

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	Euro Environmental Management Ltd (trading as Fitz Scientific)	
	Issue No: 050 Issue date: 24 January 2018	
	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 (EM 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WATERS</p> <p>Potable water, surface water, groundwater, industrial effluent and sewage effluent</p>	<p><u>Chemical Tests</u></p> <p>Elements:</p> <ul style="list-style-type: none"> Antimony Arsenic Barium Beryllium Boron Cadmium Caesium Chromium Cobalt Copper Gallium Lead Lithium Manganese Nickel Rubidium Selenium Strontium Thallium Uranium Zinc 	<p>SOP 177 by ICP-MS</p>	<p>A</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WATERS (cont'd)</p> <p>Potable water</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Elements: Aluminium Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Caesium, Chromium, Cobalt, Copper, Gallium, Iron, Lead, Lithium, Manganese, Nickel, Rubidium, Selenium, Strontium, Thallium, Tin, Uranium, Vanadium, Zinc Silver</p>	<p>SOP 500 by ICP-MS</p>	<p>A</p>



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable water, surface water, groundwater and industrial effluent	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
Potable Water, surface water, groundwater and Industrial effluent	Total Organic Carbon (TOC)	SOP 316 using TOC Analyser	A
Potable Water, surface water, groundwater, industrial effluent and sewage effluent	Alkalinity	SOP 102 by automated discrete analyser	A
	Ammonia-N Ammonia (by calculation) Ammonium (by calculation)	SOP 114 by automated discrete analyser	A
	Chloride	SOP 100 by automated discrete analyser	A
Potable water, surface water, groundwater, industrial effluent and sewage effluent	Colour	SOP 108 by automated discrete analyser	A
	Fluoride	SOP 115 by automated discrete analyser	A
	Nitrite-N Nitrite (by calculation)	SOP 118 by automated discrete analyser	A
	Nitrate-N (by calculation) Nitrate (by calculation)	SOP 103 by automated colorimetry	A
	Orthophosphate	SOP 117 by automated discrete analyser	A
	Silica	SOP 152 by automated discrete analyser	



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable water, surface water, groundwater, industrial effluent and sewage effluent	Total Oxidised Nitrogen (TON)	SOP 151 by automated discrete analyser	A
	Total Hardness	SOP 111 by automated discrete analyser	A
	Total phosphate-P Phosphate (by calculation) Phosphorus Pentoxide (by calculation)	SOP 166 by automated discrete analyser	A
	Biochemical Oxygen Demand	SOP113	A
	pH	SOP 110	A
	Conductivity	SOP 112	A
	Turbidity	SOP 109	A
	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
Industrial Effluent	Suspended solids	SOP 106 by gravimetry	A
Trade (industrial) effluent	Total Kjeldahl Nitrogen	SOP 104 by digestion / titration	A
Potable water, surface water and groundwater	Bromate	SOP 125 by ion chromatography	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Potable water, surface water, effluent	<u>Chemical Tests</u> (cont'd) 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 1,1,2-Trichloroethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene	SOP 154 by headspace GC-MS	A



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<p>WATERS (cont'd) Potable water, surface water, groundwater and industrial effluent</p> <p>Potable water, surface water and groundwater</p> <p>ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES</p>	<p><u>Chemical Tests (cont'd)</u> Volatile Organic Compounds: <i>m/p</i>-Xylene <i>o</i>-Xylene 1,3,5-Trimethylbenzene</p> <p>Trichloroethene Vinyl chloride Trichlorofluoromethane 1,2-dibromo-3-chloropropane</p>	SOP 154 by headspace GC-MS	A
Impinger solutions (hydrogen peroxide)	Sulphate	In-house procedure based on BS EN 14791:2005 using ion chromatography (IC) (SOP 190)	A
Impinger solutions (water)	Chloride	In-house procedure based on BS EN 1911:2010 using ion chromatography (IC) (SOP 190)	A
Impinger solutions (sodium hydroxide)	Fluoride	In-house procedure based on BS ISO 15713:2006 using ion chromatography (IC) (SOP 190)	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD Food products, dairy products and environmental swabs	<u>Microbiological Tests</u>		
	Detection and confirmation of salmonella species	In-house procedure SOP 455 using Solus ELISA (Optima) with confirmation on selective Agars and biochemical identification	A
	Detection, confirmation and identification of Listeria species	In-house procedure SOP 456 using Solus ELISA with confirmation on selective Agars and biochemical identification	A
	Enumeration of Listeria species	In-house procedure SOP 480 based on BS EN ISO 11290-2:1998 using spread plate	A
	Enumeration of coliform organisms (presumptive)	In-house procedure SOP 451 based on BS EN ISO 4832:2006 using pour plate	A
	Enumeration of Enterobacteriaceae (presumptive)	In-house procedure SOP 454 based on BS EN ISO 21528-2:2004 using pour plate	A
	Enumeration of microorganisms – aerobic colony count at 30°C	In-house procedure SOP 457 based on BS EN ISO 4833-1:2013 using single pour plate	A
	Enumeration of β-glucuronidase positive E. coli	In-house procedure SOP 453 based on BS EN ISO 16649-2:2001 using pour plate	A
	Enumeration of coagulase positive staphylococci (Staphylococcus aureus and other species)	In-house procedure SOP 465 based on BS EN ISO 6888-1:1999 using spread plate	A
Enumeration of yeasts and moulds in products with water activity > 0.95	In-house procedure SOP 466 based on BS ISO 21527-1:2008 using spread plate	A	
Enumeration of Pseudomonas spp.(presumptive)	In house SOP 496 – based on BS EN ISO 13720:2010 using spread plate	A	



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FOOD	<u>Microbiological Tests (cont'd)</u>		
Food products, dairy products and environmental swabs (cont'd)	Enumeration of Bacillus cereus (presumptive)	In-house SOP 478 – based on BS EN ISO 7932:2004 using spread plate	A
Food and dairy products	Enumeration of yeasts and moulds in products with water activity ≤ 0.95	In-house procedure SOP 479 based on BS ISO 21527-2:2008 using spread plate	A
Potable (Mains) Water Bottled Mineral Water and Well Water	<u>Microbiological Tests</u> <u>Enumeration:</u>		
	<u>Clostridium perfringens (and spores), presumptive</u>	In house method SOP161 using Membrane Filtration method based on Environment Agency -The Microbiology of Drinking Water (2010) - Part 6	A
	<u>Enterococci</u>	In house SOP 153 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2012) - Part 5,	A
	<u>Pseudomonas aeruginosa, presumptive</u>	In house SOP 446 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2010) - Part 8	A
	<u>Total Coliforms</u> <u>E.Coli</u>	In house method SOP 157 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2009) - Part 4B, with confirmation by TNA	A
	<u>Total Bacterial Count at 22°C and 37°C</u>	In house method SOP 493 - Spread Plate Technique based on UK Environment Agency - The Microbiology of Drinking Water (2012) - Part 7	A



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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 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 (EM 227- FTIR analyser)	B
	Nitric Oxide	ASTM D6348-03 (EM 227 - FTIR analyser)	B
	Sulphur Dioxide	ASTM D6348-03 (EM 227 - FTIR analyser)	B
	<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 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	BS EN 13284-1:2002 (EM 101)	B
	Hydrogen Chloride	BS EN 1911:2010 (EM 148)	B
	Hydrogen Fluoride	BS ISO 15713:2006 (EM 129)	B
	Sulphur Dioxide	BS EN 14791:2017 (EM 167)	B
	Metals	BS EN 14385:2004 (EM 113)	B
Mercury	BS EN 13211:2001 (EM 152)	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 (cont'd)</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 (cont'd)	
	Dioxins and Furans	BS EN 1948-1:2006 (EM 147)	B
	Speciated VOCs (carbon and other suitable tubes) (Dry Stacks only): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes	PD CEN/TS 13649:2014 (EM 232)	B
	Formaldehyde (Dry stacks only)	PD CEN/TS 13649:2014 (EM 232)	B
	<u>Sampling and On-Site analysis</u>		
	Water Vapour	BS EN 14790:2017 (EM 122)	B
	Pressure, Temperature and Velocity (Point Velocity Method)	BS EN 16911-1:2013 (EM 255 - using differential pressure device (pitot tube) method)	
Carbon Monoxide*	BS EN 15058:2017 (EM 161 - NDIR analyser)	B	



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Testing of Stack emissions to Atmosphere (cont'd)	<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 (cont'd)	
	Oxygen*	BS EN 14789:2017 (EM 161) (EM 227 - Validated Zirconium cell analyser)	B
	Nitrogen Monoxide (NO)*	BS EN 14792:2017 (EM 161 - Chemiluminescence analyser)	B
	Oxides of Nitrogen (NO _x)*	BS EN 14792:2017 (EM 161 - Chemiluminescence analyser)	B
	Carbon Monoxide (CO)*	EA TGN M22 (EM 227 – Validated FTIR analyser)	B
	Nitrogen Monoxide (NO)*	EA TGN M22 (EM 227 – Validated FTIR analyser)	B
	Sulphur Dioxide (SO ₂)*	EA TGN M22 (EM 227 – Validated FTIR analyser)	B
	Carbon Dioxide (CO ₂)*	ISO 12039:2001 (EM 161 – NDIR analyser)	B
Total Gaseous Organic Carbon* (TOC/VOC) (0 - 1000 mg/m ³)	BS EN 12619:2013 (EM 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.



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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 (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, European, International and Irish Environmental Protection Agency specified standards and Documented In-House work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and DD CEN/TS 15675:2007/ IS EN 15259:2007	
	Total Particulate Matter	IS EN 13284-1: 2002 including Environment Agency (England) MID 13284-1 (EM 101)	B
	Hydrogen Chloride	IS EN 1911:2010 (EM 148)	B
	Hydrogen Fluoride	IS ISO 15713:2006 including Environment Agency (England) MID 15713 (EM 129)	B
	Sulphur Dioxide	IS EN 14791:2017 (EM 167)	B
	Metals	IS EN 14385:2004 including Environment Agency (England) MID 14385 (EM 113)	B
	Mercury	IS EN 13211:2001 including Environment Agency (England) MID 14385 (EM 152)	B
	Dioxins and Furans	IS EN 1948-1:2006 including Environment Agency (England) MID 1948 (EM 147)	B



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	Speciated VOCs (carbon and other suitable tubes) (Dry Stacks only): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes	PD CEN/TS 13649:2014 (EM 232)	B
	<u>Sampling and On-Site analysis</u>		
	Water Vapour	IS EN 14790:2017 (EM 122)	B
	Pressure, Temperature and Velocity (Point Velocity Method)	IS EN 16911-1:2013 (EM 255 - using differential pressure device (pitot tube) method)	B
	<u>Sampling and On-Line analysis</u>		
	Carbon Monoxide†	IS EN 15058:2017 (EM 161 - NDIR analyser)	B
Carbon Monoxide (CO)†	Environment Agency (England) TGN M22 (EM 227 – Validated FTIR analyser)	B	
Nitrogen Monoxide (NO)†	IS EN 14792:2017 (EM 161 - Chemiluminescence analyser)	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 Irish Environmental Protection Agency specified standards and Documented In-House work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and DD CEN/TS 15675:2007/ IS EN 15259:2007 (cont'd)	
	Oxides of Nitrogen (NO _x)*†	IS EN 14792:2017 (EM 161 - Chemiluminescence analyser)	B
	Nitrogen Monoxide (NO)†	Environment Agency (England) TGN M22 (EM 227 – Validated FTIR analyser)	B
	Sulphur Dioxide (SO ₂)†	Environment Agency (England) TGN M22 (EM 227 – Validated FTIR analyser)	B
	Carbon Dioxide (CO ₂)†	ISO 12039:2001 (EM 161 – NDIR analyser)	B
	Total Gaseous Organic Carbon† (TOC/VOC) (0 - 1000 mg/m ³)	IS EN 12619:2013 (EM 155 - FID analyser)	B

† - The scale range of the analyser used for this test must meet the specific requirements specified in the Irish Environmental Protection Agency document "AG2 Index of Preferred Methods"

END