


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1314</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Severn Trent Laboratories - Coventry</h3> <p>Issue No: 043 Issue date: 01 June 2010</p>	
	<p>STL Business Centre Torrington Avenue Coventry West Midlands CV4 9GU</p>	<p>Contact: Ms C Peacock Tel: +44 (0)2476 856458 Fax: +44 (0)2476 856575 E-Mail: claire.peacock@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>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p>	<p><u>Chemical Tests and Physical Tests</u></p> <p>Pentachlorophenol</p> <p>Substituted Urea and Triazine Herbicides: Chlortoluron Diuron Isoproturon Linuron Methabenzthiazuron Monolinuron Monuron</p> <p>Phenoxy Acid Herbicides and Benzonitrile Herbicides: Ioxynil 2,4,5-T Mecoprop Bromoxynil Dicamba Dichlorprop 2,4-DB MCPB 2,4-D 2,3,6-TBA MCPA</p>	<p>Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM) referenced by the ISBN number and additional or alternative references are identified as appropriate</p> <p>GEO 20</p> <p>GEO-37 by LC</p> <p>GEO-20</p>



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<p>WATERS: (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Phenoxy Acid Herbicides and Benzonitrile Herbicides: (cont'd)</p> <p>Benazolin Bentazone Clopypalid Trichlopyr Fenoprop Fluoroxypyr</p> <p>Organotin Compounds: Di-n-butyltin Tri-n-butyltin Triphenyltin</p>	<p>GEO 24</p>
<p>WATERS</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p> <p>Clean waters</p>	<p>VOCs: Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene</p>	<p>GEO 43</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>VOCs: (cont'd)</p> <p>Dichloromethane 1,2-Dichloropropane 1,3 -Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethyl Benzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene MTBE Naphthalene n-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride m,p-Xylene o-Xylene</p> <p>Phenols: phenol 2-chlorophenol o-cresol m/p-cresol 2-nitrophenol 2,4-dimethylphenol 3,5-dimethylphenol 2,4-dichlorophenol 4-chlorophenol 2,6-dichlorophenol</p>	<p>GEO18 by GC-MS</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Phenols: (cont'd)</p> <p>4-chlor-3-methylphenol 2,4,6-trichlorophenol 2,4,5-trichlorophenol 4-nitrophenol 2,3,4,6-tetrachlorophenol 2,4-dinitro-2methylphenol (DNOC) pentachlorophenol dinoseb</p> <p>Pesticides:</p> <p>1,3,5 trichlorobenzene 1,2,4 trichlorobenzene hexachlorobutadiene 1,2,3 trichlorobenzene dichlorvos dichlobenil EPTC mevinphos heptenophos tecnazene propachlor demeton-s-methyl 2,4 D-methyl trifluralin chlorpropham bendiocarb 2,4, D-ethyl phorate alpha-HCH hexachlorobenzene 2,4 D-isopropyl dimethoate simazine atrazine propazine beta-HCH propetamphos diazinon propyzamide gamma-HCH disulphoton etrimphos triallate</p>	<p>GEO-47 by SPE and GC-MS-MS</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Pesticides: (cont'd)</p> <p>pirimicarb delta-HCH 2,4 D-n-butyl 2,4-D-iso-butyl PCB 28 parathion methyl alachlor ametryn prometryn heptachlor pirimiphos methyl terbutryn fenpropidin ethofumesate fenitrothion bromacil malathion PCB52 cyanazine chlorpyrifos chlorthal-dimethyl fenpropimorph fenthion parathion ethyl triademefon aldrin pendimethalin metazochlor chlorfenvinphos isodrin heptachlor epoxide mecarbam op'-DDE cis-chlordane PCB101 trans-chlordane alpha endosulphan flutriafol pp'-DDE flusilazole op'-TDE dieldrin endrin</p>	



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Surface water and groundwater</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Pesticides: (cont'd)</p> <p>PCB 118 Cyproconazole Ethion pp'-TDE op'-DDT beta endosulphan triazophos PCB 153 carbophenothion propiconazole pp'-DDT PCB 138 iprodrone terbuconazole diflufenican PCB180 phosalone coumaphos azinphos methyl azinphos ethyl cis-permethrin trans-permethrin cyfluthrin cypermethrin pentachlorobenzene trietazine</p> <p>Mecoprop</p>	<p>GEO 49 using GCMS</p>
<p>WATERS</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters</p>	<p>SVOC:</p> <p>Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(f)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroisopropyl)ether Bis(-2chloroethyl)ether Bis(2-ethylhexyl)phthlate Butylbenzylphthalate</p>	<p>GEO 40 Qualitative identification of non target compounds using GC-MSD (TIC)</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOC: (cont'd)</p> <p>4-Bromophenyl-phenylether Carbazole Chrysene 2-Chlorophenol 2-Chloronaphthalene 4-Chloro-3methylphenol 4-Chlorophenyl-phenylether Dibenz(a,h)anthracene 1, 2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate 2,4-Dichlorophenol 2,4-Dimethylphenol 2, 4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone 2-Methylnaphthalene Naphthalene Nitrobenzene N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenanthrene Phenol Pyrene 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Aldrin Alpha-Endosulphan</p>	



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOCs: (cont'd)</p> <p>alpha-HCH Ametryn Atrazine Azinphos-Ethyl Azinphos-Methyl beta-Endosulphan beta-HCH Bromacil Captan Carbophenothion Chlorfenvinphos cis-Chlordane Cyanazine delta-HCH Demeton-S-Methyl Diazinon Dichlobenil Dichlorvos Dieldrin Diflufenican Dimethoate Disulphoton Endrin Ethofumesate Fenitrothion Fenpropidin Fenpropimorph Fenthion Flutriafol gamma-HCH Heptachlor Heptachlor Epoxide Hexachlorobenzene Isodrin Isoproturon Linuron Malathion Metazochlor Mevinphos Monolinuron Monuron op-DDE op-DDT</p>	



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOCs: (cont'd)</p> <p>op-TDE Parathion-Ethyl Parathion-Methyl PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 28 PCB 52 Pendimethalin Phorate Phosalone Pirimicarb Pirimiphos-Methyl pp-DDE pp-DDT pp-TDE Prometryn Propachlor Propazine Propetamphos Propiconazole Propyzamide Simazine TCEP Tecnazene Terbutryn trans-Chlordane Triademefon Triallate Triazophos Tributyl Phosphate Trietazine Trifluralin</p>	



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>VOC:</p> <p>Chloromethane Chloroethane Bromomethane Vinyl Chloride Trichlorofluoromethane 1, 1-Dichloroethene Methylene Chloride Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1-Dichloropropene 1,3-Dichloropropane Dibromochloromethane 1,2-Dibromoethane Tetrachloroethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m&p-Xylene Bromoform Styrene 1,1,2,2-Tetrachloroethane o-Xylene 1,2,2-Trichloropropane Isopropylbenzene Bromobenzene 2-Chlorotoluene n-Propylbenzene 4-Chlorotholuene 1,3,5-Trimethylbenzene Tert-Butylbenzene Sec-Butylbenzene p-Isopropyltoluene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-Chloropropane</p>	<p>GEO 32 Qualitative identification of non target compounds using GC-MSD (TIC)</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>VOC: (cont'd)</p> <p>1,2,4-Trichlorobenzene Benzene Carbon Tetrachloride 1,2-Dichloropropane Trichloroethene (TCE) Dibromomethane Bromodichloromethane Cis/Trans-1,3-Dichloropropene Toluene 1,1,2-Trichloroethene</p> <p>PAHs and Pesticides: 1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene Hexachlorobutadiene Dichlobenil Tecnazene Trifluralin alpha HCH beta HCH gamma HCH delta HCH Hexachlorobenzene Triallate Heptachlor Heptachlor Epoxide Aldrin Isodrin Dieldrin Endrin Endosulphan a Endosulphan b cis-Chlordane trans - Chlordane op DDE pp DDE op TDE pp TDE op DDT pp DDT cis Permethrin</p>	<p>GEO 48 using solid phase extraction (SPE) and GC-MS</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p> <p>Not clean waters</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>PAHs and Pesticides: (cont'd)</p> <p>trans Permethrin Cyfluthrin Cypermethrin PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180 Dichlorvos Mevinphos Phorate Dimethoate Demeton - S - methyl Propetamphos Diazinon Disulphoton Etrimphos Parathion methyl Pirimiphos-methyl Fenitrothion Malathion Chlorpyrifos Fenthion Parathion Chlorfenvinphos Ethion Triazophos Carbophenothion Phosalone Azinphos-methyl Azinphos-ethyl Coumaphos EPTC Propachlor Simazine Atrazine Propazine Trietazine Propyzamide Pirimicarb Ametryn</p>	



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>PAHs and Pesticides: (cont'd)</p> <p>Prometryn Terbutryn Ethofumesate Cyanazine Pendimethalin Metazochlor Diflufenican Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene</p> <p>Total Volatile Petroleum Hydrocarbons (VPH) C5-C10, including aromatic/aliphatic fractionation and quantification according to carbon banding, typically: >C5-C7 >C6-C8 >C8-C10 Also: Benzene Toluene Ethylbenzene o-xylene m/p xylene</p>	<p>GEO-45 using GC-FID and GC-MS-FID</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p> <p>Clean waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Total Extractable Petroleum Hydrocarbons (EPH) C10-C44, including aromatic/aliphatic fractionation and quantification according to carbon banding, typically: >C10-C12 >C12-C16 >C16-C21 >C21-C44 >C10-C16 >C16-C24 >C24-C44</p>	<p>GEO-46 using GC-FID</p>
<p>WATERS</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p>	<p>VOCs (Boiling point range -30° - 220°C)</p> <p>SVOCs (Boiling point range 100° - 500°C)</p>	<p>GEO 32, Qualitative identification of non target compounds using GC-MSD (TIC)</p> <p>GEO 40, Qualitative identification of non target compounds using GC-MSD (TIC)</p>
<p>WATERS</p> <p>Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters</p>	<p>Alkyl (nonyl) phenols: Tert-octylphenol 4-n-nonylphenol</p>	<p>GEO 51 using GC-MS</p>
<p>WASTEWATERS; Untreated and treated domestic and industrial wastewaters and; LEACHATES (from landfill sites)</p> <p>And surface and groundwaters</p>	<p>PAHs: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)Anthracene Chrysene Benzo(b)Fluoranthene Benzo(a)Pyrene Dibenzanthracene Indeno(123-cd)Pyrene Benzo(ghi)Perylene Benzo(k)Fluoranthene</p>	<p>GEO 19</p>



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<p>WASTEWATERS; Untreated and treated domestic and industrial wastewaters and; LEACHATES (from landfill sites) (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Alkalinity Chemical Oxygen Demand Oxygen; Dissolved</p> <p>Total Petroleum Hydrocarbons (C6-C40)</p>	<p>WAS-025 WAS-003/WAS-004/WAS-040 WAS-052</p> <p>GEO-35</p>
<p>WATERS</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites)</p>	<p>MTBE Chloroform 1,1,1 Trichloroethane 1,2 Dichloroethane Carbon Tetrachloride Benzene Trichloroethene Bromodichloromethane Toluene 1,1,2, Trichloroethane Tetrachloroethene Dibromochloromethane Ethylbenzene m&p Xylene o Xylene Styrene Bromoform 1,1,2,2 Tetrachloroethane</p> <p>Anionic detergents (MBAS) Nonionic detergents Ammoniacal nitrogen Chloride Colour Cyanide: Total Cyanide: Free Cyanide: Total excluding iron cyanides Cyanide complex (by calculation) Total nitrogen: Kjeldahl (by calculation) Nitrate (Oxidised Nitrogen - Nitrite) Nitrite Orthophosphate Phenol, monohydric Thiocyanate</p>	<p>WAS 058 using Headspace GC/MS</p> <p>WAS-020 WAS-032 WAS-036 WAS-036 WAS-027 WAS-018 WAS-018 WAS-018 WAS-018 WAS-018 WAS-022 WAS-022 (by calculation) WAS-036 (by calculation) WAS-036 WAS-036 WAS-019 WAS-034</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites) (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Sulphide Oxidised Nitrogen Chromium VI</p> <p>Sulphate</p> <p>Ammoniacal Nitrogen</p> <p>Biochemical Oxygen Demand</p> <p>Fluoride</p> <p>pH and conductivity</p> <p>Sulphate</p> <p>Solids: Suspended : Non-volatile (Ash)</p> <p>Oils (NVM)</p> <p>Total organic carbon</p> <p>Volatile fatty acids</p> <p>Metals: Aluminium Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Phosphorous Potassium</p>	<p>WAS-033 WAS-036 WAS-031</p> <p>CON-27 by ion chromatography</p> <p>WAS-055</p> <p>WAS-001</p> <p>WAS-029</p> <p>WAS-039 by manual and automated techniques</p> <p>WAS-036</p> <p>WAS-006 WAS-007</p> <p>WAS-026</p> <p>WAS 005</p> <p>CON-17</p> <p>WAS-049</p>



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<p>WATERS (cont'd)</p> <p>Untreated and treated domestic and industrial wastewaters and leachate (from landfill sites) (cont'd)</p> <p>And surface and groundwater saline waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Elements: (cont'd)</p> <p>Sodium Strontium Thallium Tin Titanium Uranium Vanadium Zinc Zirconium</p>	
<p>WATERS</p> <p>Groundwaters</p>	<p><u>Chemical Tests and Physical Tests</u></p> <p>Ammonia Colour Turbidity</p>	<p>WSI-044 WSI-021 WSI-023</p>
<p>SLUDGES and SEDIMENTS</p>	<p><u>Chemical Tests and Physical Tests</u></p> <p>pH</p> <p>Moisture Total Solids Loss on Ignition</p> <p>Metals: Aluminium Arsenic Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese</p>	<p>Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM) referenced by the ISBN number and additional or alternative references are identified as appropriate</p> <p>CON-11</p> <p>CON-10</p> <p>CON-68</p>



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Severn Trent Laboratories - Coventry
Issue No: 043 Issue date: 01 June 2010

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SLUDGES and SEDIMENTS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) Metals: (cont'd) Molybdenum Nickel Potassium Sodium Sulphur (total as SO ₄) Zinc Mercury Fluoride Nitrogen: Total Phosphorus: Total	Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM) referenced by the ISBN number and additional or alternative references are identified as appropriate
SLUDGE	Alkalinity: to pH 4.5 and 8.3 Volatile Fatty Acids Metals: Arsenic Selenium Antimony	CON-19 CON-15 CON-18 CON-18 CON-13 CON-17 CON-21
LAND (a component part of which is SOIL)	pH Total solids] Loss on ignition Moisture, air dry Metals: Aluminium Arsenic Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese	CON-11 CON-10 CON-10 CON-68



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<p>WATERS Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>BTEX: (cont'd)</p> <p>o-Xylene Styrene Bromoform 1,1,2,2-Tetrachloroethane</p> <p>Organotin compounds: Tributyltin Triphenyltin</p> <p>VOC: Dichlorodifluoromethane Chloromethane Vinyl Chloride Chloroethane Bromomethane Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-Dichloroethane Benzene 1,2-Dichloropropane Trichloroethene Bromodichloromethane Dibromomethane cis-1,3-Dichloropropene Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent (cont'd)</p> <p>GEO 24 using GCMS</p> <p>GEO 32 using Purge and trap GCMS</p>



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<p>WATERS Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>VOC: (cont'd)</p> <p>Ethyl Benzene m,p-Xylene o-Xylene Styrene Bromofom Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene</p> <p>Phenols (high and low level): phenol 2-chlorophenol o-cresol m/p-cresol 2-nitrophenol 2,4-dimethylphenol 3,5-dimethylphenol 2,4-dichlorophenol 4-chlorophenol 2,6-dichlorophenol 4-chloro-3-methylphenol 2,4,5-trichlorophenol</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent (cont'd)</p> <p>GEO 18 using GCMS</p>



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<p>WATERS Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Pesticides: alpha-HCH beta-HCH gamma-HCH Aldrin Dieldrin Endrin Isodrin op'-DDE pp'-DDE op'-TDE pp'-TDE op'-DDT pp'-DDT Simazine Atrazine Propazine Prometryn Terbutryn Trietazine Phorate Diazinon Parathion-Methyl Pirimiphos-Methyl Fenitrothion Chlorpyrifos Fenthion PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180 cis-Permethrin trans-Permethrin Cyfluthrin Cypermethrin</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent (cont'd)</p> <p>GEO 47 using by SPE and GCMSMS</p>



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<p>WATERS Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>SVOCs: Phenol 2-Chlorophenol 2-Methylphenol 2,4-Dimethylphenol 2,4-Dichlorophenol Hexachlorobutadiene Nitrobenzene 2,6-Dinitrotoluene 4-Nitrophenol 2,4-Dinitrotoluene Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Carbazole Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)Pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene</p> <p>PAH: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)Anthracene Chrysene</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent (cont'd)</p> <p>GEO 40 using GC-MS</p> <p>GEO 19 using GCMS</p>



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<p>WATERS Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>PAH: (cont'd)</p> <p>Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(a)Pyrene Indeno(123cd)Pyrene Dibenzo(ah)Anthracene Benzo(ghi)Perylene</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent (cont'd)</p>
<p>Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters</p>	<p>Alkyl (nonyl) phenols: Tert-octylphenol 4-n-nonylphenol</p>	<p>GEO 51 using GC-MS</p>
<p>WATERS Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters</p>	<p><u>Chemical Tests Inorganic</u></p> <p>Metals: Aluminium Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Strontium Thallium Tin Titanium Vanadium Zinc</p>	<p>(WAS 049):using ICP</p>
	<p><u>Chemical Tests</u></p> <p>Fluoride</p> <p>pH</p>	<p>WAS 029 using ISE</p> <p>WAS 039 using Manual and automated pH probe</p>



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters (cont'd)	Sulphide	WAS 033 using Spectrophotometer	
	Suspended Solids	WAS 006 using gravimetric analysis	
	Alkalinity	WAS 025 using Autotitration	
	BOD	WAS 001 using BOD robot and oxygen probes	
	COD	WAS 040 and WAS003 using Open digestion and titration//closed digestion and titration/HACH and Palintest colorimetric	
	Hydride Metals: Arsenic Selenium	WAS 051 using ICPMS	
	Total P	WAS 051 using ICP	
	Mercury	STL Method WAS013 using Cold vapour fluorescence	
	Sulphate	WAS036 using Konelab discrete analyser	
	Nitrogen kjeldahl	WAS022 (calc) Continuous flow	
	Nitrogen total	WAS022 Continuous flow with UV/persulphate oxidation	
	Treated sewage effluent	Chloride, Nitrite Soluble Reactive Phosphorus	WAS036 using Konelab discrete analyser
		Cyanide: total, free and complex	WAS018 Continuous flow with UV digestion where required
	Detergents (anionic, MBAS)	WAS020 Continuous flow	
	Turbidity	WSI023 Turbidimeter	
	Phenols Monohydric colorimetric	WAS019 Continuous flow	



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Treated sewage effluent, untreated sewage	Ammonia, Total Oxidised Nitrogen (TON)	WAS036 using Konelab discrete analyser
Treated sewage effluent, Trade effluent to sewer and controlled waters	Sulphate	CON 027 using Ion chromatography
	Bromide	CON 027 using Ion chromatography
	Hydride Metal: Antimony	WAS 051 using ICPMS
Trade effluent to sewer and controlled waters	COD	WAS 004 using digestion, titration Hach & Palintest colorimetric
	Uranium	WAS 051 using ICP
WATERS	<u>Microbiological Tests</u>	
Raw and Potable Waters	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184). The testing is in accordance with the Drinking Water Testing Specification (DWTS)	Documented In-House Methods based on procedures in the Standing Committee of Analysts Publication "The Microbiology of Water 2002" unless stated otherwise
	Enumeration:	
	Coliforms presumptive and confirmed	W10 by membrane filtration using MLGA
	<i>Escherichia coli</i> , confirmed	W10 by membrane filtration using MLGA
	Coliforms and <i>Escherichia Coli</i>	W22 by MPN technique using Colilert-18 method
	Enterococci, presumptive and confirmed	W7 based on "The Microbiology of Drinking Water, 2006", Part 5 using membrane filtration
	Coliforms and <i>Escherichia Coli</i>	W22 by MPN technique using Colilert-18 method
	Sulphite reducing clostridia, including <i>clostridium perfringens</i> presumptive and confirmed	W8 by membrane filtration using TSC Agar



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WATERS (cont'd) Raw and Potable Waters (cont'd)	<u>Microbiological Tests</u> Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184). The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Enumeration: (cont'd) Total aerobic micro-organisms (colony count) at 22 °C, 37 °C and at 30 °C <i>Salmonella</i> spp, detection and confirmation <i>Pseudomonas</i> spp, presumptive and confirmed <i>Pseudomonas aeruginosa</i> , confirmed	Documented In-House Methods based on procedures in the Standing Committee of Analysts Publication "The Microbiology of Water 2002" unless stated otherwise (cont'd) W1 By Pour Plate W2 W9 by membrane filtration using CFC Agar W11 by membrane filtration using CN Agar
Recreational Waters	Enumeration of Coliforms and <i>Escherichia coli</i> - presumptive	W26 by membrane filtration using MLSB
Soils, sludges and sediments	<i>E coli</i> (per g dry weight) <i>E coli</i> (per g dry weight) <i>Salmonella</i> spp (per g dry weight) Identification and Enumeration:	Documented In-House Method W25 based on "The Microbiology of Sewage Sludge, 2003", Parts 1-4, using MPN technique (Colilert-18) Documented In-House Method W24 based on "The Microbiology of Sewage Sludge, 2003", Parts 1-4, using membrane filtration W2 using membrane filtration
Waters from domestic supply, process waters, cooling towers and potable water	<i>Legionella</i> spp <i>Legionella pneumophila</i> serogroups 1 and 2-14	W5 based on BS 6068-4.12:1998 (ISO 11731:1998)
	END	