Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

The Environmental Laboratory Ltd

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	<u>Health and Hygiene</u> Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248: February 2005 by Documented In-House Method using stereo-microscopy, polarised light optical microscopy and dispersion staining
ASBESTOS IN SOILS (fibre screening and identification)	Asbestos Fibre Screening and Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method using stereo-microscopy, polarised light optical microscopy and dispersion staining
ASBESTOS IN SOILS	Quantification of Asbestos	Method 260 Gravimetrically and by Dispersion and fibre counting using Phase Contract Optical Microscopy

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests	Documented In-House Methods:
	Conductivity	Method 114 using 5:1 water: soil extraction and Conductivity Meter
	Organic matter	Method 111 using titrimetry
	Metals: Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Lead Magnesium Manganese Mercury Nickel Potassium Selenium Vanadium Zinc	Method 118 using ICP-MS
	Acid-soluble Sulphate	Method 115 using Ion Chromatography
	Arsenic Aluminium Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Sodium	Method 300 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests (Cont'd)	Documented In-House Methods:
	Strontium Thallium Vanadium Zinc	Method 300 using ICP-MS
SOILS	Chemical Tests	Documented in House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard (soils)
	pH	Method 113 using pH meter
	Metals: Arsenic Cadmium Chromium Cobalt Copper Lead Mercury Nickel Selenium Vanadium Zinc	Method 118 using ICP-MS
	Arsenic Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Mercury Molybdenum Nickel Potassium Selenium Sodium Vanadium Zinc	Method 300 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests	Documented in House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard (soils)
	Sulphur	Method 122 using HPLC
	Cyanide (Total)	Method 204 using Colorimetry
	Sulphate (Water Soluble) Chloride (Water Soluble) Nitrate (Water Soluble)	Method 172 using Ion Chromatography
	Polynuclear Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a,h)anthracene Dibenzo(a,h)anthracene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Benzo(b)fluoranthene Chrysene Fluoranthene Fluorene Phenanthrene Indeno(1,2,3-cd)pyrene Naphthalene Pyrene Total of 16 PAH	Method 133 using GC/FID
	Phenol 2,3-Dimethylphenol 2,3,5-Trimethylphenol	Method 121 using HPLC Colorimetry
	Total Petroleum Hydrocarbons (> C8 – < C40)	Method 117 using GC-FID
	Organochlorine Pesticides: Aldrin Dieldrin Endosulphan sulphate Alpha-BHC Beta-BHC Gamma-BHC (Lindane) p,p-DDD p,p-DDE p,p-DDT	Method 173 using GC-MSD

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented in House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard (soils) (cont'd)
	Loss on Ignition	Method 129 by weight loss
	Volatile Organic Compounds: Benzene Bromobenzene Bromodichloromethane Carbontetrachloride Chlorobenzene Chloroform Dibromomethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Ethylbenzene 1,1,2,2-Tetrachloroethane 1,1,1,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane Trichloroethene o-Xylene m-Xylene 1,1-Dichloro-1-Propene 1,3-Dichloro-1-Propene Dibromoethane Methylethylbenzene	Method 181 using Headspace GC/MS
	Polychlorinated Biphenyls as Congeners 101, 118, 138, 52, 153, 180, 28	Method 120 by GC-MS
	Banded aliphatic Hydrocarbons in ranges: >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-<C40 Total aliphatic hydrocarbons >C10 – <C40	Method 271 By GCxGC -FID

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented in House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard (soils) (cont'd)
	Banded aromatic Hydrocarbons in ranges: >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-<C40 Total aromatic hydrocarbons >C10 – <C40	Method 271 by GCxGC-FID
	Banded sum of aliphatic and aromatic Hydrocarbons in ranges: >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-<C40 Total aliphatic and aromatic (sum) Hydrocarbons >C10 – <C40	Method 271 by GCxGC-FID

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	Chemical Tests	Documented In-House Methods:
Ground water and Surface Waters	Anions Fluoride Chloride Nitrite Nitrate Sulphate Phosphate	Method 270 using Ion Chromatography
Ground, Surface and Waste Waters	Conductivity	Method 136 using Conductivity Meter
Ground, Surface and Waste Waters	Metals Aluminium Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Sodium Strontium Thallium Zinc	Method 101 using ICP-MS
	Chromium VI	Method 123 using Colorimetry
	pH	Method 113 using pH Meter
	Total Petroleum Hydrocarbons (C9 – C40)	Method 178 using GC/FID
	Dissolved Organic Carbon	Method 102 using TOC analyser

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd) Ground water, surface water and trade effluent	Chemical Tests (cont'd) Volatile Organic Compounds (VOCs): MTBE Benzene Toluene Ethylbenzene m & p-Xylene o-Xylene Cis-1,2-dichloroethene 1,1-Dichloroethane Chloroform Carbon tetrachloride 1,1,1-Trichloroethane Tetrachloroethene 1,1,1,2-Tetrachloroethane Chlorobenzene Bromobenzene Bromodichloromethane Methylethylbenzene 1,1-Dichloro-1-propene Trans-1,2-dichloroethene Bromochloromethane 1,2-Dichloroethane Dibromomethane 1,2-Dichloropropane Cis-1,3-Dichloro-1-propene Trans-1,3-Dichloro-1-propene 1,1,2-Trichloroethane Dibromochloromethane 1,3-Dichloropropane Dibromoethane Styrene Propylbenzene 2-Chlorotoluene 1,2,4-Trimethylbenzene 4-Chlorotoluene t-Butylbenzene 1,3,5-Trimethylbenzene 1-methylpropylbenzene o-Cymene 1,3-Dichlorobenzene Butylbenzene 1,2-Dibromo-3-chloropropane Hexachlorobutadiene 1,2,3-Trichlorobenzene Naphthalene 1,2,4-Trichlorobenzene	Documented In-House Methods: Method 200 using headspace GC-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
Ground water, surface water and trade effluent	Volatile Organic Compounds (VOCs): 1,4-Dichlorobenzene 1,2-Dichlorobenzene Bromoform	Method 200 using headspace GC-MS
Ground Water, Surface Water and Land Leachate Water	Aluminium Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Sodium Strontium Thallium Vanadium Zinc	Method 301 using ICP-MS
Filtered surface and groundwaters	Total Cyanide	Method 205 by Colorimetry
END		