Attachment 4

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point Ref. Nº:	AEP 1
Source of Emission:	Exhaust Stack AEP 1 as identified on the Flow Diagram attached – Drawing No: 029 Rev 4 – Flow Diagram
Location:	CHP Exhaust Stack
Grid Ref. (12 digit, 6E,6N):	E146351 N42434
Vent Details Diameter: Height above Ground(m):	Stack height: 15m Stack tip diameter: 0.30
Date of commencement:	N/A

Characteristics of Emission:

(i) Volume to be emitted: Max Volume Flow (Nm^3/hr): 4,200 (1)
Max Vol Flow (Am^3/hr): 4,968

1 - denotes referencing conditions for emissions point AEP1 are 273.15K,101.3KPa,dry gas,5% O_2)

Average/day	n/a Nm^3/d	Maximum/day	100,800 Nm^3/d
Maximum rate/hour	4,200 Nm^3/h	Min efflux velocity	n/a 19.52 $m.sec^{-1}$

(ii) Other factors

Temperature	179.85ºC 453 K

For Combustion Sources:
Volume terms expressed as : ☐ wet. ☑ dry. 5 $\%O_2$

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 365 day/yr

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point Ref. Nº:	AEP 2
Source of Emission:	Exhaust Stack AEP2 as identified on the Flow Diagram attached – Drawing No: 029 Rev 4 – Flow Diagram
Location:	Biofilter Fan Exhaust
Grid Ref. (12 digit, 6E,6N):	E 146342 N 42420
Vent Details Diameter: Height above Ground(m):	Stack height: 3m Stack tip diameter: 132m^2
Date of commencement:	N/A

Characteristics of Emission:

(i) Volume to be emitted: Max Volume Flow (Nm^3/hr): 18,960 (2)
Max Vol Flow (Am^3/hr): 20,349^2

(2) - denotes referencing conditions for emissions point AEP2 is 293K,101.3KPa,wet gas, 20.9% O_2)

Average/day	n/a Nm^3/d	Maximum/day	455,040 Nm^3/d
Maximum rate/hour	18,960Nm^3/h	Min efflux velocity	0.039 n/a m.sec^{-1}

(ii) Other factors

Temperature	19.85 °C	293K
For Combustion Sources: Volume terms expressed as :	☑ wet. ☐ dry.	20.9 %O_2

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 365 day/yr

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: AEP 1

Parameter	Prior to treatment(1)				Brief description of treatment	As discharged(1)					
	mg/Nm^3		kg/h			mg/Nm^3		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Exhaust gas volume (wet)						4.449					
Exhaust gas volume (dry)						3.933					
Exhaust gas mass flow rate (wet)								5.721		50,115.96	
Exhaust gas mass rate (dry)								5.291		46,349.16	

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: AEP 2

Parameter	Prior to treatment[1]				Brief description of treatment	As discharged[1]					
	mg/Nm^3		kg/h			m^3/hr / mg/Nm^3		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Reception building extraction Fibre Store						11,960 m^3/hr 7,000 m^3/hr					
Total extraction through OCU 1						**18,960 m^3/hr**					