


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0625</b> <b>Accredited to ISO/IEC 17025:2017</b>	<b>Lancashire County Scientific Services</b>	
	Issue No: 045    Issue date: 04 June 2020	
	<b>Pedders Way Preston Riversway Docklands Preston PR2 2TX</b>	<b>Contact: Alice Wilson Tel: +44 (0)1772 721660 Fax: +44 (0)1772 732417 E-Mail: <a href="mailto:scientificservices@lancashire.gov.uk">scientificservices@lancashire.gov.uk</a></b>
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
<b>Address</b> Pedders Way Preston Riversway Docklands Preston PR2 2TX  <b>Local contact</b> Bharathi Reddy  Tel: +44 (0)1772 721660 Fax: +44 (0)1772 732417 Email: <a href="mailto:scientificservices@lancashire.gov.uk">scientificservices@lancashire.gov.uk</a>	Health and Hygiene Chemical Testing Microbiological Testing Highways 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
ASBESTOS FIBRES IN AIR	<u>Health and Hygiene</u>	Health and Safety Executive Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG 248)	
	Fibre counting	HSG 248:February 2005 (Documented In-House Procedure)	A, B
	Sampling of air for fibre counting	HSG 248:February 2005 (Documented In-House Procedure)	B
	Sampling of bulk materials for asbestos identification	Documented In-House Method	B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	4 Stage Clearance Process	HSG 248:February 2005 (Documented In-House Procedure)	B
	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House Procedure using stereo microscopy and dispersion staining	A
ANIMAL FEEDING STUFFS	<u>Chemical Tests</u>	Documented In-House Methods:	
	Ash	B08 using a gravimetric technique	A
	Crude oil and fat	B02 using acid hydrolysis and solvent extraction	A
	Fibre	B66 using gravimetric technique (Fibretec Digestion equipment)	A
	Moisture	B01 and B01A using gravimetric technique	A
	Protein (calculated value)	A34 using LECO nitrogen analysis	A
	Vitamin A	A14 using HPLC with UV detection	A
	Vitamin E	A57 using HPLC with UV or fluorescence detection	A



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ANIMAL FEEDING STUFFS (cont'd)	<u>Chemical Tests</u> (cont'd) Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Zinc	Documented In-House Methods B9 using digestion followed by Inductively Coupled Plasma Mass Spectrometry	A
FOOD AND FOOD PRODUCTS as stated:	<u>Chemical Tests</u>	Documented In-House Methods:	
CHEESE	Fat	F05 6 using acid digestion followed by gravimetric technique	A
	Water content	F05 4 based on BS 770:Part 2:1976(1985)	A
COCOA and CHOCOLATE PRODUCTS			
Cocoa, chocolate	Theobromine	F06 1 using High Performance Liquid Chromatography with UV Detection	A
Beer, Wine and Fortified Wine	Alcohol	F19 1 using distillation and gas liquid chromatography techniques	A
Spirits	Alcohol	F19 2 using gravimetric techniques	A
	Congeners: Acetaldehyde Methanol Propan-1-ol Ethyl acetate 2-methylpropan-1-ol 2-methylbutan-1-ol 3-methylbutan-1-ol	F19 7 using Gas Liquid Chromatography with FID detection	A
	Trace sugars	F19 8 using Ion Chromatography	A
FOODS, General	Ash	F22 17 using gravimetric technique	A
	Fat	F22 6 using acid digestion followed by gravimetric technique	A
	Moisture	F22 21 using gravimetric technique	A
	Nitrogen	F22 10 using combustion and thermo-conductivity detection techniques	A



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FOOD AND FOOD PRODUCTS as stated: (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
FOODS, General (cont'd)	Total Carbohydrate and Energy (kcal)	CALC 01 Based on EU 1169/2011	A
MEAT PRODUCTS and PROCESSED MEAT	Hydroxyproline	F22 1 based on ISO 3496:1994(E) using acid digestion and a colorimetric technique	A
	Moisture	F22 13A using gravimetric technique	A
	Fat	F22 13B using extraction and gravimetry	A
	Nitrogen	F22 7 using digestion, distillation and titrimetric technique	A
	Nitrate	F22 4 based on BS 4401:Part 7:1976	A
	Nitrite	F22 3 based on BS 4401:Part 8:1976	A
	MILK AND MILK PRODUCTS	Density	F23 3 based on BS 734:Part 2:1959(1991)
Fat		F23 29 based on BS EN ISO 1211:2010 using Rose Gottlieb	A
Freezing point		F23 5 using thermistor cryoscope	A
Titrateable acidity		F23 33 using titrimetry	A
OILS and FATS	Acidity and acid value	F26 2 using titrimetry	A
	Peroxide value	F26 1 based on BS 684:Section 2.14:1987 using titration	A
	Butter fat in fat	F26 3 using Gas-Liquid Chromatography	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
SUGAR PRODUCTS	Sugar content	F34-2 using HPLC and Refractive Index Detection	A
	Fat	F29 2 using acid hydrolysis	
FOODS, General	Additives, contaminants and food composition	Development and modification of methods and analyses for food enforcement purposes using the Generic Protocol GPROC using High Performance Liquid Chromatography with UV, RI, Fluorescence, detection, Gas Chromatography using FID, UV/Vis spectrophotometry, Flame Atomic Absorption Spectrophotometry (AAS) Electrothermal AAS Hydride generation AAS Ion Chromatography (IC), Inductively Coupled Plasma Mass Spectrometry (ICPMS)	A
	Aflatoxins B1, G1, B2, G2	F GEN 13 using High Performance Liquid Chromatography with Fluorescence Detection	A
	Artificial sweeteners in aqueous solutions and foods	F GEN 37 using HPLC with UV detection	A
	Caffeine	F GEN 37 using HPLC with UV detection	A
	Sodium (and Salt by calculation)	F GEN 58 using Digiprep digestion and ICP-MS	A
Beverages, foods readily soluble in water (sugar, confectionery, curry sauces)	Quantitative determination of water soluble synthetic colours	F GEN 39 using HPLC with UV/Vis detection	A
	Detection of peanut protein	FGEN 56 Using ELISA test kits	A
	Dietary fibre	F GEN 40 based on VEMS Englyst general method	A
		F GEN 40A based on AOAC method 985 29	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Beverages, foods readily soluble in water (sugar, confectionery, curry sauces) (cont'd)	Dry soluble residues (soluble solids)	F GEN 36 using refractometry	A
	Elemental analysis: Arsenic, Cadmium, Calcium, Copper, Iron, Lead, Mercury, Tin and Zinc	Method number FGEN 57 by Digiprep digestion and ICP-MS	A
	Fatty acid profile	F06 6 & F06 5 based on BS EN ISO 12966-2:2017	A
	Free fatty acids	F26 2 using titrimetry	A
	Identification of Herbs, Spices and Foods	F GEN 42 using light microscopy	A
	Nitrate	F 14 2 using HPLC with UV detection	A
	Preservatives	F GEN 37 using HPLC with UV detection	A
	Salt	F GEN 3 using titrimetry	A
	Sulphur dioxide	F GEN 1 using distillation and titrimetry	A
	Total volatile bases	F GEN 2 using titrimetry	A
FOODS	<u>Molecular Tests</u>	Documented In-House Method	
Meat, Meat Products, Processed Meat, Milk and Dairy Products	Identification of Meat Species: Cow, Chicken, Horse, Goat, Pig, Sheep and Turkey	F22-26 using DNA Detection by Real Time PCR	A
Fish & Fish Products	Identification of fish species	F09-9 using PCR-RFLP	A



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FOODS (General)	<u>Microbiological Tests</u>	Documented In-House Methods	
	Enumeration of:		
	<i>Bacillus cereus</i>	F GEN 22 based on BS EN ISO 7932:2004	A
	<i>Clostridium perfringens</i>	F GEN 23 based on BS EN ISO 7937:2004	A
	$\beta$ -glucuronidase positive <i>Escherichia coli</i>	F GEN 21 based on BS ISO 16649-2:2001	A
	<i>Staphylococcus aureus</i>	F GEN 26 based on BS EN ISO 6888-1:1999	A
	Presumptive Enterobacteriaceae	F GEN 30B based on BS ISO 21528-2:2004	A
	Aerobic Colony Count at 30°C	F GEN 31 based on BS EN ISO 4833-1:2013	A
	<i>Listeria monocytogenes</i>	FG 59B based on BS EN ISO 11290-2:2017	A
	Detection of:		
	<i>Salmonella</i>	F GEN 33 based on BS EN ISO 6579-1:2017	A
	Thermophilic campylobacters	F GEN 34 based on BS EN ISO 10272-1:2017	A
<i>Listeria monocytogenes</i>	FG 59A based on BS EN ISO 11290-1:2017	A	
SOIL IMPROVERS AND PLANT GROWING MEDIA	<u>Microbiological Tests</u>	Documented In-House Methods:	
(Soil Improvers, plant growing media including digestates and composts)	Enumeration of presumptive <i>E. coli</i>	Documented In-House methods for the purposes of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (amended 2013) FGEN 21 based on BS ISO 16649-2:2001	A



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SOIL IMPROVERS AND PLANT GROWING MEDIA (cont'd)  (Soil improvers, plant growing media including digestate and compost)	<u>Microbiological Tests</u> (cont'd)  Detection of <i>Salmonella</i> species	Documented In-House Methods:  Documented In-House methods for the purposes of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (amended 2013) WR11 based on BS 6579-1:2017	A
WATERS for types as indicated for each test	<u>Chemical Tests</u>	Documented In-House Methods:	
Potable water, Raw water, Waste water, Bathing water (excluding saline)	Alkalinity (for pH > 4.5)	WW1 based on 1981 HMSO publication (ISBN 0117516015) using a titrimetric technique	A
Potable (and other clean) water, Bathing water (excluding saline)	Ammonia	WW2A based on 1981 HMSO publication (ISBN 0117516139) using spectrophotometry	A
Waste water	Ammoniacal Nitrogen	WW2B or WW02E based on 1972 HMSO publication (ISBN 0117505129) using distillation, nesslerisation and colour comparator disc determination	A
	Biochemical Oxygen Demand	WW03 using a dissolved oxygen meter	A
	Chemical Oxygen Demand	WW04 S2 (filtered) and S3 (as received) using a photometric technique	A
Potable water, Raw water, Waste water	Conductivity	WW7 based on 1978 HMSO publication (ISBN 0117514284) using a conductivity meter	A
Leachates	Dissolved metals: Arsenic, Aluminium, Cadmium, Chromium, Copper, Manganese, Iron, Lead, Nickel, Zinc	WW 31 using Inductively Coupled Plasma Mass Spectrometry (ICP/MS)	A





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WATERS for types as indicated for each test (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
Potable waters	Total metals: Arsenic, Aluminium, Cadmium, Chromium, Copper, Manganese, Iron, Lead, Nickel, Zinc	WW 31 using Inductively Coupled Plasma Mass Spectrometry (ICP/MS)	A
Potable Water, raw water, leachates, waste water	Calcium, Magnesium, Potassium, Sodium,	WW 32 using Inductively Coupled Plasma Mass Spectrometry (ICP/MS)	A
Potable water, Raw water, Waste water	Fluoride, Chloride, Phosphate, Sulphate, Nitrite, Nitrate	WW15/2 using Ion Chromatography	A
Potable water, Raw water, Waste water, Bathing water (excluding saline)	pH	WW22 based on 1978 HMSO publication (ISBN 0117514284) using a pH electrode	A
Leachate waters	Dissolved Methane	W81A using headspace analysis and Gas Liquid Chromatography	A
Potable water, Raw water, Bathing water (excluding saline)	Total solids	WW27 and WW27/1 based on 1980 HMSO publication (ISBN 011751957X) using a gravimetric technique	A
Wastewater	Suspended solids	W01 using a gravimetric technique	A
Potable water, Raw water	Turbidity	WW28 using nephelometry	A
WATERS	<u>Microbiological Tests</u>	Documented In-House Methods:	
Potable Water, Recreational and Environmental Water	Enumeration of Total Coliforms and <i>E. coli</i>	F99 6 based on Microbiology of Drinking Water 2016 Part 4	A
	Total Aerobic Colony Count at 37 °C and 22 °C	F99 4, based on Microbiology of Drinking Water 2012 Part 7 The Microbiology of Recreational and Environmental Waters (2000)	A



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WATERS (cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods:	
WATERS Process Waters, Hot and Cold Water Systems (Domestic and Industrial) and Recreational Waters	Detection and Enumeration of <i>Legionella pneumophila</i> SG 1-14	F99-11 based on BS EN ISO 11731:2017 using filtration with washing, using GVPC, identification by latex agglutination [Matrix A&B; Procedure 8,9 & 10 Media C]	A
	<u>Highways Testing</u>		
AGGREGATES	Particle size distribution - sieving method	HT1 BS EN 933-1:2012	A
	Flakiness index	HT1 BS EN 933-3:2012	A
BITUMINOUS MIXTURES for roads and other paved areas	Maximum density - volumetric procedure	HT2 BS EN 12697-5:2009	A
	Bulk density - sealed specimen	HT2 BS EN 12697-6:2012	A
	Air voids content (Vm)	HT2 BS EN 12697-8:2003	A
	Thickness of a bituminous pavement - destructive method	HT3 BS EN 12697-36:2003	A
END			