

Air Emissions Inventory

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

				Data relating to Long Term effects Data relating to Short Term effects							
Numbe	r Substance	Meas'ment Method	Operating Mode (% of	Conc.	Release Rate	Meas'ment Basis	Conc.	Release Rate	Meas'ment Basis	Annual Rate	ELV Conc.
				mg/m3	g/s		mg/m3	g/s		tonne/yr	mg/m3
1	Nitrogen Dioxide	Periodic*	90.0%	165.9	0.190232	test average	165.9	0.190232	test average	5.3992	282.50
2	Carbon monoxide	Estimated*	90.0%	250.0	0.286667	factory data	250.0	0.286667	factory data	8.1363	300.00
3	Particulates (PM10) (Annual Mean)	Periodic*	90.0%	13.9	0.015939	test average	13.9	0.015939	test average	0.4524	56.50

Measurement method: * provide detail in comments box

Comments:

Air Impacts

Calculate Process Contributions of Emissions to Air

This table estimates the Process Contribution (PC), calculated as the maximum ground level concentration for each emission listed in the inventory, according to the release point parameters input earlier. If you have more accurate data obtained through dispersion modelling, this may be entered as indicated and will be used instead of the estimated PC.

			Long Term -			Short Term	
Numl	per Substance	EAL	PC	* Modelled PC	EAL	PC	Modelled PC
		μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3
1	Nitrogen Dioxide	40	1.73		200	46.6	20.07
2	Carbon monoxide		2.61		10000	70.2	
3	Particulates (PM10) (Annual Mean)	40	0.145			3.91	

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.

* State the location of any detailed air dispersion modelling and also the main assumptions:

Comments

See additional information - Air Dispersion Model

Air Impact Screening Stage

Screen out Insignificant Emissions to Air

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

					Long Term —			Short Term	
Nur	mber Substance	Long Term EAL	Short Term EAL	PC	% PC of EAL	> 1% of EAL?	PC	% PC of EAL	> 10% of EAL?
		μg/m3	μg/m3	μg/m3	%		μg/m3	%	
1	Nitrogen Dioxide	40.0	200	1.73	4.32	Yes	20.1	10.0	Yes
2	Carbon monoxide	-	10,000	2.61	-		70.2	0.702	No
3		40.0	-	0.145	0.362	No	3.91	-	
	(Annual Mean)								

Air Impact Modelling Stage Two Screening

Identify need for Detailed Modelling of Emissions to Air

This page displays the Process Contributions in relation to the backgound pollutant levels and the EAL or EQS. You should use this information to decide whether to conduct detailed modelling. Note that releases that are insignificant are not shown as they are screened from further assessment. Also complete this page if you have already done detailed modelling.

	, , , , , , , , , , , , , , , , , , , ,	J			Long ⁻	Term —			Short Term	
Numb	er Substance	Air Bkgrnd Conc. µg/m3	PC µg/m3	% PC of headroom (EAL -	PEC mg/m3	% PEC of EAL %	% PEC of EAL >=70?	PC µg/m3	% PC of headroom (EAL - Bkgrnd)	% PC of headroom >=20?
1	Nitrogen Dioxide	4.598032	1.73	4.88	6.33	15.9	No	20.1	10.6	No

Air Impact Modelling Assessment

See guidelines in H1 Annex F section entitled "Decide if you need detailed air modelling.

Describe here the justification for whether detailed modelling is, or is not required for any of the releases. Refer to the quidelines in H1 Annex F

Air dispersion model - Lakes Environmental Screen View v4.0.1

Describe source of background information:

Average wind speed data - Met Office / BRE Emissions data - Envirocare report dated 8th May 2015

Document Reference of detailed modelling work:

HLC (Wood Products) Upwood - Air Dispersion Model

Deposition to Land from Air

Number Substance	% PC of EAL	Insignificant?	Decision whether to screen as insignificant Reason (See section "Deposition of air emissions onto land/Screen out insignificant emissions" of Annex F in H1).
1 Nitrogen Dioxide	4.32	standa	nort-term PC is less than 20% of the short-term environmental ards minus twice the long-term background concentration ing-term PEC is less than 70% of the long-term environmental ards
2 Carbon monoxide	-	Yes	
3 Particulates (PM10) (Annual Mean)	0.362	standa	nort-term PC is less than 20% of the short-term environmental ands minus twice the long-term background concentration ing-term PEC is less than 70% of the long-term environmental ands

For those emissions not screened as insignificant, describe the location of any further assessment here:

Visual Impacts

the visual impacts of plumes generated from the release points	
Can ANY of the Options generate a visible plume?	No
Can any of the release points generate a Visible Plume?:	Yes
For what % of daylight hours per year does the Plume extend beyond he facility boundary?:	<5%
Refer to the guidance in Annex A and assign a level of significance:	Insignificant
Provide any supporting evidence below	

	l Assessment

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 follow	ving:
	If yes, identify the substances concerned and improvements that are needed to at least meet the statutory requirement
(air and water):	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.
	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 or	n 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.