


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1229</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Severn Trent Laboratories, Bridgend</h3> <p>Issue No: 039 Issue date: 04 June 2010</p>	
	<p>Bridgend Science Park 2 Technology Drive Bridgend Mid-Glamorgan CF31 3NA</p>	<p>Contact: Mrs M J Harman Tel: +44 (0)1656 647557 Fax: +44 (0)1656 646525 E-Mail: michelle.harman@stl-ltd.com Website: www.stl-ltd.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS</p> <p>Potable, Raw, Surface and Groundwaters</p>	<p><u>Bacteriological Tests</u></p> <p><u>Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184).</u> <u>The testing is in accordance with the Drinking Water Testing Specification (DWTS)</u></p> <p><i>Clostridium perfringens</i> - Confirmation - Presumptive count - Sulphite reducing clostridia</p> <p><i>Enterococci faecal</i> - Confirmation - Presumptive count</p> <p>Viable Micro-organisms - Enumeration</p> <p>Total Coliform and <i>E coli</i></p>	<p>Documented In-House Methods based on the Standing Committee of Analysts Publication "The Microbiology of Water, 2002" unless stated otherwise</p> <p>SAA 12 based on "The Microbiology of Drinking Water, 2004", Part 6 using membrane filtration</p> <p>SAA 2 based on "The Microbiology of Drinking Water, 2006", Part 5 using membrane filtration</p> <p>SAA 4 based on "The Microbiology of Drinking Water, 2007", Part 6 using Pour Plate Method</p> <p>SAA 9 using 'Colilert' SAA 13 using single membrane filtration method</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u></p> <p><u>Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184).</u> <u>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</u></p> <p>Alkalinity</p> <p>Ammoniacal Nitrogen</p> <p>Anionic Surfactants (as Sodium Lauryl Sulphate)</p> <p>Chloride</p> <p>Colour</p> <p>(potable waters only)</p> <p>Bromate Bromide Chlorate Chlorite</p> <p>Conductivity, Specific</p> <p>Cyanide (Total and Free)</p> <p>Fluoride</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, HMSO Publication, Year and ISBN No given where applicable</p> <p>SBC 51 using manual or auto titration</p> <p>HMSO:1981 ISBN 011 751 613 9 SBC 1 using Discrete Colorimetry</p> <p>SBC 42 using Automated Colorimetry</p> <p>HMSO:1981 ISBN 011 751 626 0 SBC 4 using Discrete Colorimetry</p> <p>HMSO:1981 ISBN 011 751 955 3 SBE 5 Manual Method SBE 18 automated spectrophotometric method</p> <p>SBC 58 using Ion Chromatography</p> <p>HMSO:1978 ISBN 011 751 955 3 SBE 14 Manual Method</p> <p>HMSO:1988 ISBN 011 752 219 8 SBC 9 using Continuous Flow</p> <p>HMSO:1982 ISBN 011 752 219 8 SBC 43</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Phenolic Compounds: Phenol 3-Methylphenol 4-Methylphenol 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 3,5-Dimethylphenol 2,3-Dichlorophenol 2,4-Dichlorophenol 2,6-Dichlorophenol, 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,5-Dimethylphenol 4-Chloro-2-Methylphenol 2-Chloro-5-Methylphenol 3-Chloro-4-Methylphenol</p> <p>Acid Herbicides: Dicamba Mecoprop MCPA Dichlorprop 2,4-D MCPB 2,4,5-T 2,4-DB Ioxynil 2,3,6-TBA Fluroxypyr Triclopyr Clopyralid Bentazone Fenoprop Bromoxynil Pentachlorophenol Benazolin</p> <p>Haloacetic Acids: Dalapon Dichloroacetic Acid Trichloroacetic Acid</p>	<p>Documented In-House Methods in the Series SBD 0</p> <p>SBD 29 using Gas Chromatography with Mass Spectrometric Detection</p> <p>SBD 5 using Gas Chromatography with Mass Spectrometric Detection (based on draft SCA Blue Book 1995)</p> <p>SBD 27 using Electron Capture Gas Chromatography</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Benzene Toluene Methyltertiary Butyl Ether (MTBE) p-xylene m-xylene o-xylene Ethylbenzene 1,2 Dichloroethane</p> <p>Halogenated Hydrocarbons: Bromoform Carbon tetrachloride Chloroform Dibromochloromethane Dichlorobromomethane Tetrachlorethylene Trichloroethylene 1,1,1 Trichloroethane</p> <p>Polycyclic Aromatic Hydrocarbons: Benz(b)fluoranthene Benz(k)fluoranthene Benz(a)pyrene Benz(g,h,i)perylene Fluoranthene Indeno(1,2,3-cd)pyrene</p> <p>Organochlorine Pesticides: 1,2,4-Trichlorobenzene Hexachlorobutadiene (HCBd) Dichlobenil Alpha HCH Beta HCH Gamma HCH Delta HCH Hexachlorobenzene (HCB) Chlorothalonil Heptachlor Aldrin Isodrin cis - heptachlor epoxide trans-heptachlor epoxide Heptachlor Epoxide o,p'-DDE Alpha Chlordane Alpha Endosulphan</p>	<p>SBD 28 using Gas Chromatography with Mass Spectrometric Detection</p> <p>SBD 3 using Electron Capture Gas Chromatography</p> <p>SBD 1 using HPLC and Fluorescence detection</p> <p>SBD 30 using Gas Chromatography with Mass Spectrometric Detection and electron capture detection</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Organochlorine Pesticides: (cont'd)</p> <p>Beta Endosulphan p,p'-DDE Dieldrin Endrin o,p'-TDE p,p'-TDE o,p'-DDT p,p'-DDT Methoxychlor Cis-permethrin Trans-permethrin PCB Arachlor (1254) Captan EPTC Tecnazene Trifluralin Disulphoton Fenitrothion PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180 Cyfluthrin Cypermethrin Fenvalerate Deltamethrin</p> <p>Herbicides: Aldicarb Methiocarb Carbaryl Clorpropham Chlorbufam Propham</p>	<p>SBD 30 using Gas Chromatography with Mass Spectrometric Detection and electron capture detection (cont'd)</p> <p>SBD 46 using LC-MS</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Pesticides:</p> <p>Suburea pesticides: Chlortoluron isoproturon diuron linuron methabenzthiazuron monuron carbetamide carbendazim metamitron</p> <p>Organophosphorus pesticides: dichlorvos mevinphos demeton-s-methyl phorate propetamphos diazinon dimethoate pirimiphos methyl chlorpyrifos ethyl chlorpyrifos methyl parathion malathion chlorfenvinphos carbophenothion triazophos phosalone azinphos methyl dichlofluanid heptenophos</p> <p>Organonitrogen pesticides and triazines: simazine atrazine propazine trietazine terbutryne prometryne ametryn fenpropimorph metazachlor bromacil</p>	<p>SBD 48 using LC triple quadrupole MS</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Pesticides: (cont'd)</p> <p>Organonitrogen pesticides and triazines: (cont'd)</p> <p>pendimethalin triallate propyzamide pirimicarb triademefon flutriafol propiconazole diflufenican propachlor ethofumesate cyanazine fenpropidin</p> <p>Herbicides and PCP: Chlopyralid 2,3,6-TBA Benazolin Bentazone Dicamba Fluroxypyr Imazapyr 2,4,5-T 2,4-D 2,4-DB Bromoxynil Dichlorprop Fenoprop Ioxynil MCPA MCPB Mecoprop Triclopyr PCP</p>	<p>SBD 48 using LC triple quadrupole MS (cont'd)</p> <p>SBD 49 using LC triple quadrupole mass spectrometry</p>



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Carbonates, Triazoles and other pesticides: Protham Aldicarb Carbaryl Quinmerac Chloridazon Chlorprotham Clomazone Chlorbufam Methiocarb Fonofos Prosulfocarb Imazapyr Oxadixyl Metalaxyl Cyproconazole Kresoxim-Methyl Flusilazole Epoxiconazole Flurtamone Flufenacet</p> <p>Asulam</p> <p>Glyphosate</p> <p>Chlormequat Diquat Paraquat</p> <p>Metaldehyde</p> <p>Nitrite as Nitrogen</p> <p>Nitrogen, Total Oxidised</p> <p>Odour, threshold number of treated water</p>	<p>SBD 50.using Solid Phase Extraction and Triple Quadrupole LC/MS/MS - method</p> <p>SBD 36 using HPLC with Mass Spectrometry Detection</p> <p>SBD 37 using HPLC with Mass Spectrometry Detection</p> <p>SBD 41 using LC-MS</p> <p>SBD 43 using Gas Chromatography with mass Spectrometric Detection</p> <p>HMSO:1981 ISBN 011 751 593 0 SBC 2 using Discrete Colorimetry</p> <p>HMSO:1981 ISBN 011 751 593 0 SBC 39 using Discrete Colorimetry</p> <p>SAA 8 Quantitative</p>
<p>Potable water only</p>		



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Potable, Raw, Surface and Groundwaters (cont'd)	Odour	SAA 11 Qualitative
	Organic Carbon	SBE 6 using Ultra-Violet Photolysis
	Orthophosphate	HMSO:1980 ISBN 011 751 582 5 SBC 5 using Discrete Analyser
	Permanganate Index	HMSO:1983 ISBN 011 751 960 X SBE 1
	pH	HMSO:1978 ISBN 011 751 428 4 SBE 13 Manual Method
	pH, Conductivity, Turbidity	SBE 17 by Aqualyser and Skalar
	Phosphorous, Total Inorganic	HMSO:1980 ISBN 011 751 582 5 SBC 6 using Discrete Colorimetry
	Silicate	SBC 47 using Discrete Analyser
	Sulphate	HMSO:1988 ISBN 011 751 240 6 SBC 7 using Discrete Analyser
	Taste, Threshold number of treated water	SAA 8, Quantitative
	Taste	SAA 11, Qualitative
	Turbidity	HMSO:1978 ISBN 011 751 955 3 SBE 15 Manual Method
	Metals: Aluminium Antimony Arsenic Beryllium Boron Barium Cadmium Calcium	SBC 44 using ICPMS



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WATERS (cont'd) Potable, Raw, Surface and Groundwaters (cont'd) Potable Water only	<u>Radiochemical Tests</u> Gross alpha and beta activity Tritium	SBC 61 SBC 62 using liquid scintillation counting
	END	