


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Scientific Analysis Laboratories Ltd</h3> <p>Issue No: 019 Issue date: 23 June 2010</p>	
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<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>LEACHATES WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic</p>	<p><u>Chemical Tests</u></p>	<p>Documented In-House Methods based on 'Methods for Examination of Water and Associated Materials 'MEWAM' Department of the Environment Standing Committee of Analysts identified and the Methods of the American Public Health Association - American Water Works Association - Water Pollution Control Federation (APHA-AWWA-WPCF) identified by method number</p>
	<p>Ammonia</p>	<p>Section 13, Laboratory Procedures Method based on MEWAM ISBN 0117516139, HMSO 1981 by spectrophotometry</p>
	<p>Chemical Oxygen Demand</p>	<p>Section 19, Laboratory Procedures Method based on MEWAM ISBN 0117519154, HMSO 1986 by spectrophotometry</p>
	<p>Total Suspended Solids</p>	<p>Section 20, Laboratory Procedures Method based on MEWAM ISBN 0117511957X, HMSO 1980 by gravimetry</p>
<p>LEACHATES SLUDGES SOILS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic waste</p>	<p>Cyanide (total and free)</p>	<p>Section 9, Laboratory Procedures Manual based on MEWAM ISBN 0117522198, HMSO 1988 and APHA-AWWA-WPCF Part 4500 by distillation and potentiometry</p>



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LEACHATES SLUDGES SOILS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic waste (cont'd)	<u>Chemical Tests (cont'd)</u> Phenols (monohydric)	Section 8, Laboratory Procedures Manual based on MEWAM ISBN 0117516171, HMSO 1981 by spectrometry
WATERS, raw WASTE WATERS, treated and untreated, industrial and domestic SOILS and SEDIMENTS	Total and speciated Petroleum Hydrocarbons (TPH)	Standard Operating Procedure 100 based on USEPA Method 8015B, 1996
LEACHATES WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic IMPINGERS CHARCOAL TUBES	Arsenic Mercury Selenium	Section 17 Laboratories Procedures Manual by hydride generation and cold vapour ICP-OES
WATERS, clean and ground	Bromide Chloride Fluoride Nitrate Nitrite Sulphate	Section 18 Laboratories Procedures Manual based on MEWAM ISBN 0117514284 and Standard Methods APHA 1989 by Ion Chromatography
WATERS Clean water, ground water Prepared Leachate Landfill leachate	Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Antimony Selenium Tin Vanadium Zinc	Section 18 Laboratories Procedures Manual using ICP-MS



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LEACHATES, SOILS, SLUDGES and SEDIMENTS, WATERS, Raw and Clean, WASTEWATERS, Treated and Untreated, Industrial and Domestic, FILTERS, STACK GAS ABSORPTION SOLUTIONS	<u>Chemical Tests (cont'd)</u> Aluminium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Nickel Selenium Tin Vanadium Zinc	Section 16 Laboratories Procedures Manual based on MEWAM ISBN 0117516155, HMSO 1981 and APHA-AWWA-WPCF 1992, 18 th Edition by ICP-OES
SOILS, SLUDGES and SEDIMENTS	Boron (water soluble) Sulphate (water soluble) Semi-Volatile Organic Compounds (SVOC): 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-methyl phenol 2-Methylnaphthalene 2-Nitroaniline 2-Nitrophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,6-Dinitrotoluene 3-Nitroaniline 3/4-Methylphenol 4-Bromophenyl phenylether 4-Chloro-3-methylphenol	Section 16 Laboratories Procedures Manual. Documented in-house method using ICP-OES Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS



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SOILS, SLUDGES and SEDIMENTS (cont'd)	<u>Chemical Tests (cont'd)</u> Semi-Volatile Organic Compounds (SVOC): (cont'd) 4-Chloroaniline 4-Chlorophenyl phenylether 4-Nitroaniline 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(ghi)Perylene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl)phthalate Butyl benzylphthalate Carbazole Chrysene Di-n-butylphthalate Di-n-octylphthalate Dibenzo(ah)Anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(123-cd)Pyrene Isophorone Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol Pyrene Phenols 2-methyl phenol 2,3-dimethylphenol	Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS



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SOILS, SLUDGES and SEDIMENTS (cont'd)	<u>Chemical Tests</u> (cont'd) Semi-Volatile Organic Compounds (SVOC): (cont'd) 2,5-dimethylphenol 2,6-dimethylphenol 3/4-methylphenol Phenol Polynuclear Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(ghi)Perylene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Chrysene Dibenzo(ah)Anthracene Fluoranthene Fluorene Indeno(123-cd)Pyrene Naphthalene Phenanthrene Pyrene Total PAH (SUM of 16 above)	Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS
GROUND WATER, SURFACE WATER and EFFLUENT	Semi-Volatile Organic Compounds (SVOC): 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-methyl phenol 2-Methylnaphthalene 2-Nitroaniline 2-Nitrophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS



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GROUND WATER, SURFACE WATER and EFFLUENT (cont'd)	<u>Chemical Tests</u> (cont'd) Semi-Volatile Organic Compounds (SVOC): (cont'd) 2,6-Dinitrotoluene 3-Nitroaniline 3/4-Methylphenol 4-Bromophenyl phenylether 4-Chloro-3-methylphenol 4-Chloroaniline 4-Chlorophenyl phenylether 4-Nitroaniline 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(ghi)Perylene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl)phthalate Butyl benzylphthalate Carbazole Chrysene Di-n-butylphthalate Di-n-octylphthalate Dibenzo(ah)Anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(123-cd)Pyrene Isophorone Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene	Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS



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GROUND WATER, SURFACE WATER and EFFLUENT (cont'd)	<u>Chemical Tests</u> (cont'd) Semi-Volatile Organic Compounds (SVOC): (cont'd) Phenol Pyrene Phenols: 2-methyl phenol 2,3-dimethylphenol 2,5-dimethylphenol 2,6-dimethylphenol 3/4-methylphenol Phenol Polynuclear Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(ghi)Perylene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Chrysene Dibenzo(ah)Anthracene Fluoranthene Fluorene Indeno(123-cd)Pyrene Naphthalene Phenanthrene Pyrene Total PAH (SUM of 16 above)	Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS Section 12 Laboratories Procedures Manual. Documented in-house method using GC-MS
SOILS and WATERS (Groundwaters and Leachates)	Volatile Organic Compounds EPA 624 Suite: Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene Methylene Chloride 1,1-Dichloroethane Trans-1,2-Dichloroethylene	Documented In-House Method SOP12I using Headspace GC-MS



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SOILS and WATERS (Groundwaters and Leachates) (cont'd)	<u>Chemical Tests</u> (cont'd) Volatile Organic Compounds EPA 624 Suite: (cont'd) MTBE 2,2-Dichloropropane cis-1,2-Dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride 1,1-Dichloropropene Benzene 1,2-Dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,3-Dichloropropene Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethylene 1,3-Dichloropropane Chlorodibromomethane 1,2-Dibromomethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Stryene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert -Butylbenzene 1,2,4 -Trimethylbenzene sec -Butylbenzene p -Isopropyltoluene 1,3 -Dichlorobenzene 1,4-Dichlorobenzene	Documented In-House Method SOP12I using Headspace GC-MS



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<p>LEACHATES SOILS, SLUDGES and SEDIMENTS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic</p>	<p><u>Physical Tests</u></p> <p>pH</p>	<p>Section 11, Laboratory Procedures Manual based on BS 1377:Part 3:1990, MEWAM, ISBN 0117514284, HMSO 1978 and APHA-AWWA-WPCF 1992, 18th Edition</p>
<p>SOILS</p>	<p><u>Chemical Tests</u></p> <p>pH</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil</p> <p>Section 11, Laboratory Procedures Manual based on BS 1377:Part 3:1990, MEWAM, ISBN 0117514284, HMSO 1978 and APHA-AWWA-WPCF 1992, 18th Edition</p>



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SOILS (cont'd)	<u>Physical Tests</u> (cont'd) Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Zinc	Section 16 Laboratories Procedures Manual based on MEWAM ISBN 0117516155, HMSO 1981 and APHA-AWWA-WPCF 1992, 18 th Edition by ICP-OES
	END	