

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	Euro Environmental Management Ltd (trading as Fitz Scientific)	
	Issue No: 030 Issue date: 27 March 2012	
	Unit 35 Boyne Business Park Drogheda Co Louth Ireland	Contact: Mr G Fitzpatrick Tel: +00 353 41 984 5440 Fax: +00 353 41 941198 E-Mail: info@fitzsci.ie Website: www.fitzsci.ie
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit 35 Boyne Business Park Drogheda Co Louth Ireland	Local contact Damien O'Reilly Tel: +00 353 41 984 5440 Fax: +00 353 41 984 6171	Support Functions: Quality System Quality Audit Administration Sampling and Testing Environmental Analysis Stack Emissions Testing	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Customer Sites requiring Stack Emissions Testing	Local contact Geoff Fitzpatrick Tel: +00 353 41 984 5440 Fax: +00 353 41 984 6171	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 and rinse solutions	<u>Physical Testing</u> Weighing of Particulate Matter	BS EN 13284-1:2002 (SOP 108)	A
SOILS	<u>Chemical Testing</u> Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Nickel Selenium Silver Strontium Thallium Vanadium Zinc	SOP 224 using ICP-OES	A
	Available lime	SOP 304	A
	Available phosphorus	SOP 301 using Morgans P test and colorimetry (based on standard soil analysis for REPS, Dept of Agriculture, Nov 2004)	A
	Exchangeable magnesium and exchangeable potassium	SOP 303 using Morgans extractant and ICP-OES (based on standard soil analysis for REPS, Dept of Agriculture, Nov 2004)	A
	pH	SOP 300 using meter	A
	Organic matter (by loss on ignition at 500 °C)	SOP 333	A



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WATERS	<u>Chemical Tests</u>		
Potable Water, surface water, groundwater, industrial effluent and sewage effluent	Elements: Antimony Arsenic Barium Beryllium Boron Cadmium Caesium Chromium Cobalt Copper Gallium Lead Lithium Manganese Nickel Rubidium Selenium Strontium Thallium Uranium Zinc	SOP 177 by ICP-MS	A
	Mercury	SOP 178 by ICP-MS	A
Potable water, surface water, groundwater and industrial effluent	Aluminium Iron Vanadium	SOP 177 by ICP-MS	A
Potable water only	Cobalt Silver Tin	SOP 177 by ICP-MS	A
	Total Organic Carbon (TOC)	SOP 316	A
Potable Water, surface water, groundwater, industrial effluent and sewage effluent	Alkalinity	SOP 102 by automated discrete analyser	A
	Ammonia	SOP 114 by automated discrete analyser	A
	Chloride	SOP 100 by automated discrete analyser	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable Water, surface water, groundwater, industrial effluent and sewage effluent (cont'd)	Colour	SOP 108 by automated discrete analyser	A
	Fluoride	SOP 115 by automated discrete analyser	A
	Nitrite	SOP 118 by automated discrete analyser	A
	Orthophosphate	SOP 117 by automated discrete analyser	A
	Silica	SOP 152 by automated discrete analyser	
	Total Oxidised Nitrogen (TON)	SOP 151 by automated discrete analyser	A
	Total Hardness	SOP 111 by automated discrete analyser	A
	Total phosphate	SOP 166 by automated discrete analyser	A
	Biochemical Oxygen Demand	SOP113	A
	pH	SOP 110	A
	Conductivity	SOP 112	A
	Turbidity	SOP 109	A
Potable waters, groundwater, surface water industrial and sewage effluents	Sulphate	SOP 119 by automated colorimetry	A
	Elements: Calcium Magnesium Potassium Sodium	SOP 184 by ICP-MS	A
Industrial effluent, surface and groundwater	Chemical Oxygen Demand	SOP 107	A
Surface Water and Groundwater	Nitrate	SOP 103 by automated colorimetry	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Industrial Effluent	Suspended solids	SOP 106 by gravimetry	A
Industrial effluent, surface and groundwater	Volatile Organic Compounds: Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform <i>n</i> -Butylbenzene <i>sec</i> -Butylbenzene <i>tert</i> -Butylbenzene Carbon tetrachloride Chlorobenzene Chloroform 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene <i>cis</i> -1,2-Dichloroethene <i>trans</i> -1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropene <i>cis</i> -1,3-Dichloropropene <i>trans</i> -1,3-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Naphthalene n-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane	SOP 154 by headspace GC-MS	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Industrial effluent, surface and groundwater (cont'd)	Volatile Organic Compounds: (cont'd) 1,1,2-Trichloroethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene <i>m/p</i> -Xylene <i>o</i> -Xylene	SOP 154 by headspace GC-MS (cont'd)	A
ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES			
Impinger solutions (hydrogen peroxide)	Sulphate	In-house procedure based on BS EN 14791:2005 using ion chromatography (IC) (SOP EM 190)	A
Impinger solutions (water)	Chloride	In-house procedure based on BS EN 1911:2010 using ion chromatography (IC) (SOP EM 190)	A
Impinger solutions (sodium hydroxide)	Fluoride	In-house procedure based on BS ISO 15713:2006 using ion chromatography (IC) (SOP EM 190)	A
FOOD	<u>Microbiological Tests</u>		
Food products, dairy products and environmental swabs	Detection and confirmation of salmonella species	In-house procedure SOP 455 using RAYAL ELISA (Optima) with confirmation on selective Agars and biochemical identification	A
	Detection and confirmation of Listeria species	In-house procedure SOP 456 using RAYAL ELISA with confirmation on selective Agars and biochemical identification	A



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Testing of Stack emissions to Atmosphere	<u>Sampling and On-Line analysis</u>	National, International and other recognised standards using documented In-House work instructions to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007	
	Carbon monoxide	ASTM D6348-03 (SOP 227- FTIR analyser)	B
	Nitric Oxide	ASTM D6348-03 (SOP 227 - FTIR analyser)	B
	Sulphur Dioxide	ASTM D6348-03 (SOP 227 - FTIR analyser)	B
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 MID's and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007	
	Total Particulate Matter (0 to 50 mg/m ³)	BS EN 13284-1:2002 (SOP 101)	B
	Total Particulate Matter (20 to 1000 mg/m ³)	BS ISO 9096:2003 (SOP 101)	B
	Hydrogen Chloride	BS EN 1911:2010 (SOP 148)	B
	Hydrogen Fluoride	BS ISO 15713:2006 (SOP 129)	B
	Sulphur Dioxide	BS EN 14791:2005 (SOP 167)	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 to meet the requirements of the Environment Agency (MCERTS) Performance Standard and to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007 (cont'd)	
	Metals	BS EN 14385:2004 (SOP 113)	B
	Mercury	BS EN 13211:2001 (SOP 152)	B
	Dioxins and Furans	BS EN 1948-1:2006 (SOP 147)	B
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (SOP 149)	B
	Speciated VOCs (carbon and other suitable tubes) (Dry Stacks only): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes	BS EN 13649:2002 (SOP 232)	B
	Formaldehyde (Dry stacks only)	BS EN 13649:2002 (SOP 232)	B
	<u>Sampling and On-Site analysis</u> Water Vapour	BS EN 14790:2005 (SOP 122)	B



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Testing of Stack emissions to Atmosphere	<u>Sampling and On-Line analysis</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007	
	Pressure, temperature and velocity	BS EN 13284-1:2002 (SOP 101)	B
	Carbon Monoxide*	BS EN 15058:2006 (SOP 161 - NDIR analyser)	B
	Oxygen*	BS EN 14789:2005 (SOP 161 and SOP 227 - Validated Zirconium cell analyser)	B
	Nitrogen Monoxide (NO)*	BS EN 14792:2005 (SOP 161 - Chemiluminescence analyser)	B
	Nitrogen Dioxide (NO ₂)*	BS EN 14792:2005 (SOP 161 - Chemiluminescence analyser)	B
	Carbon Monoxide (CO)*	EA TGN M22 (SOP 227 - FTIR)	B
	Nitric Oxide (NO)*	EA TGN M22 (SOP 227 - FTIR)	B
	Sulphur Dioxide (SO ₂)*	EA TGN M22 (SOP 227 - FTIR)	B
Total Gaseous Organic Carbon* (TOC/VOC) (20 - 500 mg/m ³)	BS EN 13526:2002 (SOP 156 - 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) (0 - 20 mg/m ³)	National, European, International and Environment Agency specified standards including MID's and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007 (cont'd) BS EN 12619:1999 (SOP 155 -FID analyser)	B
* - 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.			
END			