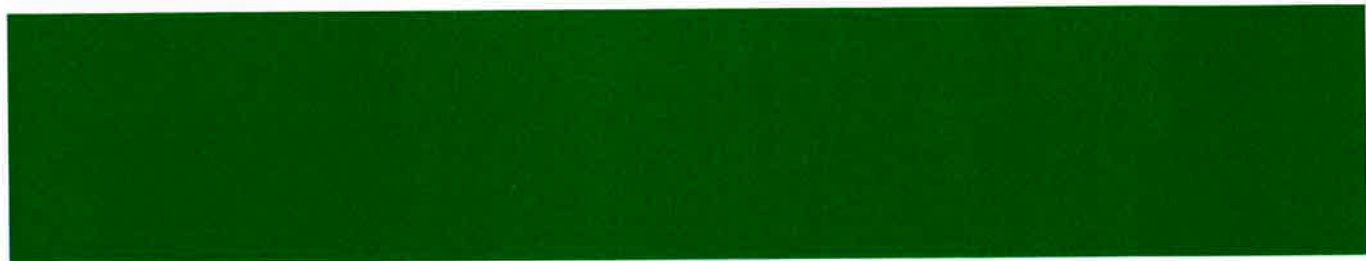
Compare Impacts between Options

The aim of this Step is to compare the overall performance of each option for all of the environmental considerations assessed in Step 3, in order to identify which option represents the lowest impact on the environment as a whole.

IMPORTANT NOTE

Unless the best option is self-evident (i.e. results in the lowest impact for all considerations), you will need to use professional judgement to decide which option is the best overall. This judgement should be made taking into account the considerations described in the H1 guidance notes and may require decisions about the relative importance of environmental considerations. The operator should submit a response to the Regulator that describes how the decision has been made. The following page provides a structure which may be used to summarise the decision-making process.

TO CONTINUE WITH STEP 4, PRESS "NEX



Compare the Options

Review the graphs and summary data to rank the options according to environmental impact

Is the best Option self-evident?

i.e. results in the lowest impact in all environmental considerations

No

Is cost information required before the Best Available Technique can be selected?
If yes, continue to Part 5, after resolving cross media conflicts (next page) where relevant.

No

Compare the Options

Review the graphs and summary data to rank the options according to environmental impact

Is the best Option self-evident?

i.e. results in the lowest impact in all environmental considerations

No

Is cost information required before the Best Available Technique can be selected?
If yes, continue to Part 5, after resolving cross media conflicts (next page) where relevant.

No



Resolve Cross Media Conflicts

Environmental Consideration	Importance	Comments / Justification
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Releases to Air	Long Term:	
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Short Term:	
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Deposition to Land:	
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Releases to Water	Long Term:	
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Short Term:	
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Visual:	
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POCP:	
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GWP:	
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Disposal of Waste:	
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Provide a description of how cross media conflicts have been resolved:

This will require reasoned judgement, with reference to any decisions or assumptions made over the relative importance of different environmental impacts. See H1 for requirements, guidelines and examples to assist in the process. You may submit this information

Location or reference to information on resolution of cross media conflicts:

Present a summary of the final ranking of options in the table below:



Number	Title	Ranking
1	Storage	
2	Shredding / Screening / loading	

Resolve Cross Media Conflicts

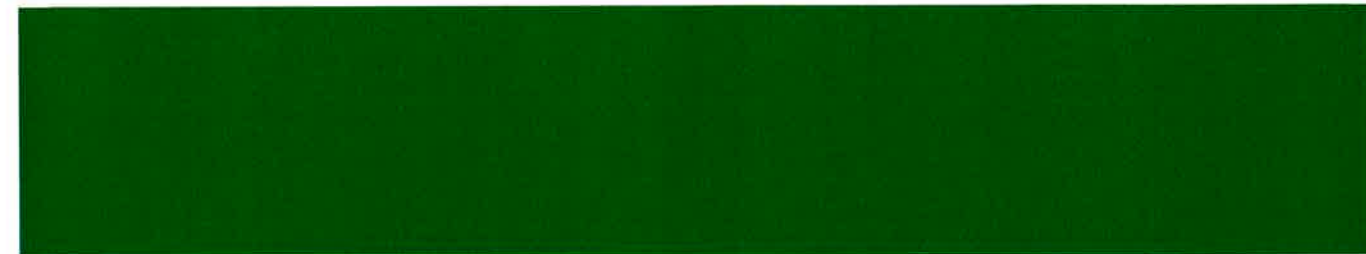
Environmental Consideration Importance Comments / Justification

Releases to Air	Long Term:		
	Short Term:		
Deposition to Land:			
Releases to Water	Long Term:		
	Short Term:		
Visual:			
POCP:			
GWP:			
Disposal of Waste:			

Provide a description of how cross media conflicts have been resolved:

This will require reasoned judgement, with reference to any decisions or assumptions made over the relative importance of different environmental impacts. See H1 for requirements, guidelines and examples to assist in the process. You may submit this information

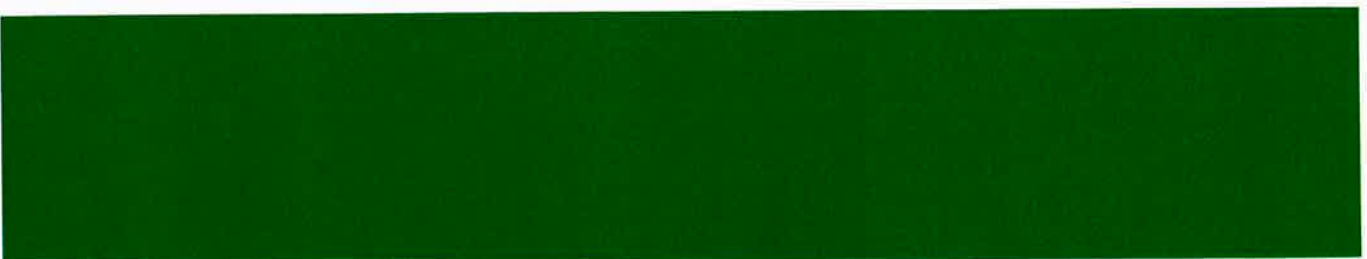
Location or reference to information on resolution of cross media conflicts:



Option Ranking

Present a summary of the final ranking of options in the table below:

Number	Title	Ranking
1	Storage	
2	Shredding / Screening / loading	



Summary of Option Appraisal

You have now completed all of the steps in this software for appraisal of BAT.

Finally, print all of the information and submit with your application. Remember to include any supplementary information and reports that you have had made reference to during the assessment procedure.

