


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1005 Accredited to ISO/IEC 17025:2017	The City of Edinburgh Council	
	Issue No: 048 Issue date: 31 July 2020	
	Edinburgh Scientific Services 4 Marine Esplanade Edinburgh EH6 7LU	Contact: Robbie Beattie Tel: +44 (0)131 555 7980 Fax: +44 (0)131 555 7987 E-Mail: scientific.services@edinburgh.gov.uk Website: www.edinburgh.gov.uk/scientificservices
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 Edinburgh Scientific Services 4 Marine Esplanade Edinburgh EH6 7LU Local contact Robbie Beattie Tel: +44 (0)131 555 7980 Fax: +44 (0)131 555 7987 Email: scientific.services@edinburgh.gov.uk	Health and Hygiene Chemical Testing Microbiological Testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises including domestic, commercial and industrial	Health and Hygiene	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
ANIMAL FEEDING STUFFS	<u>Chemical Tests</u>	Documented In-House Methods:	
	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ (small sample size)	Method FVU 329 using HPLC with immuno-affinity column and fluorescence detector	A
	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A (small sample size)	Method FIH072 using HPLC with immuno-affinity column and fluorescence detector	A
	Ash	F/IH/004 using gravimetry	A
	Acid insoluble ash	F/IH/31 using gravimetry	A
	Crude Fibre	FVU223 using Foss Fibertec	A
	Oil/Fat	F/IH/005 using acid digestion and soxhlet extraction	A
	Moisture	F/IH/006 using gravimetry	A
	Nitrogen	Method FVU 013 using digestion block	A
	Protein	F/IH/007, calculation based on Method FVU 013	A
	Arsenic, Cadmium, Cobalt, Copper, Lead, Mercury, Selenium and Zinc	FIH073 using ICP-MS	A
	Vitamins A, and E	FIH064 using HPLC with UV/PDA detection	A
	<u>Microbiological Tests</u>	Documented In-House Methods:	
Isolation and confirmation of: <i>Salmonella</i> spp	Method M/018 using enrichment based on BS EN ISO 6579:2002 + A1:2007	A	



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FOODS and FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods:	
- Alcoholic beverages	Alcoholic strength	Method FVU 163 by obscuration	A
	Alcoholic strength	F/IH/020 using distillation and density measurement	A
	Congeners: Acetaldehyde Amyl alcohols Ethyl acetate Methanol 2-methylpropan-1-ol Propan-1-ol	Method FVU 161 using GC/FID	A
	Sugars: Fructose Glucose Sucrose	Method FIH053 using HPLC with pulsed amperometric detection	A
- Apple juice	Patulin	Method FIH079 using HPLC with UV detection	A
- Bakery products	Moisture	Method FVU 222 using gravimetry	A
- Dairy products	Ash	Method FVU 137 using gravimetry	A
	Nitrogen	FVU 013 using digestion block followed by steam distillation and titration of the distillate	A
	Total solids	Methods FVU 005, FVU 136 and FVU 148 using Gravimetry	A
- Cheese	Water content	Method FVU 294	A
- Cream	Protein	F/IH/007, calculation based on Method FVU 013	A
	Fat	FVU 108 using the Rose-Gottlieb method	A
		FVU 216 using the Gerber method	A
- Milk	Antibiotic residues and other inhibitory substances	Method FVU 260 using Delvotest SP kits	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
- Milk (cont'd)	Fat	FVU 004 using the Rose-Gottlieb method	A
	Fat	FVU 008 using the Gerber method	A
	Freezing point depression	Method FVU 147 using Thermistor Cryoscope	A
Milk and Milk Products	Milk-solids - non-fat	F/IH/008, calculation based on results of accredited tests	A
Milk and Milk Products (cont'd)	Phosphatase activity	Method FIH067 using Fluorophos Instrument	A
Milk	Titrateable acidity	Method FVU 131 using titrimetry	A
- Fats and oils	Fatty acid composition	FVU 291 using capillary gas chromatography	A
	Free fatty acids	Method FVU 010 using titrimetry	A
	n-Butyric acid	Method FVU 289 using GC/FID	A
	Peroxide value	Method FVU 009 using titrimetry	A
- Fish and fish products	Fish content	F/IH/010, a calculated result based on accredited moisture fat, protein and carbohydrate test results	A
	Identification of species	FIH059 using DNA extraction, PCR-RFLP with detection of DNA fragments using the Agilent 2100 Bioanalyser	A
	Total volatile nitrogen	Method FVU 157 using titration	A
- Nuts, nut products	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ (small sample size)	Method FVU 329 using immuno-affinity column/HPLC/fluorescence detector	A
- Nuts, nut products spices	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A (small sample size)	Method FIH072 using immuno-affinity column/HPLC/fluorescence detector	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
- Foods in general	Acidity	Method F/IH/013 by titration	A
	Alcohol content	Method F/IH/019 using GC/FID	A
- Foods in general (cont'd)	Additives, colourings, preservatives and related contaminants	Development and modification of methods and analysis for food analysis using the Flexible Scope Procedures GP/501 for the techniques, HPLC using UV, diode array, fluorescence and RI detection	A
	Composition	GP/601 using GC with Flame Ionisation Detector GP/701 using UV Spectrophotometry GP/1000 using enzyme immunoassay test kits	
	Artificial colours (quantitative)	Method FVU 104 using HPLC with UV detection	A
	Additives and flavouring: Acesulfame K Aspartame Benzoic acid Caffeine Saccharin Sorbic acid	Method F/IH/028 by HPLC with UV detection	A
	Ash	Method F/IH/004 using gravimetry	A
	Acid insoluble ash	Method F/IH/031 using gravimetry	A
	Butter fat	Method FVU 289 by calculation	A
	Chloride	F/IH/034 using Mohr's titration	A
	Arsenic, Cadmium, Mercury, Lead, Copper and Zinc	FIH073 using ICP-MS	A
	Energy value	Method FVU 381, a calculated result based on accredited protein, carbohydrate, fat and alcohol in food test results	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
- Foods in general (cont'd)	Fat	F/IH/002 using Werner-Schmidt method	A
	Identification of materials	Flexible Scope Procedure GP/300 using light microscopy	A
	Fat	Method F/IH/005 using acid digestion and Soxhlet extraction	A
	Free fat	Methods F/IH/017 and F/IH/018 using Soxhlet extraction	A
	Moisture	Method F/IH/018 using gravimetry	A
	Moisture	Method F/IH/006 using gravimetry	A
	Monosodium glutamate	Method F/IH/036 using HPLC with UV detection	A
	Nitrogen	Method FVU 013 using digestion block followed by steam distillation and titration of the distillate	A
	pH	Method FVU 282	A
	Protein	Method F/IH/007, calculation based on results of accredited tests	A
	Sodium (Salt by Calculation)	Method FIH 069 using microwave digestion followed by ICP-OES	A
	Soluble solids	Method FVU 247 using refractometer	A
	Sugars	Method F/IH/014 using HPLC with refractive index detection	A
	Sulphur dioxide	Method FVU 246 using iodine titration	A
	Tin	Method FVU 134 using atomic absorption spectrophotometry	A
	Water activity	Method F/IH/021 using chilled mirror dew point technique	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
- Meats and meat products	Hydroxyproline	FVU 092 using UV/VIS spectrophotometry	A
	Meat content	Method F/IH/010, calculated result based on accredited test results	A
	Identification of meat species	Flexible Scope Procedure GP/1000 using enzyme immunoassay test kits	A
- Meats and meat products (raw and cooked)	Identification of meat species: Horse Pork	Method FPCR02 detection of equine and porcine Mitochondrial DNA using Real time qPCR technique with the Applied Biosystems OneStepPlus Real Time PCR	A
	Nitrite	Method FVU 288 using UV/VIS spectrophotometry	A
- Meats and meat products (raw and cooked) (cont'd)	Total volatile nitrogen	Method FVU 157 using titrimetry	A
- Preserves	Acetic acid	Method FVU 176 using alkaline titration	A
- Rice	Detection of genetically modified organism: Rice event Bt63	Method FPCR01 using RT-PCR	A
- Soya based sauces	3-monochloropropan1,2 -diol (3-MCPD)	Method FIH071 using GC-MS	A
- Spices and condiments	Examination	Metho FVU 224 using optical microscopy	A
- Fruit products	Drained weight	Method FVU 052 using gravimetry	A
- Honey	Moisture content	Method FVU 265 using refractometer	A
	Ash	Method FVU 122 using gravimetry	A



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FOODS and FOOD PRODUCTS (cont'd) - Foods in general	<u>Chemical Tests & Physical</u>	Documented In-House Methods:	
	Water-insoluble solids	Method FVU 266 using gravimetry	A
	<u>Microbiological Tests</u>	Documented In-House Methods:	
	Isolation and enumeration of:		
	Total colony count at 30 °C	Method M/015 using pour plate count based on BS EN 4833:2013	A
	Total coliforms and <i>Escherichia coli</i>	Method M/044 using chromogenic medium	A
	<i>Escherichia coli</i>	Method M/051 using colony count based on BS ISO 16649-2:2001	A
	<i>Bacillus cereus</i>	Method M/024 using plate count based on BS EN ISO 7932:1998	A
	<i>Clostridium perfringens</i>	Method M/022 using plate count based on BS EN ISO 7937:2004	A
	<i>Enterobacteriaceae</i>	Method M/027 using plate count based on BS ISO 21528-2:2004	A
	<i>Enterococci faecalis</i>	Method M/017 using plate count based on BS 4285-Part 3.11:1985	A
	<i>Listeria and Listeria monocytogenes</i>	Method M/021 using enrichment and plate count based on BS EN ISO 11290-2:2017 with identification using API Listeria	A
<i>Staphylococcus aureus</i>	Method M/020 using plate count based on BS EN ISO 6888-1:1999	A	
<i>Campylobacter spp</i>	Method M/023 using Preston enrichment broth incubated at 37°C for 48 hours and plating onto CCDA and Chromogenic agar and incubated at 41.5°C for 48hours with confirmation by morphology, motility, oxidase, Oxoid campy latex, and biochemical identification using API Campy test	A	



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FOODS and FOOD PRODUCTS (cont'd) - Foods in general (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-House Methods:	
	Isolation and confirmation of: (cont'd)		
	<i>Escherichia coli</i> O157	Method M/041 using enrichment and immuno-magnetic separation based on BS EN ISO 16654:2001 + AMD 1:2017	A
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Method M/019 using enrichment based on BS EN ISO 11290-1:2017 with identification using API Listeria	A
	<i>Salmonella</i> spp	Method M/018 using enrichment based on BS EN ISO 6579-1:2017:	A
	<i>Detection and enumeration of Enterobacteriaceae</i>	Method M/036 based on BS ISO 21528-1:2004 using MPN technique with pre-enrichment	A
	<i>Yeast and moulds</i>	Method M045 using spread plate method based on ISO 21527-1:2008	A
Shellfish (bivalve molluscan)	Enumeration of <i>E. coli</i>	Method M/047 using MPN based on BS EN ISO 16649-3: 2015	A
Milk	Isolation and enumeration of:		
	<i>Total colony count at 30 °C</i>	Method M/011 using plate count	A
	<i>Escherichia coli</i>	Method M/051 using selective medium, based on BS ISO 16649-2:2001	A
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Method M/021 using enrichment and plate count based on BS EN ISO 11290-2:2017 with identification using API Listeria	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods based on the methods specified in the Food Hygiene (Scotland) Regulations 2006	
- Foods in general (cont'd)	Isolation and confirmation of: (cont'd)		
	<i>Enterobacteriaceae</i>	Method M/027 using plate count based on BS ISO 21528-2:2004	A
	<i>Staphylococcus aureus</i>	Method M/020 using plate count based on BS EN ISO 6888-1:1999	A
	<i>Salmonella</i> spp	Method M/018 using enrichment and plating based on BS EN ISO 6579-1:2017	A
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Method M/019 using enrichment and plating based on BS EN ISO 11290-1:2017 with identification using API Listeria'	A
	<i>Escherichia coli</i> O157	Method M/041 using enrichment, immuno-magnetic separation and plating based on BS EN ISO 16654:2001 + AMD 1 :2017	A
Raw Poultry	Enumeration: <i>Campylobacter</i> spp.	Method M/060 based on ISO 10272-2:2017 with confirmation using Oxidase, Aerobic Growth Capability, Motility and Morphology	A



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FOODS and FOOD PRODUCTS (cont'd)	<u>Molecular Biology Tests</u>	Documented In-House Procedure:	
Processed Meat Products, Raw and Processed Poultry	Detection of: Campylobacter jejuni DNA	MPCR08 by real time PCR of "CaD-F" target specific Probes and Primers, using the ABI Step One Plus Thermocycler, following primary enrichment in Modified Preston Broth. Confirmation of culturable organisms using the Instagene extraction procedure and real time PCR for the detection of the CaD-F gene.	A
Bean Sprouts / Sprouted Seeds	Shiga Toxin Producing <i>Escherichia coli</i> DNA specific to stx1, stx2 and eae genes	MPCR09 by real time PCR of stx1, stx2 and eae target specific Probes and Primers following primary enrichment in Modified Tryptone Soya Broth.	A
Dairy Products	Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR012 by real time PCR of stsx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth	A
Mince and Meat Products	Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR013 by real time PCR of stsx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth	A
FOODS and FOOD PRODUCTS, ANIMAL FEEDING STUFFS, ENVIRONMENTAL SAMPLES (soils and waters)	Detection and Identification of Bacteria DNA using Specific Genomic Sequences	Development and modification of methods and analysis using the Flexible Scope Procedure GP1103 using Real Time PCR	A
POLLUTANTS AND EFFLUENTS:	<u>Chemical Tests</u>	Documented In-House Method:	
Atmospheric	Nitrogen dioxide (collected by diffusion tubes)	Method EA/017 based on Apling A J, et al, Warren Spring Laboratory, LR 311 (AP), 1979 using spectrophotometry	A



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SWABS - Environmental swabs	<u>Microbiological Tests</u>	Documented In-House Methods:	
	Sample preparation	Method M/046 followed by	A
	Total colony count at 30 °C	Method M/015 using plate count based on BS EN 4833:2013	A
	Coliforms	Method M/044 using plate count on chromogenic medium	A
	<i>Escherichia coli</i>	Method M/044 using plate count on chromogenic medium	A
WATERS Potable, surface, ground water	<u>Chemical Tests</u>	Documented In-House Methods:	
	Alkalinity	Method W/010 based on SCA Method, 1981 (ISBN 011 75116015)	A
	Ammonia and ammonium ion	Method W/012 based on SCA Method, 1981 (ISBN 011 75116939)	A
	Colour	Method W/021 based on SCA Method, 1981, 1988 (ISBN 011 7519553, ISBN 011 7520837)	A
	Dry residue at 180 °C	Methods W/005 based on SCA Method, 1980 TDS (ISBN 011 751957X)	A
	Electrical conductivity	Method W/004 based on SCA Method, 1978 (ISBN 011 7514284)	A
	pH	Method W/003 based on SCA Method, 1978 (ISBN 011 7514284)	A
	Turbidity	Method W/022 based on SCA Method, 1981 (ISBN 011 7519553)	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
Potable, surface, ground water (cont'd)	Elemental analysis: Aluminium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Silver, Sodium, and Zinc	Method W/031 using ICP-OES	A
	Lead	W/015 using ETA-AAS	A
	Chloride	Method W/024 using ion chromatography	A
	Nitrate	Method W/024 using ion chromatography	A
	Sulphate	Method W/024 using ion chromatography	A
	Residual disinfectant	Method W/017 based on SCA Method, 1980 (ISBN 011 7514934)	A
	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water	
Potable waters	Isolation and confirmation of: <i>Escherichia coli</i> O157	Method M/030 using enrichment and immuno-magnetic separation based on BS EN ISO 16654:2001 + AMD 1:2017	A
	<i>Salmonella</i> spp	Method M/006 using enrichment based on The Microbiology of Drinking Water (2006) Part 9, including additional secondary enrichment in MKTTn and isolation on XLD and BGA agars	A
Potable, surface, ground water	Isolation and enumeration of: <i>Total viable colony count at 22 °C and 37 °C</i>	Method M/001 using membrane filtration	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods based on The Microbiology of Drinking Water (cont'd)	
Potable waters	<i>Legionella spp</i>	1) Method M/008 based on ISO 11731:1998	A
		2) Method M/058 based on ISO 11731-2:2004	A
Potable, surface, ground water	<i>Total coliforms and Escherichia coli</i>	Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D	A
Potable, surface, ground water (cont'd)	Total coliforms and <i>Escherichia coli</i>	M/042 using membrane filtration and chromogenic medium	A
	<i>Enterococci</i>	Method M/004 using membrane filtration based on The Microbiology of Water (2012) Part 5A	A
	<i>Pseudomonas aeruginosa</i>	Method M/010 using membrane filtration	A
Potable, surface, ground water, closed hot and cold water systems water and spa bath water (excluding cooling tower and high bio-burden waters)	Detection and quantification of: <i>Legionella</i> species DNA	Method MPCR01 using RT-PCR	A
	<u>Chemical Tests</u>	Documented In-House Methods:	
Potable waters (including Public and Private Water Supplies)	Analysis for the purpose of enforcement of: - The Water Supply (Water Quality) (Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2006 (SSI2006/209)	Methodology meeting the requirements of The Drinking Water Testing Specification	
	Ammonia and ammonium ions	Method W/012 using UV Spectrophotometry	A
	Colour	Method W/021 using UV Spectrophotometry	A



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WATERS (cont'd) Potable waters (including Public and Private Water Supplies) (cont'd)	<u>Chemical Tests</u> (cont'd) Analysis for the purpose of enforcement of: - The Water Supply (Water Quality)(Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2006 (SSI2006/209)	Documented In-House Methods: Methodology meeting the requirements of The Drinking Water Testing Specification (cont'd)	
	pH	Method W/003 using pH meter	A
	Electrical conductivity	Method W/004 using conductivity meter	A
	Total Organic Carbon	Method W/038 using Spectrophotometry Hach-Lange TOC Analyzer	A
	Turbidity	Method W/022 using Turbidity Meter	A
	Anions: Fluoride Chloride Nitrate Nitrite Phosphate Sulphate	Method W/024 using ion chromatography	A
	Antimony Arsenic Mercury Selenium	Method W042 using ICP-MS	A
	Lead	Method W/015 ETV-AAS	A



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WATERS (cont'd) Potable waters (including Public and Private Water Supplies) (cont'd)	<u>Chemical Tests</u> (cont'd) Analysis for the purpose of enforcement of: - The Water Supply (Water Quality)(Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2006 (SSI2006/209) Metals: Aluminium Boron Cadmium Chromium Copper Iron Manganese Nickel Silver Sodium Zinc	Documented In-House Methods: Methodology meeting the requirements of The Drinking Water Testing Specification (cont'd) Method W/031 ICP-OES	A
Potable waters (including Public and Private Water Supplies) (cont'd)	<u>Microbiological Tests</u> Analysis for the purpose of enforcement of: - The Water Supply (Water Quality)(Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2006 (SSI2006/209) <i>Faecal enterococci</i>	Methodology meeting the requirements of The Drinking Water Testing Specification Method M/004 based on The Microbiology of Drinking Water (2012) Part 5A	A
	<i>Coliforms and E coli</i>	Method M/042 based on The Microbiology of Drinking Water (2016) Part 4B	A



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Potable waters (including Public and Private Water Supplies) (cont'd)	<u>Microbiological Tests</u>		
	Analysis for the purpose of enforcement of: - The Water Supply (Water Quality)(Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2006 (SSI2006/209)	Methodology meeting the requirements of The Drinking Water Testing Specification	
WATERS: Waste and Effluents	Detection and enumeration of: Coliforms and E coli	Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4 D	A
	Isolation and confirmation of: Sulphite Reducing Clostridia and Clostridium perfringens	Method M/007 based on The Microbiology of Drinking Water (2015) Part 6	A
SWIMMING POOL WATERS	<u>Chemical Tests</u>	Documented In-House Methods:	
	Biological Oxygen Demand	Method W036 based on MEWAM 1981 using by colorimetry (Hach Lange system)	A
	Chemical Oxygen Demand	Method W/037 using Spectrophotometry (Hach-Lange COD Analyzer)	A
	Suspended Solids	Method W029 using Gravimetry	A
SWIMMING POOL WATERS	<u>Chemical Tests</u>	Documented In-House Methods:	
	pH	Method W/003 based on SCA Method 1978 B	A
	Conductivity	Method W/004 based on SCA Method 1978 A	A
	Calcium	Method W/008 based on SCA Method 1981	A



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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
SWIMMING POOL WATERS (cont'd)	<u>Chemical Tests</u>	Documented In-House Methods:	
	Alkalinity	Method W/010 based on SCA Method 1978 A	A
	Residual disinfectant	Documented In-House Method based on SCA Method, 1980 (ISBN 011 7514934)	A
	Turbidity	Method W/022 based on SCA Method, 1981 (ISBN 011 7519553)	A
	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water 2002	
	Enumeration of: Total aerobic colony count at 22°C and 37°C	Method M/001 using membrane filtration	A
	Total coliforms and <i>Escherichia coli</i>	M/042 using membrane filtration and chromogenic medium	A
<i>Pseudomonas aeruginosa</i>	Method M/010 using membrane filtration	A	
END			