

Reference Information - Environment Agency H1 Database

File Edit Window Help

Custom Toolbars

Reference Information

Please complete the following information:

Company Name:

Location:

Permit Number:

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.

Please note that before the import can take place any data that already exists in this copy of the tool will be removed.

Import Utility

Type here to search

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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 Parts 1, 2 and 3 only
- b) to conduct a costs/benefits OPTIONS APPRAISAL to determine BAT for selected releases from a facility Do Parts 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 assess the environmental impact of trade effluent emissions to sewer from the proposed truck washing operation at the existing Etex Plasterboard Manufacturing Site.

- e.g. "To appraise several candidate options for the prevention and minimisation of releases to air of NOx and SO2 for a new energy from waste plant, in order to select BAT"
- or "To appraise the costs and benefits of applying indicative BAT to further control BOD discharged to water at an existing paper mill"
- or "To assess the existing environmental impact of all emissions from all activities within an installation for the production of cement, prior to investigating further controls."
- or "To assess the environmental impact of all emissions from all activities within an ammonia production plant to demonstrate that the proposed BAT should not cause significant pollution"

Scope of Environmental Assessment

List the activities included in the assessment

This should include all the activities in your permit, broken down into the basic process steps, such as: raw materials storage, handling, processing, emission control, waste treatment etc. as appropriate. See H1 for guidance and use the comments box below to provide any additional information.

Number	Activity
e.g. raw materials handling, pre-treatment, charging, conversion, purification, waste treatment, effluent treatment, gas cleaning	
1	To assess the environmental impacts of effluents to sewer
2	

-Activities:
Add Delete

Comments:

Water Discharge Locations

Please define the Final Discharge Locations for Releases to Water

Are there any Water emissions? Yes No Click the Add button below

Use the 'Add' button below to list all final discharge points.
For releases to sewer, this should be the point of discharge from the sewage treatment works.
N.B. For Riverine discharges (River, Upper Estuary) you only need enter the River description and flow once. Further details of individual releases can be entered on the next page. For Lower Estuary or Coastal discharges, separate Discharge Locations must be added here for each release point.

Number	Description	Final Discharge Category	River/Freshwater Flow Rate*
e.g.	River Trent at Derby	R	400
1	Severn Estuary	ME	107

Discharge Locations:

* For Saltwater discharges (e.g C or LE discharge types) see next page

Water Release Points

Please define your Release Points for Releases to Water

Number	Description	Location or Grid Reference	Activity or Activities	Final Discharge Point	Discharge via Sewer?	Mean Effluent Flow Rate m3/s	Effluent Flow Rate [5% Exceeded]
e.g. W1	Discharge from ETP into River			1	No	5	10
1	F2	Discharge from Portbury Wharf		1 Severn Estuary	Yes	0.55	0

Release Points:

Comments:

Water Emissions Inventory

Please list all Substances released to Water for each Release Point identified in the previous page.

Which type of assessment method are you using?
(See help box & HT Annex D for information) Continue with the method below.

Method:
Reference:

Number	Substance	Measurement Method	Operating Mode (if relevant)	Data relating to Long Term effects (EDS - Annual Averages)		Data relating to Short Term effects (EDS - Max Allowable Conc.)		Annual Rate kg/yr	Sewage Treatment Factor	Benchmark Conc. mg/l
				Conc. mg/l	Measurement Basis	Conc. mg/l	Measurement Basis			
e.g.	chromium	Estimated	continuous	0.20	annual avg	0.20	15 minute	380	1	250
1	Benzene	Estimated	100	0.01	Annual Avg	0.01	15 min	1	1	

Substances: Add Delete Copy

Comments:

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
e.g.	natural gas	70,000				
1	Electricity from public supply	88352	2.40	212,045	0.17	35,199
2	Natural Gas	394931	1.00	394,931	0.19	75,037
3	Gas oil	1202	1.00	1,202	0.25	301

Energy Sources:
Add Delete Copy

Comments:

Raw Materials

Please list all Raw Materials Consumed:

Number	Material	Annual Consumption	Units
e.g.		50,000	
1	Klubersynth Oil	11000	litres (l/yr)
2	Brake Cleaner Aerosol	288	litres (l/yr)
3	Trilow Lubricant Aerosol	216	litres (l/yr)
4	Essolube Lubricant Oil	180	litres (l/yr)
5	Rocol Belt Spray	151	litres (l/yr)
6	Aquarius Fluid (Oil)	50	litres (l/yr)
7	Paraffin Wax Emulsion	1200	tonnes/year
8	Potassium Sulphate	710	tonnes/year
9	Millofoam Sulphate	500	tonnes/year
10	Texten Foam	100	tonnes/year
11	Retardent Liquid	48	tonnes/year
12	Retarder Powder	3	tonnes/year
13	Fluplast	2100	tonnes/year
14	Glue	140	tonnes/year
15	Diesel	500000	litres (l/yr)
16	Nuto hydraulic Fluid	2059	litres (l/yr)
17	Spartan Lubricating Oil	1305	litres (l/yr)
18	Stucco (gypsum)	450000	tonnes/year
19	Starch	3000	tonnes/year
20	Vermiculite	3000	tonnes/year
21	Dextrose	250	tonnes/year
22	Unirex Lubricating Grease	144	Kilos (kg/yr)
23	Milcot K68	225	litres (l/yr)

Raw Materials: Add Delete Copy

Comments:

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	Separate H1 Assessment completed for emissions to air
No	<input type="checkbox"/> Deposition from Air to Land	Not Required
Yes	<input checked="" type="checkbox"/> Water	
No	<input type="checkbox"/> Waste	Not Required
No	<input type="checkbox"/> Visual	Not Required
No	<input type="checkbox"/> Ozone Creation	Not Required
No	<input type="checkbox"/> Global Warming	Not Required

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

Local Environmental Quality - Environment Agency H1 Database

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)

Separate H1 Assessment completed for emissions to air

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

As above

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?

Total Pet. Hydrocarbons <0.01mg/l (assessed as Benzene)
Sulphate 1090mgSD4/l (no EQS for discharges to Estuaries & Coastal waters)

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?

No

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)

Yes - Severn Estuary

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Water Impacts

Calculate Process Contributions of Emissions to Water

This table estimates the Process Contribution, calculated after dilution into the relevant surface water type for each emission to water listed in the inventory, according to the release point parameters input earlier. If you have more accurate data obtained through dilution modelling, this may be entered as indicated and will be used instead of the estimated PC.

Substance	Long Term			Short Term		
	EQS	PC	* Modelled PC	MAC	PC	* Modelled PC
	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
e.g.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Benzene (Severn Estuary)	8	0.0512		50	0	

Note that the Process Contribution shown for each substance is the sum of the individual process contributions of each point from which the substance is emitted. Process Contributions obtained from modelling data should incorporate all relevant release points and flow conditions.

* If you have valid dispersion modelling data available - please enter it here

Comments:

Water Impact Screening

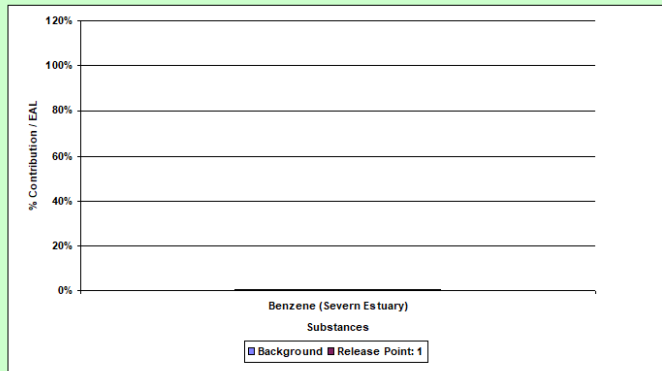
Screen out Insignificant Emissions to Water

This page displays the Process Contribution as a proportion of the EAL or EQS. Emissions with PC's that are less than the criteria indicated may be screened from further assessment as they are likely to have an insignificant impact.

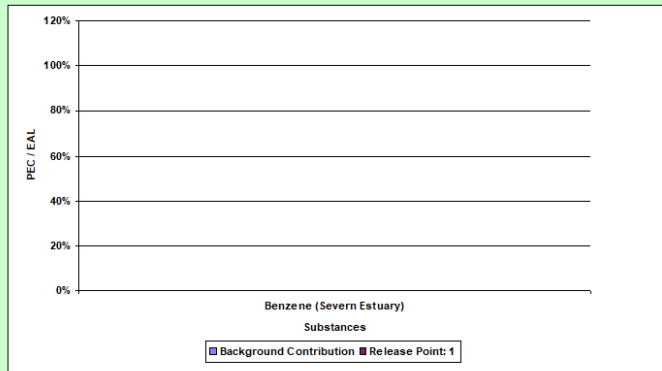
Substance	Long Term	Short Term	Long Term		Short Term			
	EQS µg/l	MAC µg/l	PC µg/l	% PC of EQS %	PC µg/l	% PC of MAC %	> 4% of MAC?	
Benzene (Severn Estuary)	8	50	0.05	0.64	No	0.00	0	No

Comments:

Water Long Term Effects - Comparison by Substance



Short Term Water - Substance Comparison



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: If yes, identify the substances concerned and improvements that are needed to at least meet the statutory requirement
- Environmental Quality Standards (air and water): If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modeling and/or pollution controls are needed. Ensure that the relevant EDS reference conditions are applied.
- Environmental Assessment Levels: If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modeling 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.