


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1314 Accredited to ISO/IEC 17025:2005	Severn Trent Laboratories - Coventry	
	Issue No: 055 Issue date: 07 February 2012	
	STL Business Centre Torrington Avenue Coventry West Midlands CV4 9GU	Contact: Ms C Peacock Tel: +44 (0)2476 856458 Fax: +44 (0)2476 856575 E-Mail: claire.peacock@stsanalytical.com Website: www.stsanalytical.com
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 STL Business Centre Torrington Avenue Coventry West Midlands CV4 9GU	Local contact Ms C Peacock Tel: +44 (0)2476 856458 Fax: +44 (0)2476 856575 Email: claire.peacock@stsanalytical.com	Environmental Analysis Support Functions: Quality management including auditing, document control, reporting	TA



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This schedule is ordered as follows:

Section 1

ISO 17025 + DWTS

Microbiology and Cryptosporidium

Section 2

ISO 17025 + MCERTS (waters)

Inorganic chemistry

Organic Chemistry

Section 3

ISO 17025 + MCERTS (soils)

Inorganic chemistry

Organic chemistry

Section 4

ISO 17025 only

Asbestos

Inorganic chemistry Soils

Inorganic chemistry Waters

Organic chemistry Soils

Organic chemistry Waters

Microbiology

Note: Accreditation to MCERTS automatically confers an equivalent accreditation to ISO 17025.



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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
SECTION 1			
WATERS	<u>Microbiological Tests</u>		
Raw, Potable Waters and Surface waters	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2009 (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 Drinking Water " unless stated otherwise	
Raw, Potable Waters and Surface waters	Enumeration: Coliforms presumptive and confirmed	W10 by membrane filtration using MLGA followed by Colilert confirmation	TA
Raw and Potable Waters and Surface waters	<i>Escherichia coli</i> , confirmed	W10 by membrane filtration using MLGA followed by Colilert confirmation	TA
Raw and Potable Waters	Coliforms and <i>Escherichia Coli</i>	W22 by MPN technique using Colilert-18 method	TA
Raw and Potable Waters	Enterococci, presumptive and confirmed	W7 based on "The Microbiology of Drinking Water", Part 5 using membrane filtration	TA
Raw and Potable Waters	Coliforms and <i>Escherichia Coli</i>	W22 by MPN technique using Colilert-18 method	TA
Raw and Potable Waters	Sulphite reducing clostridia, including <i>clostridium perfringens</i> presumptive and confirmed	W8 by membrane filtration using TSC Agar	TA
Raw and Potable Waters	Total aerobic micro-organisms at 22 °C, 37 °C & 30 °C	W1 By Pour Plate	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WATERS (cont'd)</p> <p>Raw, Potable Waters and Surface waters</p> <p>Raw, Potable and Surface waters</p>	<p>Microbiological Tests (cont'd)</p> <p>Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2009 (SI 2000/3184). The testing is in accordance with the Drinking Water Testing Specification (DWTS)</p> <p>Cryptosporidium</p>	<p>Documented In-House Methods based on procedures in the Standing Committee of Analysts Publication "The Microbiology of Drinking Water " unless stated otherwise</p> <p>Documented procedures CRYM1, CRYM2, & CRYM3 Filtamax® and Filtamax Xpress™, Immuno fluorescent staining for identification by microscopy based on "The Microbiology of Drinking Water" Part 14 (2010)</p>	<p>TA</p>



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SECTION 2			
WASTE WATERS	<u>Organic Chemistry Waters</u> <u>Chemical Tests</u>	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	
Treated sewage effluent, trade effluent to sewer and controlled waters	BTEX: MTBE Chloroform 1,1,1-Trichloroethane 1,2-Dichloroethane Carbon Tetrachloride Benzene Trichloroethene Bromodichloromethane Toluene 1,1,2-Trichloroethane Tetrachloroethene Dibromochloromethane Ethyl Benzene m & p-Xylene o-Xylene Styrene Bromoform 1,1,2,2-Tetrachloroethane	GEO 56 using Headspace GCMS	TA
Treated sewage effluent, trade effluent to sewer and controlled waters	Organotin compounds: Tributyltin Triphenyltin	GEO 24 using GCMS	TA



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WASTE WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	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)	
Treated sewage effluent, trade effluent to sewer and controlled waters	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	GEO 18 using GCMS	TA
Treated sewage effluent, trade effluent to sewer and controlled waters	VOC: Vinyl Chloride Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE Methylene Chloride Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene Chloroform Bromochloromethane 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1-Dichloropropene 1,3-Dichloropropane Dibromochloromethane 1,2-Dibromoethane Tetrachloroethene Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m&p-Xylene Bromoform	GEO 32 using purge and trap GC-MSD	TA



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<p>WASTE WATERS (cont'd)</p> <p>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>Styrene 1,1,2,2-Tetrachloroethane o-Xylene 1,2,3,4-Trichloropropane Isopropylbenzene Bromobenzene 2-Chlorotoluene n-Propylbenzene 4-Chlorotoluene 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 1,2,4-Trichlorobenzene Benzene Carbon Tetrachloride 1,2-Dichloropropane Trichloroethene (TCE) Dibromomethane Bromodichloromethane Cis/Trans-1,3-Dichloropropene Toluene 1,1,2-Trichloroethene Naphthalene 1,2,3-Trichlorobenzene</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 32 using purge and trap GC-MSD</p>	<p>TA</p>



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WASTE WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	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)	
Treated sewage effluent, trade effluent to sewer and controlled waters	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	GEO 40 using GC-MS	TA
Treated sewage effluent, trade effluent to sewer and controlled waters	PAH: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene	GEO 19 using GCMS	TA



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WASTE WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	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)	
Treated sewage effluent, trade effluent to sewer and controlled waters (cont'd)	PAH: (cont'd) Benzo(a)Anthracene Chrysene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(a)Pyrene Indeno(123cd)Pyrene Dibenzo(ah)Anthracene Benzo(ghi)Perylene	GEO 19 using GCMS	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Alkyl (nonyl) phenols: Tert-octylphenol	GEO 51 using GC-MS	TA



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SECTION 2			
WASTE WATERS	Inorganic Chemistry Waters	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	
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Metals: Aluminium Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Tin Titanium Vanadium Zinc	(WAS 049):using ICP	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Fluoride	WAS 029 using ISE	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	pH	WAS 039 using Manual and automated pH probe	TA



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WASTE WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	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)	
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters (cont'd)	Sulphide	WAS 033 using Spectrophotometer	TA
	Suspended Solids	WAS 006 using gravimetric analysis	
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Alkalinity	WAS 025 using Autotitration	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	BOD	WAS 001 using BOD robot and oxygen probes	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	COD	WAS 040 using closed digestion with HACH and Palintest colorimetric analysis	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Hydride Metals: Arsenic Selenium	WAS 051 using ICPMS	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Total P	WAS 049 using ICP	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Mercury	STL Method WAS013 using Cold vapour fluorescence	TA



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WASTE WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	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)	
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Sulphate	WAS036 using Konelab discrete analyser	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Nitrogen kjeldahl	WAS022 (calc) Continuous flow	TA
Treated sewage effluent, untreated sewage and trade effluent to sewer and controlled waters	Nitrogen total	WAS022 Continuous flow with UV/persulphate oxidation	TA
Treated sewage effluent	Chloride, Nitrite Soluble Reactive Phosphorus	WAS036 using Konelab discrete analyser	TA
Treated sewage effluent	Cyanide: total, free and complex	WAS018 Continuous flow with UV digestion where required	TA
Treated sewage effluent	Detergents (anionic, MBAS)	WAS020 Continuous flow	TA
Treated sewage effluent	Turbidity	WAS066 Turbidimeter	TA
Treated sewage effluent	Phenols Monohydric colorimetric	WAS019 Continuous flow	TA
Treated sewage effluent, untreated sewage	Ammonia, Total Oxidised Nitrogen (TON)	WAS036 using Konelab discrete analyser	TA
Treated sewage effluent, Trade effluent to sewer and controlled waters	Sulphate Bromide	CON 027 using Ion chromatography	TA



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<p>WASTE WATERS (cont'd)</p> <p>Treated sewage effluent, Trade effluent to sewer and controlled waters</p> <p>Trade effluent to sewer and controlled waters</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Hydride Metal: Antimony</p> <p>Uranium</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>WAS 051 using ICPMS</p> <p>WAS 051 using ICP</p>	<p>TA</p> <p>TA</p>



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SECTION 3			
SOILS	Inorganic Chemistry Soils <u>Chemical Tests and Physical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
Soils	Ammonia	Method 3a by distillation followed by titration based on SCA Method 48, Ammonia ISBN 011 751 613 9	TA
Soils	Boron: Water Soluble (10:1)	Method 6 by ICP-OES	TA
Soils	Cyanide: Free, Complex & Total	Method 14 distillation & discrete analyser based on 'MEWAM1988	TA
Soils	Thiocyanate: Water Soluble	Method 16a by spectrophotometry based on SCA Method 100, Thiocyanate ISBN 011 751 934 0	TA
Soils	<u>Metals:</u> Arsenic Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Vanadium Zinc	Method 30 by aqua regia extraction (microwave digestion) and ICP-OES, based on SCA Method 93, 1986 ISBN 011 751 908 1 Draft CEN/TC 308/WG1/TGI	TA
Soils	Sulphide: Acid Soluble	Method 47, distillation followed by discrete analyser based on 'MEWAM', Method 73, 1983	TA



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SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils	<u>Metals:</u> Arsenic Mercury	Method 30C by aqua regia extraction (microwave digestion) and hydride generated ICP-OES based on SCA Methods 92, 1985 and 99, 1987 ISBN 011 751 907 3, 1985, and ISBN 011 751 933 2, 1987	TA
Soils	Loss on Ignition	Method 337 by Gravimetry based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Soils	Sulphur: Elemental	Method 51 by microwave extraction and HPLC	TA
Soils	Sulphate: Water Soluble Chloride: Water Soluble	Method 335 by ion chromatography based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Soils	Available Fluoride	Method WAS069 by Ion Selective Electrode	TA
Soils and waters	Receipt and registration of soil and water samples	In-house procedure	TA



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SECTION 3			
SOILS	Organic Chemistry Soils <u>Chemical Tests and Physical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
Soils	Volatile Petroleum Hydrocarbons: C5-C10 benzene toluene ethylbenzene o-xylene m/p-xylene MTBE	Method 304 by GC-MS/FID	TA
Soils	Volatile Petroleum Hydrocarbons: Total VPH >C5-C10 Banding: >C5-C6 >C6-C8 >C8-C10 Aliphatic/aromatic speciation. Banding of aromatic fraction: >C5-C7 >C7-C8 >C8-C10 Total aromatics Banding of aliphatic fraction: >C5-C6 >C6-C8 >C8-C10 Total aliphatics	Method 304 by GC-MS/FID	TA



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SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils	<u>Polynuclear Aromatic Hydrocarbons</u> (PAHs): Acenaphthene Anthanthrene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Chrysene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(e)pyrene Cyclopenta (c,d) pyrene Dibenzo(a,h)anthracene Indeno(1,2,3,c,d)pyrene Benzo(g,h,l)perylene	Method 307 by HPLC-VWD based on EPA Methods 8310 and 3540C	TA
Soils	Hydrocarbons, >C6 - C40	Method 317 by solvent extraction and GC-FIDMS based on CEN/TC 292/WG5	TA
Soils	Polychlorinated Biphenyls - Total as Arochlors	Method 309 by GC-ECD based on USEPA Method 8082	TA
Soils	Polychlorinated Biphenyls as Congeners 101, 118, 138, 52, 153, 180, 28	Method 312 based on the determination of organochlorine insecticides and polychlorinated biphenyls in sewage, sludge, mud and fish, 1978	TA



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SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils	<u>PAHs:</u> Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Chrysene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3,c,d)pyrene	Method 313 by GC-MS based on Gas Chromatography Analysis of Polycyclic Aromatic Hydrocarbons, GACHAMJA A. M. Chromatography and Analysis (1992), 9-11	TA
Soils	<u>VOCs:</u> Chloromethane Chloroethane Bromomethane Vinyl Chloride Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride (DCM) 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 Benzene Carbon Tetrachloride 1,4 -Difluorobenzene 1,2-Dichloropropane Trichloroethene (TCE) Dibromomethane Bromodichloromethane Cis/Trans-1,3-Dichloropropene	Method 315 by purge & trap GC-MS based on EPA SW846, Test methods for evaluating Solid Waste, Physical/Chemical Methods, 3 rd Edition, Update 111, Dec 1996	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils (cont'd)	<u>VOCs</u> (cont'd) Toluene 1,1,2-Trichloroethane 1,3-Dichloropropane Dibromochloromethane 1,2 Dibromoethane tetrachloroethene Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m & p xylene Bromoform Styrene 1,1,2,2 Tetrachloroethane o-xylene 1,2,3 Trichloropropane Isopropylbenzene Bromobenzene 2-Chlorotoluene n-Propylbenzene 4-Chlorotoluene 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 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3 Trichlorobenzene Naphthalene	Method 315 by purge & trap GC-MS based on EPA SW846, Test methods for evaluating Solid Waste, Physical/Chemical Methods, 3 rd Edition, Update 111, Dec 1996	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils	VOC's: Dichlorodifluoromethane Chloromethane 1,1-Dichloroethene Methylene Chloride Trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethylene 1,2-Dichloropropane Bromodichloromethane Dibromomethane Cis-1,3-Dichloropropene Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene 1,2-Dibromoethane Chlorobenzene Ethylbenzene 1,1,1,2-Tetrachloroethane m/p-xylene o-Xylene Styrene Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene Sec-butylbenzene p-Isopropyltoluene	Method 327 by headspace GC-MS based on USEPA Method 8260/624	TA



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Issue No: 055 Issue date: 07 February 2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils (cont'd)	VOC's (cont'd): 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Dibromochloromethane	Method 327 by headspace GC-MS based on USEPA Method 8260/624	TA
Soils	<u>SVOCs:</u> Acenaphthene Acenaphthylene Benzo(a)anthracene Benzo(a)pyrene Chrysene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Di-n-octylphthalate Fluoranthene Fluorene Nitrobenzene Phenanthrene Pyrene N-Nitrosodimethylamine Phenol 2-Chlorophenol N-Nitroso-di-n-propylamine 2-Nitrophenol bis-(2-chloroethoxy)methane 1,2,4-trichlorobenzene naphthalene 2-methylnaphthalene 2-Chloronaphthalene dimethyl phthalate 2,6-dinitrotoluene 2,4-dinitrotoluene dibenzofuran hexachlorobenzene di-n-butyl phthalate butyl benzyl phthalate benz(a)anthracene	Method 316 by GC based on USEPA Method 8270/625 & USEPA Method (SW8-46) 3510a	TA



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Issue No: 055 Issue date: 07 February 2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
Soils (cont'd)	<u>SVOCs</u> (cont'd) benzo(b)fluoranthene dibenz(a,h)anthracene benzo(g,h,i)perylene benzo(k)fluoranthene indeno(1,2,3-c,d)pyrene	Method 316 by GC based on USEPA Method 8270/625 & USEPA Method (SW8-46) 3510a	TA
Soils	Extractable Petroleum Hydrocarbons: Total EPH C10-C44 Banding: >C ₁₀ to C ₁₂ >C ₁₂ to C ₁₆ >C ₁₆ to C ₂₁ >C ₂₁ to C ₃₅ >C ₂₁ to C ₄₀ >C ₃₅ to C ₄₄ Aliphatic/aromatic speciation. Banding of aromatic fraction: >C ₁₀ to C ₁₂ >C ₁₂ to C ₁₆ >C ₁₆ to C ₂₁ >C ₂₁ to C ₃₅ >C ₂₁ to C ₄₀ >C ₃₅ to C ₄₄ Total Aromatics Banding of aliphatic fraction: >C ₁₀ to C ₁₂ >C ₁₂ to C ₁₆ >C ₁₆ to C ₂₁ >C ₂₁ to C ₃₅ >C ₁₆ to C ₃₅ >C ₂₁ to C ₄₀ >C ₃₅ to C ₄₄ Total Aliphatics	Method 317EPH by GC-FID	TA



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Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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SOILS (cont'd) Soils	<u>Chemical Tests and Physical Tests</u> (cont'd) Phenols: Cresols Xylenols Trimethyl phenol Naphthol Butylphenol Resorcinol Phenol Total Phenols (sum of above)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd) Method 322 by HPLC based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA



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Issue No: 055 Issue date: 07 February 2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4			
<p><u>Bulk ID</u></p> <p>ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos</p> <p>Asbestos in soils (screen and ID)</p> <p>ASBESTOS IN SOILS (fibre screening and identification)</p>	<p><u>Asbestos</u></p> <p>Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite</p> <p>Asbestos Fibre Screening and Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite</p>	<p>HSG 248:February 2005 by Documented In-House Method Method 70 using stereo-microscopy, polarised light optical microscopy and dispersion staining</p> <p>Documented In-House Method Method 70 using stereo-microscopy, polarised light optical microscopy and dispersion staining</p>	<p>TA</p> <p>TA</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4			
SOIL	Inorganic Chemistry Soils <u>Chemical Tests and Physical Tests</u>		
Sediment & Sludges	Ammonia	Method 3a by distillation followed by titration based on SCA Method 48, Ammonia ISBN 011 751 613 9	TA
Sediment & Sludges	Boron: Water Soluble (10:1)	Method 6 by ICP-OES	TA
Sediment & Sludges	Cyanide: Free, Complex and Total	Method 14, distillation followed by discrete analyser based on 'MEWAM', 1988 Method ISBN 011 752 219 8	TA
Sediment & Sludges	Thiocyanate: Water Soluble	Method 16a by spectrophotometry based on SCA Method 100, Thiocyanate ISBN 011 751 934 0	TA
Soils only	<u>Metals:</u> Arsenic Mercury Selenium	Method 30c by aqua regia extraction (microwave digestion) and hydride generated ICP-OES	TA



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Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>		
Soils only	<u>Elements:</u> Aluminium Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Silver Tin Vanadium Zinc	Method 30 by aqua regia digestion (microwave) and ICP-OES	TA
Sediment & Sludges	Organic Matter	Method 36 by titration based on BS 1377:Part 3 ISBN 058 018 370 X	TA
Sediment & Sludges	pH	Method 39 by electrometric measurement by EC robot/manual probe based on BS 1377:Part 3:1990, Method 9	TA
Sediment & Sludges	Phenols: Total Steam Distillable	Method 40a by Distillation followed by colorimetry based on 'MEWAM', 1981 Method and EPA Method 9065A	TA
Sediment & Sludges	Sulphide: Acid Soluble	Method 47, distillation followed by discreet analyser based on 'MEWAM', Method 73, 1983	TA



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	Loss on Ignition	Method 337 by Gravimetry based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Sludges	Available Fluoride	Method WAS069 by Ion Selective Electrode	TA
Sediment & Sludges	Sulphur: Elemental	Method 51 by microwave extraction and HPLC	TA
Sediment & Sludges	pH	Method 39 by electrometric measurement by EC robot/manual probe based on BS 1377:Part 3:1990, Method 9	TA
Sediment & Sludges	Phenols: Total Steam Distillable	Method 40a by Distillation followed by colorimetry based on 'MEWAM', 1981 Method and EPA Method 9065A	TA
Sediment & Sludges	Sulphate: Water Soluble Chloride: Water Soluble	Method 335 by ion chromatography based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
SOIL	<u>Chemical Tests and Physical Tests</u>	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	
Sediment & Sludges	pH	CON-11	TA



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Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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SOIL (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	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 (cont'd)	
Sediment & Sludges	Moisture Total Solids Loss on Ignition	CON-10	TA
Sediment & Sludges	Metals: Aluminium Arsenic Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Sulphur (total as SO4) Zinc	CON-68	TA
Sediment & Sludges	Mercury	CON-19	TA
Sediment & Sludges	Fluoride	CON-15	TA
Sediment & Sludges	Nitrogen: Total	CON-18	TA
Sediment & Sludges	Phosphorus: Total	CON-18	TA
Sludges	Alkalinity: to pH 4.5 and 8.3	CON-13	TA



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Issue No: 055 **Issue date:** 07 February 2012

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SOILS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	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 (cont'd)	
Sludges	Metals: Antimony Arsenic Selenium	CON-21	TA
LAND (a component part of which is SOIL)	pH	CON-11	TA
	Total solids Loss on ignition	CON-10	TA
LAND (a component part of which is SOIL)	Moisture, air dry	CON-10	TA
LAND (a component part of which is SOIL)	Metals: Aluminium Arsenic Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Sulphur (total as SO ₄) Zinc	CON-68	TA



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Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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LAND (a component part of which is SOIL) (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>		
LAND (a component part of which is SOIL)	Mercury	CON-19	TA
LAND (a component part of which is SOIL)	Fluoride	CON-15	TA
LAND (a component part of which is SOIL)	Nitrogen: Total	CON-18	TA
LAND (a component part of which is SOIL)	Phosphorus: Total	CON-18	TA
LAND (a component part of which is SOIL)	Metals: Arsenic Selenium Antimony	CON-21	TA



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Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4			
Inorganic Chemistry Waters			
<u>Chemical Tests and Physical Tests</u>			
WASTE WATERS			
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Anionic detergents (MBAS)	WAS-020	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Nonionic detergents	WAS-032	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Raw (or crude untreated sewage)	Ammoniacal nitrogen	WAS-036	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Chloride	WAS-036	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Cyanide: Total	WAS-018	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Cyanide: Free	WAS-018	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Cyanide: Total excluding iron cyanides	WAS-018	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Cyanide complex (by calculation)	WAS-018	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WASTE WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>		
Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer)	Total nitrogen:	WAS-022	TA
Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer)	Kjeldahl (by calculation)	WAS-022 (by calculation)	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Raw (or crude untreated sewage)	Nitrate (Oxidised Nitrogen - Nitrite)	WAS-036 (by calculation)	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Nitrite	WAS-036	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Orthophosphate	WAS-036	TA
Groundwater Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Phenol, monohydric	WAS-019	TA



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WASTE WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>		
Groundwater Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Thiocyanate	WAS-034	TA
Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer)	Sulphide	WAS-033	TA
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Raw (or crude untreated sewage)	Oxidised Nitrogen	WAS-036	TA
Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Chromium VI	WAS-031	TA
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Sulphate	CON-27 by ion chromatography	TA



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests (cont'd)</u></p> <p>Bromide</p>	<p>CON-27 by ion chromatography</p>	<p>TA</p>
<p>Groundwater Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)</p>	<p>Ammoniacal Nitrogen</p>	<p>WAS-055</p>	<p>TA</p>
<p>Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from soil)</p>	<p>Biochemical Oxygen Demand</p>	<p>WAS-001</p>	<p>TA</p>
<p>Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p>Fluoride</p>	<p>WAS-029</p>	<p>TA</p>
<p>Groundwater Treated sewage effluent - domestic or industrial Leachate (from landfill)</p>	<p>Electrical conductivity</p>	<p>WAS-039 by manual and automated techniques</p>	<p>TA</p>



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WASTE WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>		
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	pH	WAS-039 by manual and automated techniques	TA
Surface water/Fresh water Raw (or crude untreated sewage) Trade effluent (to sewer) Treated sewage effluent - domestic or industrial	Sulphate	WAS-036	TA
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from soil)	Solids: Suspended : Non-volatile (Ash)	WAS-006 WAS-007	TA
Treated sewage effluent - domestic or industrial	Oils (NVM)	WAS-026	TA
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Total organic carbon	WAS 005	TA



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Issue No: 055 Issue date: 07 February 2012

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WASTE WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>		
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Alkalinity	WAS-025	TA
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Chemical Oxygen Demand	WAS-040	TA
Groundwater Treated sewage effluent - domestic or industrial	Oxygen; Dissolved	WAS-052	TA
Treated sewage effluent - domestic or industrial Trade effluent to sewer and Trade effluent to controlled waters	Free Formaldehyde	WAS 030 using spectrophotometer	TA
Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)	Metals: Aluminium Barium Beryllium Boron Cadmium Calcium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium	WAS-049	TA



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Issue No: 055 Issue date: 07 February 2012

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<p>WASTE WATERS</p> <p>Groundwater Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Metals: (cont'd)</p> <p>Manganese Molybdenum Nickel Phosphorous Potassium Silver Sodium Strontium Sulphur Thallium Tin Titanium Vanadium Zinc Calcium Hardness Magnesium Hardness Total Hardness</p>		
<p>Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)</p>	<p>Mercury</p>	<p>WAS-013</p>	<p>TA</p>
<p>Ground water Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from soil) Leachate (from landfill)</p>	<p>Antimony Arsenic Selenium Uranium</p>	<p>WAS-051</p>	<p>TA</p>
<p>Groundwaters Treated sewage effluent - domestic or industrial Trade effluent (to sewer)</p>	<p>Ammonia</p>	<p>WAS067</p>	<p>TA</p>



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WASTE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer)	Colour	WAS065	TA
Treated sewage effluent - domestic or industrial and leachates (from landfill)	Colour	WAS027	TA
Ground water Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer)	Turbidity	WAS066	TA
Leachate (from landfill sites) Groundwater, saline waters Treated sewage effluent - domestic or industrial	Elements: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Palladium Platinum Potassium Selenium Silicon Sodium	WAS-060	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WASTE WATERS Leachate (from landfill sites) Groundwater, saline waters Treated sewage effluent - domestic or industrial	<u>Chemical Tests and Physical Tests</u> (cont'd) Elements: (cont'd) Strontium Thallium Tin Titanium Uranium Vanadium Zinc Zirconium		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4			
SOIL	<u>Organic Chemistry Soils</u>		
	<u>Chemical Tests and Physical Tests</u>		
Sediment & Sludges	Solvent Extractable Matter: (with boiling point > 190 °C) Cyclohexane Toluene	Method No 43 by Soxhlet extraction and gravimetry	TA
Soils only	Volatile Petroleum Hydrocarbons: C5-C10 (including banding; aromatic/aliphatic fractionation and subsequent banding) benzene toluene ethylbenzene o-xylene m/p-xylene MTBE	Method 304 by GC-MS/FID	TA
Sediment & Sludges	<u>PAHs:</u> Acenaphthylene Acenaphthene Anthanthrene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Chrysene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(e)pyrene Cyclopenta (c,d) pyrene Dibenzo(a,h)anthracene Indeno(1,2,3,c,d)pyrene Benzo(g,h,l)perylene	Method 307 by HPLC-VWD based on EPA Methods 8310 and 3540C	TA



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Issue No: 055 Issue date: 07 February 2012

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
SOIL	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	Polychlorinated Biphenyls - Total as Arochlors	Method 309 by GC-ECD based on USEPA Method 8082	TA
Sediment & Sludges	Polychlorinated Biphenyls as Congeners 101, 118, 138, 52, 153, 180, 28	Method 312 based on the determination of organochlorine insecticides and PCBs in sewage, sludge, mud and fish, 1978	TA
Sediment & Sludges	1) <u>VOCs</u> : 1,4 -Difluorobenzene Benzene Carbon Tetrachloride 1,2-Dichloropropane Trichloroethene (TCE) Dibromomethane Bromodichloromethane Cis/Trans-1,3-Dichloropropene Toluene 1,1,2-Trichloroethane 1,3-Dichloropropane Dibromochloromethane 1,2 Dibromoethane Tetrachloroethene Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m & p xylene Bromoform Styrene 1,1,2,2 Tetrachloroethane o-xylene 1,2,3 Trichloropropane Isopropylbenzene Bromobenzene 2-Chlorotoluene n-Propylbenzene 4-Chlorotoluene 1,3,5-Trimethylbenzene Tert-butylbenzene Sec-butylbenzene p-Isopropyltoluene 1,2,4-Trimethylbenzene 1,3 Dichlorobenzene	Method 315	TA



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SOIL	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	1) <u>VOCs</u> : (cont'd) 1,4 Dichlorobenzene 1,2 Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3 Trichlorobenzene	Method 315 (cont'd)	TA
Sediment & Sludges	2) <u>VOCs</u> : Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane 1,1-Dichloroethene Methylene Chloride (DCM) Trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethylene 1,2-Dichloropropane Bromodichloromethane Dibromomethane Cis-1,3-Dichloropropene Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene	Method 327 by headspace GC-MS based on USEPA Method 8260/624	TA



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SOIL	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	2) <u>VOCs</u> : (cont'd) 1,1,1,2- Tetrachloroethane m/p xylene o-Xylene Styrene Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 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 1,2,3 Trichlorobenzene	Method 327 (cont'd)	TA
Sediment & Sludges	<u>SVOCs</u> : Anthracene Acenaphthene Acenaphthylene Benzo(a)anthracene Benzo(a)pyrene Bis (2-ethylhexyl)phthalate Butylbenzylphthalate 4-Bromophenyl-phenylether Chrysene 2-Chloronaphthalene 4-Chlorophenyl-phenylether Dibenzofuran 1,2-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dichlorophenol	Method 316 by GC-MS based on USEPA Method 8270/625 and USEPA method (SW8-46) 3510a	TA



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SOIL Sediment & Sludges	<u>Chemical Tests and Physical Tests</u> (cont'd) <u>SVOCs:</u> (cont'd) Diethylphthalate Di-n-butylphthalate Di-n-octylphthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Isophorone 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol (Co-eluting compounds) Nitrobenzene 4-Nitrophenol Phenanthrene Pyrene 2,6-Dichlorophenol 2,4,5-Trichlorophenol 1-chloronaphthalene 4-aminobiphenyl 7,12-dimethylbenz(a) anthracene Acetophenone Aniline Benzidine Benzoic acid Benzyl alcohol Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroisopropyl)ether Bis(-2-chloroethyl)ether Carbazole 2-Chlorophenol Dibenz(a,h)anthracene 1,3-Dichlorobenzene 2,4-Dinitrophenol	Method 316 (cont'd)	TA



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SOIL	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	<u>SVOCs:</u> (cont'd) Indeno (1,2,3-cd)pyrene Naphthalene N-Nitroso-di-n-propylamine diphenylamine & diphenylnitrosamine (co-eluting compounds) 2-Nitrophenol Phenol 1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol 1,2,4,5-tetrachlorobenzene 1-naphthylamine 2,3,4,6-tetrachlorophenol Hexachlorocyclopentadiene 2,4-dimethylphenol 2-naphthylamine 2-nitroaniline 2-picoline 3,3-dichlorobenzidene 3-methylcholanthrene 3-nitroaniline 4-chloroaniline 4-nitroaniline n-nitrosodibutylamine n-nitrosopiperidine Pentachlorobenzene Phenacetin	Method 316 (cont'd)	TA
Sediment & Sludges	Hydrocarbons, >C6 - C40 (to include banding, aromatic/aliphatic fractionation and subsequent banding)	Method 317 by solvent extraction and GC-FID MS based on CEN/TC 292/WG5	TA
Soils only	Extractable Petroleum Hydrocarbons: C10-C44 (including banding; aromatic/aliphatic fractionation and subsequent banding)	Method 317EPH by GC-FID	TA



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SOIL	<u>Chemical Tests and Physical Tests</u> (cont'd)		
Sediment & Sludges	Phenols: Cresols Xylenols Trimethyl phenol Naphthol Butylphenol Resorcinol Phenol Total Phenols (sum of above)	Method 322 by HPLC based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
SLUDGE	Volatile Fatty Acids	CON-17	TA
Soils	SVOC: 2-Picoline (2-Methylpyridine) bis-(2-chloroethyl)ether 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol bis-(2-chloroisopropyl)ether 3&4-Methylphenol Acetophenone o-Toluidine Hexachloroethane N-Nitrosopiperidine Isophorone 2,4-Dimethylphenol 2,4-dichlorophenol 2,6-dichlorophenol hexachlorobutadiene N-nitroso-di-n-butylamine 1,2,4,5-tetrachlorobenzene 2,4,6-trichlorophenol 2,4,5-trichlorophenol 2-nitroaniline Acenaphthylene pentachlorobenzene 2,3,4,6-tetrachlorophenol diethyl phthalate 4-chlorophenyl phenyl ether Fluorine N-nitroso-diphenylamine & diphenylamine	Method 316	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS Soils	<u>Chemical Tests and Physical Tests</u> (cont'd) SVOC: (cont'd) Azobenzene (1,2-diphenylhydrazine) 4-bromophenyl phenyl ether anthracene Carbazole p-(dimethylamino)azobenzene bis-(2-ethylhexyl)phthalate 3-methylcholanthrene	Method 316 (cont'd)	TA



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SECTION 4			
WASTE WATERS Groundwater Surface water/Fresh water Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Treated domestic and industrial wastewaters Leachate (from soil) Groundwater	<u>Organic Chemistry Waters</u> <u>Chemical Tests and Physical Tests</u>	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	TA
	Pentachlorophenol		
	Substituted Urea Herbicides: Chlortoluron Diuron Isoproturon Linuron Methabenzthiazuron Monolinuron Monuron	GEO-37 by LC	TA



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill)</p> <p>Groundwater, Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from andfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u></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 Benazolin Bentazone Clopyralid Trichlopyr Fenoprop Fluoroxypyr</p> <p>Organotin Compounds: Di-n-butyltin Tri-n-butyltin Triphenyltin</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 24</p>	<p>TA</p> <p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</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 4-chlor-3-methylphenol 2,4,5-trichlorophenol 4-nitrophenol 2,3,4,6-tetrachlorophenol 2,4-dinitro-2methylphenol (DNOC) pentachlorophenol dinoseb</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>GEO18 by GC-MS</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Pesticides: 1,3,5 trichlorobenzene 1,2,4 trichlorobenzene Hexachlorobutadiene 1,2,3 trichlorobenzene dichlorvos dichlobenil EPTC mevinphos heptenophos tecnazene propachlor 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 Etrimphos Triallate pirimicarb</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-47 by SPE and GC-MS-MS</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Pesticides: (cont'd)</p> <p>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</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-47 by SPE and GC-MS-MS</p>	<p>TA</p>



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WASTE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	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	
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Pesticides: (cont'd) PCB101 trans-chlordane alpha endosulphan flutriafol pp'-DDE flusilazole op'-TDE dieldrin endrin PCB 118 Cyproconazole Ethion pp'-TDE op'-DDT beta endosulphan triazophos PCB 153 Carbophenothion propiconazole pp'-DDT PCB 138 iprodisone terbuconazole diflufenican PCB180 phosalone coumaphos azinphos methyl azinphos ethyl cis-permethrin trans-permethrin cyfluthrin	GEO-47 by SPE and GC-MS-MS	TA



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WASTE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	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	
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	Pesticides: (cont'd) cypermethrin pentachlorobenzene Trietazine	GEO-47 by SPE and GC-MS-MS	TA
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Leachate (from landfill)	Mecoprop	GEO 49 using GCMS	TA
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	SVOC: Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroisopropyl)ether Bis(2-chloroethyl)ether Bis(2-ethylhexyl)phthalate Butylbenzylphthalate 4-Bromophenyl-phenylether Carbazole	GEO 40 using GC-MSD	TA



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOC: (cont'd)</p> <p>Chrysene 2-Chlorophenol 2-Chloronaphthalene 2-methylphenol 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</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 40 using GC-MSD</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOC: (cont'd)</p> <p>4-Nitrophenol Pentachlorophenol Phenanthrene Phenol Pyrene 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Aldrin Alpha-Endosulphan 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</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 40 using GC-MSD</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOC: (cont'd)</p> <p>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 op-TDE Parathion-Ethyl Parathion-Methyl PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 28 PCB 52 Pendimethalin</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 40 using GC-MSD</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>SVOC: (cont'd)</p> <p>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>	<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 40 using GC-MSD</p>	<p>TA</p>



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

Severn Trent Laboratories - Coventry
Issue No: 055 Issue date: 07 February 2012

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
<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>VOC: Dichlorodifluoromethane Chloromethane Chloroethane Bromomethane Vinyl Chloride Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE 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 Tetrachloroethene Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m&p-Xylene Bromoform Styrene 1,1,2,2-Tetrachloroethane o-Xylene 1,2,3-Trichloropropane Isopropylbenzene</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 32 using purge and trap GC-MSD</p>	<p>TA</p>



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<p>WASTE WATERS</p> <p>Treated sewage effluent - domestic or industrial leachate (from soils) Clean waters</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</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>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-45 using GC-FID and GC-MS-FID</p>	<p>TA</p>
<p>Treated sewage effluent - domestic or industrial leachate (from soils) Clean waters</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>TA</p>



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WASTE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	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	
Treated sewage effluent - domestic or industrial leachate (from landfill sites)	VOCs (Boiling point range: -30° - 220 °C)	GEO 32, Qualitative identification of non target compounds using GC-MSD (TIC)	TA
	SVOCs (Boiling point range: 100 ° - 500 °C)	GEO 40, Qualitative identification of non target compounds using GC-MSD (TIC)	
Ground water Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from soil) Leachate (from landfill)	Alkyl (nonyl) phenols: Tert-octylphenol	GEO 51 using GC-MS	TA
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	PAHs: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)Anthracene Chrysene Benzo(b)Fluoranthene Benzo(a)Pyrene Dibenz(ah)anthracene Indeno(123-cd)Pyrene	GEO 19	TA



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WASTE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	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	
Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)	PAHs: (cont'd) Benzo(ghi)Perylene Benzo(k)Fluoranthene	GEO 19	TA
Ground water Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from soil) Leachate (from landfill)	Volatile fatty acids	CON-17	TA
Drinking, potable, bottled Treated sewage effluent - domestic or industrial Leachate (from soil)	Total Petroleum Hydrocarbons (C6-C40)	GEO-35	TA



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<p>WASTE WATERS</p> <p>Groundwater Surface water/Fresh water Raw (or crude untreated sewage) Treated sewage effluent - domestic or industrial Trade effluent (to sewer) Leachate (from landfill) Leachate (from soil)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</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 m&p Xylene</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 56 using Headspace GC/MS</p>	<p>TA</p>



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SECTION 4			
WATERS	<u>Microbiological Tests</u>		
Raw and Potable Waters		Documented In-House Methods based on procedures in the Standing Committee of Analysts Publication "The Microbiology of Water 2002" unless stated otherwise	
Raw and Potable Waters	<i>Salmonella</i> spp, detection and confirmation	W2	TA
Raw and Potable Waters	<i>Pseudomonas</i> spp, presumptive and confirmed	W9 by membrane filtration using CFC Agar	TA
Raw and Potable Waters	<i>Pseudomonas aeruginosa</i> , confirmed	W11 by membrane filtration using CN Agar	TA
Recreational Waters	Enumeration of Coliforms and <i>Escherichia coli</i> - presumptive	W26 by membrane filtration using MLSB	TA
Soils, sludges and sediments	<i>E coli</i> (per g dry weight)	Documented In-House Method W25 based on "The Microbiology of Sewage Sludge, 2003", Parts 1-4, using MPN technique (Colilert-18)	TA
Soils, sludges and sediments	<i>E coli</i> (per g dry weight)	Documented In-House Method W24 based on "The Microbiology of Sewage Sludge, 2003", Parts 1-4, using membrane filtration	TA
Soils, sludges and sediments	<i>Salmonella</i> spp (per g dry weight)	W2 using membrane filtration	TA



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WATERS (cont'd) Waters from domestic supply, process waters, cooling towers and potable water	<u>Microbiological Tests</u> (cont'd) Identification and Enumeration: <i>Legionella</i> spp <i>Legionella pneumophila</i> serogroups 1 and 2-14	W5 based on BS 6068-4.12:1998 (ISO 11731:1998)	TA
END			