

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2802 Accredited to ISO/IEC 17025:2017	Euro Environmental Management Ltd (trading as Fitz Scientific)	
	Issue No: 069 Issue date: 04 June 2021	
	Unit 35 Boyne Business Park Drogheda Co Louth Ireland	Contact: Mr G Fitzpatrick Tel: +00 353 41 984 5440 Fax: +00 353 41 941 198 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
Address Unit 1 Boyne Business Park Drogheda Co Louth Ireland Local contact Damien O'Reilly Tel: +00 353 41 984 5440 Fax: +00 353 41 984 6171	Testing Microbiological Analysis	B

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	C



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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 SOILS	<u>Physical Testing</u>		
	Weighing of Particulate Matter	BS EN 13284-1:2017 (EM 108)	A
	<u>Chemical Testing</u>		
	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: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Caesium Chromium Cobalt Copper Gallium Iron Lead Lithium Manganese Nickel Rubidium Selenium Silver Strontium Thallium Tin Uranium Vanadium Zinc</p>	<p>SOP 177 by ICP-MS</p>	<p>A</p>
<p>Potable water, surface water, groundwater, sewage effluent and industrial effluent</p>	<p>Mercury</p>	<p>SOP 178 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
WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>		
Potable Water, surface water, groundwater , Industrial effluent and sewage effluent	Total Organic Carbon (TOC)	SOP 316 using TOC Analyser	A
Potable Water, surface water, groundwater, Industrial effluent and sewage effluent	Total Nitrogen	SOP 547 using TN 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 and surface water	Colour (apparent and true)	SOP 108 by automated discrete analyser	A
Potable water, surface water, groundwater, industrial effluent and sewage effluent	Fluoride	SOP 115 by automated discrete analyser	A
	Nitrite as N Nitrite (by calculation)	SOP 118 by automated discrete analyser	A
	Nitrate as N (by calculation) Nitrate (by calculation)	SOP 103 by automated colorimetry	A
	Orthophosphate as P	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



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>		
Potable water, surface water, groundwater, industrial effluent and sewage effluent (cont'd)	Total phosphate as P Phosphate (by calculation) Phosphorus Pentoxide (by calculation)	SOP 166 by automated discrete analyser	A
	Biochemical Oxygen Demand	SOP113 using a manual DO meter or automated analyser	A
	pH	SOP 110 using a manual probe or automated analyser	A
	Conductivity	SOP 112 using a manual probe or automated analyser	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	A
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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<p>WATERS (cont'd)</p> <p>Potable water, surface water and groundwater (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Pesticides Positive LC Suite, specifically:</p> <p>2,6-Dichlorobenzamide Asulam H Atrazine Boscalid Bromacil Carbaryl Carbetamide Chlorfenvinphos B- Chlortoluron Cyproconazole Diazinon Diflufenican Dimethoate Diuron Epoxiconazole Fenpropidin Fenpropimorph Flutriafol Isoproturon Kresoxim-methyl Linuron Malathion Metalaxyl Metamitron Metazachlor Metoxuron Mevinphos Monuron Oxadixyl Parathion Methyl Pendimethalin Propazine Propiconazole</p>	<p>SOP 540 using a combination of direct aqueous injection procedure and orbitrap LCMSMS - HPLC Mass Spec. with Mass spectrometric detection (MSD) in multiple reaction monitoring (MRM) mode</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
WATERS (cont'd) Potable water, surface water and groundwater (cont'd)	<u>Chemical Tests (cont'd)</u> Pesticides Positive LC Suite, specifically (cont'd): Propyzamide Quinmerac Simazine Sulfotep Tebuconazole Triadimefon Triallate Total Pesticides	SOP 540 using a combination of direct aqueous injection procedure and orbitrap LCMSMS - HPLC Mass Spec. with Mass spectrometric detection (MSD) in multiple reaction monitoring (MRM) mode (cont'd)	A
Potable water, surface water and groundwater	Pesticides Negative LC Suite, specifically: 2,4,5-T 2,4-D 2,3,6 Trichlorobenzoic acid 2,4 DB Benazolin Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop-P Fenoprop Fluroxypyr MCPA MCPB Mecoprop PentaChloroPhenol Picloram Triclopyr Total Pesticides	SOP 543 using a combination of direct aqueous injection procedure and orbitrap LCMSMS - HPLC Mass Spec. with Mass spectrometric detection (MSD) in multiple reaction monitoring (MRM) mode	A



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WATERS (cont'd) Potable water, surface water and groundwater (cont'd)	<u>Chemical Tests (cont'd)</u> Pesticides, specifically: Aldrin alpha-BHC BHC-beta BHC-delta Chloroprotham Chlorothalonil Dieldrin Endosulfan I (Alpha) Endosulfan II (Beta) Endosulfan Sulphate Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene gamma-BHC Total Pesticides	SOP 542 - using solvent extraction on triple quad GCMSMS - GCMS with triple quad mass spectrometric detection	A
Potable water	Polycyclic aromatic hydrocarbons (PAH's), specifically: benzo[b] fluoranthene* benzo[k] fluoranthene* benzo[ghi]perylene* indeno[1,2,3-cd] pyrene* Acenaphthene Acenaphthylene Benzo[a]anthracene Benzo[a]pyrene Chrysene Fluorene Pyrene Total PAH (total of those marked*)	SOP 553 – using solvent extraction and subsequent analysis by GCMS/MS	A
Potable water, surface water and groundwater	Metaldehyde	SOP 557 using direct aqueous injection and orbitrap LCMSMS	A



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<p>WATERS (cont'd)</p> <p>Potable water, surface water, Ground water and industrial effluent</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>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 <i>p</i>-Isopropyltoluene Naphthalene <i>n</i>-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</p>	<p>SOP 154 by headspace GC-MS</p>	<p>A</p>



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>		
Potable water, surface water, groundwater and industrial effluent	Volatile Organic Compounds: <i>m/p</i> -Xylene <i>o</i> -Xylene 1,3,5-Trimethylbenzene	SOP 154 by headspace GC-MS	A
Potable water, surface water and groundwater	Trichloroethene Trichlorofluoromethane 1,2-dibromo-3-chloropropane	SOP 154 by headspace GC-MS	A
Surface water and groundwater	Vinyl chloride	SOP 154 by headspace GC-MS	A
ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES			
Impinger solutions (hydrogen peroxide)	Sulphate	In-house procedure based on BS EN 14791:2017 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 PD CEN/TS 17340:2020 using ion chromatography (IC) (SOP 190)	A



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FOOD Food products, dairy products and environmental swabs	<u>Microbiological Tests</u>		
	Detection and confirmation of <i>Salmonella</i> species	In-house procedure SOP 455 using Solus ELISA (Optima) with confirmation on selective Agars and biochemical identification	B
	Detection, confirmation and identification of <i>Listeria</i> species	In-house procedure SOP 456 using Solus ELISA with confirmation on selective Agars and biochemical identification	B
	Enumeration of <i>Listeria</i> species	In-house procedure SOP 480 based on BS EN ISO 11290-2: 2017 with resuscitation stage using spread plate	B
	Enumeration of coliform organisms (presumptive)	In-house procedure SOP 451 based on BS EN ISO 4832:2006 using pour plate	B
	Enumeration of Enterobacteriaceae (presumptive)	In-house procedure SOP 454 based on BS EN ISO 21528-2: 2017 using pour plate	B
	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	B
	Enumeration of β-glucuronidase positive <i>Escherichia coli</i>	In-house procedure SOP 453 based on BS EN ISO 16649-2: 2001 using pour plate	B
	Enumeration of coagulase positive staphylococci (<i>Staphylococcus aureus</i> and other species)	In-house procedure SOP 465 based on BS EN ISO 6888-1: 1999 using spread plate	B
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	B	
Enumeration of <i>Pseudomonas</i> spp.(presumptive)	In house SOP 496 – based on BS EN ISO 13720:2010 using spread plate	B	



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FOOD (cont'd)	<u>Microbiological Tests (cont'd)</u>		
Food products, dairy products and environmental swabs (cont'd)	Enumeration of <i>Bacillus cereus</i> (presumptive)	In-house SOP 478 – based on BS EN ISO 7932:2004 using spread plate	B
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	B
Potable (Mains) Water Bottled Mineral Water and Well Water	<u>Microbiological Tests</u> <u>Enumeration:</u>		
	<i>Clostridium perfringens</i> (and spores), presumptive	In house method SOP161 using Membrane Filtration method based on Environment Agency -The Microbiology of Drinking Water (2015) - Part 6	B
	Enterococci	In house SOP 153 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2012) - Part 5,	B
	<i>Pseudomonas aeruginosa</i> , presumptive	In house SOP 446 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2015) - Part 8	B
	Total Coliforms / <i>Escherichia coli</i>	In house method SOP 157 - Membrane Filtration Method based on UK Environment Agency - The Microbiology of Drinking Water (2016) - Part 4, with confirmation by TNA	B
	Total Bacterial Count at 22°C and 37°C	In house method SOP 493 - Spread Plate Technique based on UK Environment Agency - The Microbiology of Drinking Water (2012) - Part 7	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Testing</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 for laboratories carrying out testing of samples from stack emissions monitoring	
Impinger solutions (hydrogen peroxide)	Sulphate	In-house procedure based on BS EN 14791:2017 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 PD CEN/TS 17340:2020 using ion chromatography (IC) (SOP 190)	A
Filter papers and rinse solutions	<u>Physical Testing</u>		
	Weighing of Particulate Matter	BS EN 13284-1:2017 (EM 108)	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 BS EN 15259:2007	
	Carbon monoxide	ASTM D6348-03 (EM 227- FTIR analyser)	C
	Nitric Oxide	ASTM D6348-03 (EM 227 - FTIR analyser)	C
	Sulphur Dioxide	ASTM D6348-03 (EM 227 - FTIR analyser)	C
	<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 BS EN 15259:2007	
	Total Particulate Matter	BS EN 13284-1:2017 (EM 101)	C
	Hydrogen Chloride	BS EN 1911:2010 (EM 148)	C
	Hydrogen Fluoride	PD CEN/TS 17340:2020 (EM 129)	C
	Sulphur Dioxide	BS EN 14791:2017 (EM 167)	C
	Ammonia	BS EN ISO 21877:2019 (EM 171)	C
Metals	BS EN 14385:2004 (EM 113)	C	



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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 (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 BS EN 15259:2007 (cont'd)	
	Mercury	BS EN 13211:2001 (EM 152)	C
	Dioxins and Furans	BS EN 1948-1:2006 (EM 147)	C
	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)	C
	Formaldehyde (Dry stacks only)	PD CEN/TS 13649:2014 (EM 232)	C
	<u>Sampling and On-Site analysis</u>		
	Water Vapour	BS EN 14790:2017 (EM 122)	C
	Pressure, Temperature and Velocity (Point Velocity Method) for: • Periodic Compliance Monitoring	BS EN ISO 16911-1:2013 & EA MID 16911-1 (EM 255 - using differential pressure device (pitot tube) method) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	C
Carbon Monoxide (CO)*	BS EN 15058:2017 (EM 161 - NDIR analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C	



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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 BS EN 15259:2007 (cont'd)	
	Oxygen*	BS EN 14789:2017 (EM 161) (EM 227 - Validated Zirconium cell analyser)	C
	Nitrogen Monoxide (NO)*	BS EN 14792:2017 (EM 161 - Chemiluminescence analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Oxides of Nitrogen (NO _x)*	BS EN 14792:2017 (EM 161 - Chemiluminescence analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Sulphur Dioxide (SO ₂)*	CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Carbon Dioxide (CO ₂)*	PD CEN/TS 17405:2020 (EM 161 – NDIR analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Total Gaseous Organic Carbon* (TOC/VOC) (0 - 1000 mg/m ³)	BS EN 12619:2013 (EM 155 - FID analyser)	C

* - 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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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 IS EN 15259:2007	
	Total Particulate Matter	IS EN 13284-1: 2017 including Environment Agency (England) MID 13284-1:2017 (EM 101)	C
	Hydrogen Chloride	IS EN 1911:2010 (EM 148)	C
	Hydrogen Fluoride	PD CEN/TS 17340:2020 (EM 129)	C
	Sulphur Dioxide	IS EN 14791:2017 (EM 167)	C
	Ammonia	IS EN ISO 21877:2019 (EM 171)	C
	Metals	IS EN 14385:2004 including Environment Agency (England) MID 14385 (EM 113)	C
	Mercury	IS EN 13211:2001 including Environment Agency (England) MID 14385 (EM 152)	C
	Dioxins and Furans	IS EN 1948-1:2006 including Environment Agency (England) MID 1948 (EM 147)	C



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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 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 IS EN 15259:2007 (cont'd)	
	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)	C
	<u>Sampling and On-Site analysis</u>		
	Water Vapour	IS EN 14790:2017 (EM 122)	C
	Pressure, Temperature and Velocity (Point Velocity Method) for: • Periodic Compliance Monitoring	IS EN ISO 16911-1:2013 & EA MID 16911-1 (EM 255 - using differential pressure device (pitot tube) method) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	C
	<u>Sampling and On-Line analysis</u>		
Carbon Monoxide (CO)†	IS EN 15058:2017 (EM 161 - NDIR analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C	
Nitrogen Monoxide (NO)†	IS EN 14792:2017 (EM 161 - Chemiluminescence analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C	



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Testing performed by the Organisation at the locations specified

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 (cont'd)</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 IS EN 15259:2007 (cont'd)	
	Oxides of Nitrogen (NO _x)†	IS EN 14792:2017 (EM 161 - Chemiluminescence analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Sulphur Dioxide (SO ₂)†	CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Carbon Dioxide (CO ₂)†	PD CEN/TS 17405:2020 (EM 161 – NDIR analyser) CEN/TS 177337:2019 (EM 227 – Validated FTIR analyser)	C
	Total Gaseous Organic Carbon† (TOC/VOC) (0 - 1000 mg/m ³)	IS EN 12619:2013 (EM 155 - FID analyser)	C

† - 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