

**Air Emissions from State of the Art Facilities: A Comparison of A-7
to Existing Facilities and Range of Potential Values**

Contaminant	Units*	A-7 Guideline	Typical Facility Emissions (from existing US facilities)	Covanta ¹	Amsterdam NL ²	New Ebara Japan ³	Range of Values (European Commission Report) ⁴
Dioxins (TEQ)	ng /m ³	0.08	0.02	0.01	0.018	0.001	0.0002-0.07
Lead	ug/m ³	142	44.5	20.0	11 ⁵	3.1-41	<2-40
Mercury	ug/m ³	20	10	5.0	1.8	10	0.2-46
Cadmium	ug/m ³	14	4.9	2.0	0.55	5.5	0.3-2.7
NOx	mg/m ³	207	185.7	50.0	52	4.2-52.3	18.3-165
SO ₂	mg/m ³	56	10.8	10.0	3.7	2.9	0.2-18
TOC	mg/m ³	N.DEF ⁶	0.72	N.DEF	N.DEF	N.DEF	0.1-4.5
HCl	mg/m ³	27	10	10.0	0.27	<1.7	0.1-5.5
Particulate matter	mg/m ³	17	6.9	3.0	0.9	<1	0.1-3.7

*All units have been corrected to 11%O₂ 101.3 kPa and 25°C

The Table above illustrates the limits set out in the A-7 guideline, the typical emissions from US facilities in operation several years ago, as well as an indication of what can be achieved.

¹ Values are estimates based largely on nationwide averages using conventional technology except for NOx which is using Covanta's proprietary technology and other post combustion technology.

² 2005 Annual Report:

http://www.afvalenergiebedrijf.nl/main.asp?action=display_data&name=pagina&item_id=73

³ Data provided by vendor

⁴ European Commission, Integrated Pollution Prevention and Control Reference Document on the Best Available Techniques for Waste incineration, August 2006, pg. 156:

http://www.seas.columbia.edu/earth/wtert/sofos/European_Commission_FileUpload.8905.en.pdf

⁵ Data provided by vendor

⁶ N.DEF = No data for this value