	Air Release Poi	nts					
Please	define your Release Points	for Releases to Air					
Are there any Air emissions?			Yes				
Numbe	r Description	Location or Grid Reference	Activity or Activities	Effective Height	Efflux Velocity Total Flow		
				metres	m/s	m3/hr	
1	Boiler 1	See Figure4	Biogas combustion (AD)		0	5 508	
2	Boiler 2	See Figure4	Biogas combustion (AD)		0	5 508	
3	Boiler 3	See Figure4	Biogas combustion (AD)		0	5 572	
	Boiler 4	See Figure4	Biogas combustion (Den	non)	0		

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

	r Substance	Meas'ment Method	Operating Mode (% of	Data relating to Long Term effects Data relating to Short Term effects							
Numbe				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		100.0%								
2	Nitrogen Dioxide (Ecological - Daily		100.0%								
-	Mean)										
3	Sulphur Dioxide (15 Min Mean)		100.0%								
4	Sulphur Dioxide (1 Hour Mean)		100.0%								
5	Sulphur Dioxide (24 Hour Mean)		100.0%								
6	Sulphur Dioxide (Other Ecology)		100.0%								
	Comments: Nitrogon diaxide converted from NOx ELVc										

Measurement method: \* provide detail in comments box

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

			Operating	Data relating to Long Term effects Data relating to Short Term effects							
Number	r Substance	Meas'ment Method	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	Estimated*	100.0%	175.0	0.027806		87.5	0.013903		0.876	9
2	Nitrogen Dioxide (Ecological - Daily	Estimated*	100.0%	250.0	0.039722		250.0	0.039722		1.252	7
	Mean)										
3	Sulphur Dioxide (15 Min Mean)	Estimated*	100.0%	200.0	0.031778		200.0	0.031778		1.002	1
4	Sulphur Dioxide (1 Hour Mean)	Estimated*	100.0%	200.0	0.031778		200.0	0.031778		1.002	1
5	Sulphur Dioxide (24 Hour Mean)	Estimated*	100.0%	200.0	0.031778		200.0	0.031778		1.002	1
6	Sulphur Dioxide (Other Ecology)	Estimated*	100.0%	200.0	0.031778		200.0	0.031778		1.002	1
			Com	monte Nite	ogon dioxid	to convorted					

Data relating to Long Term effects Data relating to Short Term effects

Measurement method: \* provide detail in comments box

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

			Operating	Data relati	ng to Long						
Number	r Substance	Meas'ment Method	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	Estimated*	100.0%	175.0	0.024694		87.5	0.012347		0.7788	8
2	Nitrogen Dioxide (Ecological - Daily	Estimated*	100.0%	250.0	0.035278		250.0	0.035278		1.1125	5
	Mean)										
3	Sulphur Dioxide (15 Min Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222		0.8900	)
4	Sulphur Dioxide (1 Hour Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222		0.8900	)
5	Sulphur Dioxide (24 Hour Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222		0.8900	)
6	Sulphur Dioxide (Other Ecology)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222		0.8900	)
			Com	monte: Nite	ogon diovid	to converted					

Data relating to Long Term effects Data relating to Short Term effects

Measurement method: \* provide detail in comments box

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

	er Substance		Operating Mode (% of	Data relati	ng to Long						
Number		Meas'ment Method		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	Estimated*	100.0%	175.0	0.024694		87.5	0.012347		0.7788	
2	Nitrogen Dioxide (Ecological - Daily	Estimated*	100.0%	250.0	0.035278		250.0	0.035278	Daily Mean	1.1125	
	Mean)										
3	Sulphur Dioxide (15 Min Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222	15 Min	0.8900	
									Mean		
4	Sulphur Dioxide (1 Hour Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222	1 Hr Mean	0.8900	
5	Sulphur Dioxide (24 Hour Mean)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222	24 Hr Mean	0.8900	
6	Sulphur Dioxide (Other Ecology)	Estimated*	100.0%	200.0	0.028222		200.0	0.028222		0.8900	
	Commenter Nitrogon disvide converted from NOV ELVa										

Measurement method: \* provide detail in comments box

### **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	
Number 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	11.5		200	151	
	2	Nitrogen Dioxide (Ecological - Daily Mean)	30	16.4		75	430	
	3	Sulphur Dioxide (15 Min Mean)		13.1		266	344	
	4	Sulphur Dioxide (1 Hour Mean)		13.1		350	344	
	5	Sulphur Dioxide (24 Hour Mean)		13.1		125	344	
	6	Sulphur Dioxide (Other Ecology)	20	13.1			344	

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 Comments: modelling and also the main assumptions:

## Air Impact Screening Stage One

#### 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 -	
Ν	lumber	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 Nit	trogen Dioxide	40.0	200	11.5	28.6	Yes	151	75.3	Yes
	2 Nit	trogen Dioxide	30.0	75.0	16.4	54.5	Yes	430	573	Yes
	(E Me	cological - Daily ean)								
	3 Su	Iphur Dioxide (15	-	266	13.1	-		344	129	Yes
	Mi	n Mean)								
	4 Su	Iphur Dioxide (1	-	350	13.1	-		344	98.4	Yes
	Ho	bur Mean)								
ſ	5 Su	Iphur Dioxide (24	-	125	13.1	-		344	275	Yes
	Hc	our Mean)								
	6 Su	Ilphur Dioxide	20.0	-	13.1	65.3	Yes	344	-	
	(O	ther Ecology)								

### 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.

					Long T	Short Term				
Number Substance		Air Bkgrnd Conc.	PC	% PC of headroom (EAL -	PEC	% PEC of EAL	% PEC of EAL >=70?	PC	% PC of headroom (EAL - Bkgrnd)	% PC of headroom >=20?
		µg/m3	µg/m3		mg/m3	%		µg/m3		
									·	
1	Nitrogen Dioxide	10.6	11.5	38.9	22.0	55.1	No	151	84.2	Yes
2	Nitrogen Dioxide (Ecological - Daily Mean)	16	16.4	117	32.4	108	Yes	430	1,000	Yes
3	Sulphur Dioxide (15 Min Mean)	1.6	13.1	-	0	-		344	131	Yes
4	Sulphur Dioxide (1 Hour Mean)	1.6	13.1	-	0	-		344	99.3	Yes
5	Sulphur Dioxide (24 Hour Mean)	1.6	13.1	-	0	-		344	282	Yes
6	Sulphur Dioxide (Other Ecology)	1.6	13.1	71.0	14.7	73.3	Yes	344	-	

Deposition to Land from Air Base Option

## **Deposition to Land from Air**

#### With reference to H1 Guidance, describe assessment of deposition below:

Number Subst	ance	% PC of EAL	Insignificant?
		%	
1 Nitrogen I	Dioxide	28.6	No
2 Nitrogen I	Dioxide (Ecological - Daily Mean)	54.5	No
3 Sulphur D	Niavida (15 Min Maan)		No
5 Sulphul L		-	INU
4 Sulphur D	vioxide (1 Hour Mean)	-	No
5 Sulphur D	lioxide (24 Hour Mean)	-	No
6 Sulphur D	vioxide (Other Ecology)	65.3	No
L			

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

### Decision whether to screen as insignificant

Reason (See section "Deposition of air emissions onto land/Screen out insignificant emissions" of Annex F in H1).