


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>4114</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Cirrus Environmental Solutions Ltd</h3> <p>Issue No: 007 Issue date: 01 July 2009</p>	
	<p>Business & Innovation Centre Wearfield Enterprise Park East Sunderland SR5 2TA</p>	<p>Contact: Ms R Bowman Tel: +44 (0)191 516 6960 Fax: +44 (0)191 516 6961 E-Mail: rachel.bowman@cirrusenvironmental solutions.co.uk Website: www.cirrusenvironmentalsolutions.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Cirrus Environmental Solutions Ltd Business & Innovation Centre Wearfield Enterprise Park East Sunderland SR5 2TA</p> <p>Local contact Ms R Bowman Tel: +44 (0)191-516 6960 Fax: +44 (0)191-516 6961 Email: rachel.bowman@ cirrusenvironmentalsolutions.co.uk</p>	<p>Support Functions: Quality System Quality Audit Administration</p> <p>Sampling and Testing: Stack emissions Testing Physical Testing</p>	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer sites requiring Stack Emissions Testing	Stack Emissions Testing	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Filter Papers only	<u>Physical Testing</u>		
	Weighing of Particulate Matter	BS EN 13284-1:2002 (SOP/em/doc4) BS ISO 9096:2003 (SOP/em/doc4)	A A
Testing of Stack Emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 accredited laboratory</u>	National, International and other recognised standards using documented in-house methods	
	Hydrogen Chloride	US EPA Method 26A (SOP/em/doc10)	B
	Hydrogen Fluoride	US EPA Method 26A (SOP/em/doc10)	B
	Ammonia	US EPA Method 26A (SOP/em/doc10)	B
	<u>Sampling and On-Line Analysis</u>		
	Oxygen	ISO 12039:2001 (SOP/em/doc3)	B
	Oxides of Nitrogen	ISO 10849:1996 (SOP/em/doc3)	B
	Carbon monoxide	ISO 12039:2001 (SOP/em/doc3)	B
Sulphur dioxide	ISO 7935:1992 (BS 6069-4.4:1993) (SOP/em/doc3)	B	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 accredited laboratory</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions (where required) to meet the requirements of the Environment Agency (MCERTS) Performance Standard	
	Total Particulate Matter (0 to 50 mg/m ³)	BS EN 13284-1:2002 (SOP/em/doc5 and SOP/em/doc7)	B
	Total Particulate Matter (20 to 1000 mg/m ³)	BS ISO 9096:2003 (SOP/em/doc5 and SOP/em/doc7)	B
	Hydrogen Chloride	BS EN 1911:1998 (SOP/em/doc9)	B
	Halides and Halogens: Hydrogen Bromide Chlorine Bromine	US EPA Method 26A (SOP/em/doc10)	B
	Sulphur Dioxide	BS EN 14791:2005 (SOP/em/doc17)	B
	Metals	BS EN 14385:2004 (SOP/em/doc11)	B
	Mercury	BS EN 13211:2001 (SOP/em/doc11)	B
	Dioxins and furans	BS EN 1948-1:2006 (SOP/em/doc12)	B
	Dioxin like Polychlorinated Biphenyls (PCBs)	BS EN 1948-1:2006 (SOP/em/doc12)	B
Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (SOP/em/doc18)	B	
Formaldehyde	US EPA Method 316 (SOP/em/doc13)	B	



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 accredited laboratory</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions (where required) to meet the requirements of the Environment Agency (MCERTS) Performance Standard (cont'd)	
	Speciated Volatile Organic Compounds (VOCs) - activated carbon and solvent desorption method (Dry stack only)	BS EN 13649:2002 (SOP/em/doc6)	B
	<u>Sampling and On-Line Analysis</u>		
	Pressure, Temperature and Velocity	BS EN 13284-1:2002 BS ISO 90936:2003 (SOP/em/doc1)	B
	Water Vapour	BS EN 14790:2005 (Procedure SOP/em/doc21)	B
	Carbon Monoxide*	BS EN 15058:2006 (SOP/em/doc20 - NDIR analyser)	B
	Carbon Dioxide*	BS ISO 12039:2001 (SOP/em/doc20 - NDIR analyser)	B
	Oxides of Nitrogen*	BS EN 14792:2005 (SOP/em/doc20 - Chemiluminescence analyser)	B
Oxygen*	BS EN 14789:2005 (SOP/em/doc20 - Validated Zirconium cell analyser)	B	
Total Gaseous Organic Carbon* (TOC/VOC) (0 to 20 mg/m ³)	BS EN 12619:1999 (SOP/em/doc2 - FID analyser)	B	



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</u> (cont'd) Total Gaseous Organic Carbon* (TOC/VOC) (20 to 500 mg/m ³)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions (where required) to meet the requirements of the Environment Agency (MCERTS) Performance Standard (cont'd) BS EN 13256:2002 (SOP/em/doc2 - FID analyser)	B
END			

* - The scale range of the analyser used for this test must be that detailed on its current MCERTS certificate or a range validated by the organisation to meet MCERTS requirements.