


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1111</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3 style="margin: 0;">Eurofins Environmental Services Ltd</h3> <p style="margin: 0;">Issue No: 031 Issue date: 20 October 2009</p>	
	<p>Sussex Laboratory Lewes Road Falmer Sussex BN1 9PY</p>	<p>Contact: Mr Graham Butcher Tel: +44 (0)1273 663408 Fax: +44 (0)1273 683412 E-Mail: graham.butcher@southernwater.co.uk Website: www.eurofins.co.uk</p>

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
<p>Address Sussex Laboratory Lewes Road Falmer Sussex BN1 9PY</p> <p>Local contact Mr T Simcox Tel: +44 (0)1273 663421 Fax: +44 (0)1273 683412 Email: analysis@southernwater.co.uk</p>	<p><u>Testing:</u> Chemical Microbiological</p> <p><u>Support Functions:</u> Sample receipt and distribution</p>	S
<p>Address Northpoint Business Estate Enterprise Close Medway City Estate Rochester Kent ME2 4LY</p> <p>Local contact Mr Ashley Jonas Tel: +44 (0)1634 824149 Fax: +44 (0)1634 824214 Email: analysis@southernwater.co.uk</p>	<p><u>Support Functions:</u> Sample receipt and distribution</p>	K
<p>Address Hampshire Laboratory Sparrow Grove Otterbourne Winchester Hampshire SO21 2SW</p> <p>Local contact Mrs Carol Lucas Tel: +44 (0)1962 716177 Fax: +44 (0)1962 714691 Email: analysis@southernwater.co.uk</p>	<p><u>Testing:</u> Chemical</p> <p><u>Support Functions:</u> Sample receipt and distribution</p>	H
<p>Address Acton Laboratory 28-32 Brunel Road Acton London W3 7XR</p> <p>Local contact Mr Lee Bollen Tel: +44 (0)20 8222 6070 Fax: +44 (0)20 8222 6080 Email: analysis@southernwater.co.uk</p>	<p><u>Testing:</u> Microbiological</p> <p><u>Support Functions:</u> Sample receipt and distribution</p>	A



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Water Treatment Works, Service Reservoirs and Domestic Premises Ground and Surface Water Sources Land and Landfill Sites	Sampling and on-site testing	D



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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
SOILS	<u>Microbiological Tests</u>		
Sludges (granule, cake, liquid, fly ash treated, and lime treated)	Coliforms and <i>E coli</i>	Documented In-House Method using Colilert, based on "The Microbiology of Sewage Sludge" (2003), Part 3	A
WATERS	Analysis for the purpose of enforcement of The Water Supply (Water Quality) Regulations 2000 (SI 2000/3184)	Where applicable the methodology meeting the requirements of The Drinking Water Testing Specification	
Drinking waters Ground waters Non-saline waters	<u>Microbiological Tests</u>	Documented In-House Methods based on "The Microbiology of Drinking Water 2002" unless stated otherwise	
	Isolation and Enumeration of : - Colony count - 1 Day @ 37°C - Colony count - 2 Day @ 37°C - Colony count - 3 Day @ 22°C	Documented In-House Method EUMM4.02 based on "The Microbiology of Drinking Water 2007"	A
	- Presumptive <i>Pseudomonas</i> spp	Documented In-House Method EUMM4.03	A
	- Presumptive Sulphite Reducing Clostridial Spores	Documented In-House Method EUMM4.04 based on "The Microbiology of Drinking Water 2007"	A
	Enumeration and Confirmation of : - Total coliforms - Faecal coliforms	Documented In-House Method EUMM4.01	A
	- <i>Pseudomonas aeruginosa</i>	Documented In-House Method EUMM4.03	A
	- Faecal <i>enterococci</i>	Documented In-House Method EUMM4.05 based on "The Microbiology of Drinking Water 2006"	A



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WATERS (cont'd) Drinking waters Ground waters Non-saline waters (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods based on "The Microbiology of Drinking Water 2002" unless stated otherwise (cont'd)	
	Clostridium Perfringens (presumptive and confirmed)	Documented In-House Method EUMM4.04 based on "The Microbiology of Drinking Water 2007"	A
	Coliforms and <i>E coli</i> (MPN)	Documented In-House Method EUMM4.07 using Colilert	A
	Isolation and Enumeration of : - <i>Legionella</i> spp <i>Legionella pneumophila</i> , serogroup 1 <i>Legionella pneumophila</i> , serogroups 2-14	Documented In-House Method EUMM4.06 based on British Standard 6068, Part 4.12:1998 and ISO 11731:1998	A
Drinking waters filtered through Genera Filters	Cryptosporidium	Documented In-House method using ims and microscopy	S
	<u>Chemical Tests</u>		
Drinking waters Ground waters Non-saline waters	Alkalinity	Documented In-House Methods using Automated and Manual titration based on DOE/SCA	S
	Colour	Documented In-House Method based on DOE/SCA using Vis Spectrophotometry	S
	Conductivity	Documented In-House Method based on DOE/SCA using an automated conductivity meter	S
	Cyanide, free and total	Documented In-House Method by automated colorimetric analysis	H
	Bromide Chlorate Chlorite	Documented In-House Method using HPLC with suppressed conductivity detection	H
	Bromate	Documented In-House Method using Ion Chromatography with UV detection	H



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking waters Ground waters Non-saline waters (cont'd)	Fluoride	Documented In-House Method using ion selective electrode (automated)	S
	Kjeldahl Nitrogen (by calculation: Total N minus TON)	Documented In-House Method by calculation	S
	Oxidisability (PI)	Documented In-House Method using DOE/SCA titration	S
	pH	DOE/SCA + Documented In-House Method using automated pH electrode	S
	Turbidity	Documented In-House Method using DOE/SCA using Nephelometry	S
	Monohydric phenols	Documented In-House Method using DOE/SCA using colorimetry	H
	Total organic carbon	Documented In-House Method using UV oxidation followed by non-dispersive IR spectrophotometry	H
	Ammonium Chloride Nitrate Nitrite Ortho-phosphate Sulphate Total oxidised nitrogen (TON)	Documented In-House Methods using colorimetric auto-analysis calculated result based on TON and Nitrite	S
	Surfactants	Documented In-House Method using automated solvent extraction and colorimetry	H
	Total phosphate	Documented In-House Method using ICP-OES	S



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking waters Ground waters Non-saline waters (cont'd)	Inorganic Analysis: Aluminium Antimony Arsenic Barium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Zinc	Documented In-House Method using Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	S
	Beryllium Boron Cobalt Molybdenum Silica Strontium Vanadium	Documented In-House Method using ICP-MS	S
	Mercury	Documented In-House Method using Cold Vapour Atomic Fluorescence Spectrometry	S
Waters, Sewage and Liquid Effluents	Total Nitrogen	Documented In-House Method using TN-100 Analyser	S



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<p>WATERS (cont'd)</p> <p>Drinking waters Ground waters Non-saline waters (cont'd)</p>	<p><u>Organic Analysis:</u> (cont'd)</p> <p>Organochlorine Insecticides including: (cont'd)</p> <p>Aldrin Endrin Dieldrin Isodrin op-DDT pp-DDT op-DDE pp-DDE op-TDE pp-TDE Total chlordane Chlorthal dimethyl PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Methoxychlor Alpha endosulphan Beta endosulphan Diflufenican Cis-Chlordane Trans-chlordane</p> <p>Organophosphorus Pesticides and DCM Extractable including:</p> <p>Dichlorvos Dimethoate Propetamphos Diazinon Fenitrothion Malathion Parathion-ethyl Mecarbam Triazophos Carbophenothion Azinphos-methyl Heptenophos Chlorfenvinphos Chlorpyrifos-ethyl</p>	<p>Documented In-House Method using pentane extraction and GC/ECD</p> <p>Documented In-House Method based on DoE/SCA using DCM extraction followed by GC/MS</p>	<p>H</p> <p>H</p>



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WATERS (cont'd)	<u>Organic Analysis:</u> (cont'd)		
Drinking waters Ground waters Non-saline waters (cont'd)	Carbamates and Related Compounds: Carbendazim (Benomyl as Carbendazim) Bromacil	Documented In-House Method using solid phase extraction and LC/MS/MS	H
	Dalapon TCA (Tichloroacetic acid)	Documented In-House Method using solid phase extraction and GC/MS/MS	H
	Polynuclear Aromatic Hydrocarbons including: Fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(α)pyrene Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene	Documented In-House Methods using solvent extraction and HPLC with fluorescence detection	H
	Miscellaneous Herbicides: Atrazine Simazine Propazine Prometryne Trietazine Terbutryn Desmetryn Propiconazole Triadimefon Tebuconazole Flutriafol Flusilazole Cyproconazole Terbuthylazine Chlortoluron Isoproturon Diuron Linuron Carbetamide Methabenzthiazuron Cyanazine Pirimicarb Metoxuron Monolinuron Chlorpropham	Documented In-House Method using solid phase extraction and LC/MS/MS	H



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WATERS (cont'd)	<u>Organic Analysis:</u> (cont'd)		
Drinking waters Ground waters Non-saline waters (cont'd)	Total Petroleum Hydrocarbons and Banding (C11-C12, C12-C16, C16-C21, C21-C35, C35-C39)	Documented In-House Method using GC-FID	H
	Quantitative Taste Quantitative Odour	Documented In-House Methods using assessed panel	H
	<u>Chemical Tests</u>		
Saline Waters	Chemical oxygen demand	Documented In-House Method using spectrophotometry (Dr Lange method)	S
	Saline biochemical oxygen demand	Documented In-House Method using Automated Dissolved Oxygen Electrode	S
	Saline suspended solids	Documented In-House Method using gravimetric technique	S
Process Waters Sewage and waste waters		Documented In-House Methods based on Methods for the examination of Waters and Associated Materials, Department of the Environment Standing Committee of Analysts (DOE/SCA)	
	Alkalinity		S
	Biochemical Oxygen-Demand		S
	Colour	using Vis spectrophotometry	S
	Conductivity	using an automated conductivity meter	S
	Chemical Oxygen-Demand	using Dr Lange's method	S
	Cyanide, Total and Free	by colorimetry using Automated Analyser	H
	Fluoride	using ion selective electrode	S



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Process Waters Sewage and waste waters (cont'd)	Kjeldahl Nitrogen (by calculation)	Calculation method	S
	Oxidisability (PI)	DOE/SCA by titration	S
	pH	DOE/SCA by automated pH electrode	S
	Suspended solids (105°C)	DOE/SCA by gravimetry	S
	Suspended solids (500°C)	DOE/SCA by gravimetry	S
	Total hardness	by automated ISE/EDTA Titration	S
	Turbidity	DOE/SCA using nephelometry	S
	Monohydric phenols	DOE/SCA using flow injection colorimetry	H
	Ammonium Chloride Nitrate Nitrite Ortho-phosphate Sulphate Total oxidised nitrogen] Documented In-House Methods using Discrete colorimetric auto-analysis calculation based on TON and Nitrite	S
	Surfactants		using complexometric extraction and colorimetry
	Total phosphate	using ICP-OES	S
	Dissolved organic carbon Total organic carbon	using UV oxidation followed by non-dispersive IR Spectrophotometry	H
	(and clean waters)	Mineral oils	Solvent extraction followed by Infra-Red Spectroscopy
(and clean waters)	Chlorophyll a Phaeophytin	ISO/DIS 10260 using Spectrophotometry	S



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
River Water, Trade Effluent, Sewage Effluent, Sewage	Phenols (Total)	Documented In-House Method using HPLC and Electrochemical Detection	H
	<u>Inorganic Analysis:</u>	Documented In-House Methods using:	
Waste Waters Effluents, Leachates and Associated Aqueous Materials	Aluminium	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)	S
	Antimony	Hydride Generation followed by	S
	Arsenic	Atomic Fluorescence Spectroscopy	
	Barium	ICP-OES	S
	Cadmium	ICP-OES	S
	Calcium	ICP-OES	S
	Chromium	ICP-OES	S
	Cobalt	ICP-OES	S
	Copper	ICP-OES	S
	Iron	ICP-OES	S
	Lead	ICP-OES	S
	Lithium	ICP-OES	S
	Magnesium	ICP-OES	S
	Manganese	ICP-OES	S
	Mercury	Cold Vapour Atomic Fluorescence Spectrometry	S
	Molybdenum	ICP-OES	S
	Nickel	ICP-OES	S
	Potassium	ICP-OES	S



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WATERS (cont'd)	<u>Inorganic Analysis:</u> (cont'd)		
Waste Waters Effluents, Leachates and Associated Aqueous Materials (cont'd)	Selenium	Hydride Generation followed by Atomic Fluorescence Spectroscopy	S
	Silver	ICP-OES	S
	Sodium	ICP-OES	S
	Strontium	ICP-OES	S
	Tin	ICP-OES	S
	Vanadium	ICP-OES	S
	Zinc	ICP-OES	S
	Phosphorus	ICP-OES	S
	<u>Chemical Tests</u>		
Waste Waters Sludges	Volatile Fatty Acids: Acetic acid Propionic acid iso-butyric acid n-butyric acid iso-valeric acid iso-caproic acid n-caproic acid n-valeric acid	Documented In-House Method using GC/FID	H
Waste Waters	Volatile Organic Compounds: Vinyl Chloride MTBE 1,1 Dichloroethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride Benzene 1,2 Dichloroethane Trichloroethene Bromodichloromethane 1,3 Dichloropropene (cis) 1,3 Dichloropropene (trans) Toluene 1,1,2 Trichloroethane Tetrachloroethene	Documented In-House Method based on ISO 78-2:1999 using ITEX GC-MS	H



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Waste Waters (cont'd)	Phenoxyalkanoic Acid Herbicides: (cont'd)	Documented In-House Method using solid phase extraction, derivatisation and GC/MS	H
	Picloram Clopyralid		
	Organochlorine Insecticides including: Alpha-HCH Beta-HCH Gamma-HCH Delta-HCH Hexachlorobenzene Hexachlorobutadiene Heptachlor Heptachlor epoxide (trans) Tecnazene Trifluralin Aldrin Endrin Dieldrin Isodrin op-DDT pp-DDT op-DDE pp-DDE op-TDE pp-TDE Total chlordane Chlorthal dimethyl PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Methoxychlor Alpha endosulphan Beta endosulphan Diflufenican Cis-Chlordane Trans-chlordane	Documented In-House Method using pentane extraction and GC/ECD	H



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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) Waste Waters (cont'd)	<u>Chemical Tests</u> (cont'd) Miscellaneous Herbicides: Atrazine Simazine Propazine Prometryne Trietazine Terbutryn Desmetryn Propiconazole Triadimefon Tebuconazole Flutriafol Flusilazole Cyproconazole Terbutylazine Chlortoluron Isoproturon Diuron Linuron Carbetamide Methabenzthiazuron Cyanazine Pirimicarb Metoxuron Monolinuron Chlorpropham	Documented In-House Method using solid phase extraction and LC/MS	H
	Total Petroleum Hydrocarbons and Banding (C11-C12, C12-C16, C16-C21, C21-C35, C35-C39)	Documented In-House Method using GC-FID	H
	Metaldehyde	Documented In-House method using GC-MS	H
	<u>Radiochemical Tests</u>		
Potable Water, River and Borehole Waters, and Effluents	Gross Alpha Gross Beta	Documented In-House Method using Gas Proportional Counting	H



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PORTABLE GAS DETECTORS			
Crowcon Tetra	Client specified response on exposure to certified gases (CH ₄ , O ₂ , H ₂ S, Cl ₂ , SO ₂ , CO)	Documented In-House Procedure GMFS 331 incorporating requirements of HSE Publication EH40	S
SOILS, LANDFILL SITES AND AMBIENT AIR	<u>Chemical and Physical Tests</u>	Documented In-House Methods	
	Methane Carbon Dioxide Oxygen	PPQ 355 using GA94 Landfill Gas Monitoring Analyser	D
	Relative Pressure Flow Rate	PPQ 356 using Gas Data GF60 Relative Pressure/Flowmeter	D
GROUNDWATERS, LEACHATES AND SURFACE WATERS	<u>Sampling</u>		
	For Chemical Testing	PPQ 354	D
POTABLE AND RAW WATERS	<u>Sampling</u>		
	For Chemical and Microbiological Testing		
From Reservoirs, Water Treatment Works, Hydrants, Household and Industrial Potable Water Taps	<u>On-Site Testing</u>	Documented In-house Procedures in the Manual of Sampling	D
	Residual Chlorine pH		
WASTE WATER	<u>Sampling</u>		
From Waste Water Treatment Works and other Waste Water Sources	For Chemical and Microbiological Testing for the Purpose of Enforcement of the Urban Waste Water (England & Wales) Regulations 1994	Documented In-house Procedures in the Manual of Sampling	D
END			