


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>2139</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>Derwentside Environmental Testing Services Ltd</b>	
	Issue No: 066    Issue date: 22 August 2023	
	<b>Unit 2</b> Park Road Industrial Estate Consett Co Durham DH8 5PY	<b>Contact: Mr J Coffer</b> Tel: +44 (0)1207 582333 E-Mail: info@dets.co.uk Website: www.dets.co.uk

**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
<b>Address</b> Unit 2 Park Road Industrial Estate Consett Co Durham DH8 5PY	<b>Local contact</b> Mr J Coffer	Environmental Analysis Health and Hygiene  Asbestos – All Support Functions	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Client Premises	Sampling	B



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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
LEACHATES WATER, PROCESS WATER, SALINE/SEA WATER, WASTE WATER, NATURAL	<u>Analysis</u>		
	pH value	Documented In-House Method No DETCS 2008 based on BS 1377:Part 3:1990	A
	Electrical Conductivity	Documented In-House Method No DETCS 2009	A
	Alkalinity	Documented In-House Method No DETSC 2030 based on Standing Committee of Analysts Methods (HMSO) ISBN 011 751 6015	A
	Chemical Oxygen Demand	Documented In-House Method No DETSC 2032 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 9154, 1986, by colorimetry	A
	Suspended Solids	Documented In-House Method No DETSC 2034 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 957 X, 1980	A
	Total Dissolved Solids	Documented In-House Method No DETSC 2035 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 957 X, 1980	A
LEACHATES, WATER, PROCESS, WATER, SALINE/SEA, WATER, WASTE, WATER, NATURAL, TRADE EFFLUENTS	Chloride content	Documented In-House Method No DETSC 2006 based on BS 1377:Part 3:1990	A
	Biochemical Oxygen Demand	Documented In-House Method No DETSC 2031 based on Standing Committee of Analysts Method (HMSO) ISBN 011 752 2120, 1988, by meter	A



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LEACHATES WATER, PROCESS WATER, SALINE/SEA WATER, WASTE WATER, NATURAL  Clean water (non-regulatory) Surface (River) water, Sewage Influent and Sewage effluent	<u>Analysis</u> (cont'd)		
	Boron (soluble)	Documented In-House Method No DETSC 2123 by colorimetry	A
	Anions, comprising: Chloride Nitrate Nitrite Phosphate Sulphate	Documented In-House Method No DETSC 2055 by ion chromatography based on EPA 9056A (Rev 1 November 2000)	A
	Mercury (Total and Dissolved)	Documented in house Method No DETSC 2324 by AFS	A
	Low level Total and Dissolved Metals Aluminium  Phosphorous Chromium Iron Nickel Copper Zinc Cadmium Lead	Documented in house Method No DETSC 2306 by ICPMS	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	<u>Analysis</u> (cont'd) Metals: Dissolved only: Aluminium Antimony Arsenic Barium Calcium Cadmium Cobalt Chromium Copper Iron Lead Mercury Potassium Magnesium Manganese Nickel Phosphorus Selenium Sodium Vanadium Zinc	Documented in house method No DETSC 2306 by ICP-MS	A
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	Molybdenum		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Hardness by Calculation Calcium Hardness by Calculation	Documented in-House method DETSC 2303	A
	Elemental Sulphur	Documented In-House Method No DETSC 3049 by HPLC based on standing committee of Analysts Method (HMSO) ISBN 011 751 726 7	A
	Oil and Grease (Hexane extractable material) Cyclohexane Extractable Material Toluene Extractable Material	Documented In-House Method No DETSC 3002 by extraction/ gravimetry	A
	Thiocyanate	Documented In-House Method No DETSC 2130 by Skalar	A



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Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate (cont'd)	<u>Analysis</u> (cont'd)		
	Cyanide (total)	Documented In-House Method No DETSC 2130 by Skalar	A
	Cyanide (free)	Documented In-House Method No DETSC 2130 by Skalar	A
	Phenol (monohydric)	Documented In-House Method No DETSC 2130 by Skalar	A
	Low Level Cyanide (total)	Documented In-House Method No DETSC 2131 by Skalar	A
	Low Level Cyanide (free)	Documented In-House Method No DETSC 2131 by Skalar	A
	Low level Cyanide (Complex by Calculation)	Documented In-House Method No DETSC 2131 by Skalar	A
	Low Level Phenol (monohydric)	Documented In-House Method No DETSC 2131 by Skalar	A
	Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Methyl-tert-butyl-ether (MTBE) Toluene o-Xylene (m+p)-Xylenes	Documented In-House Method No DETSC 3322 by GC-FID	A
	Extractable Petroleum Hydrocarbons (EPH) (C <sub>10</sub> -C <sub>40</sub> )	Documented In-House Method No DETSC 3311 by GC-FID	
LEACHATES, TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER	Nitrite	Documented In-House Method No DETSC 2201 by KONELAB 60i	A
	TON	Documented In-House Method No DETSC 2202 by KONELAB 60i	A
	Hexavalent Chromium	Documented In-House Method No DETSC 2203 by KONELAB 60i	A
	Phosphorous (Soluble reactive)	Documented In-House Method No DETSC 2205 by KONELAB 60i	A



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LEACHATES, TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER (cont'd)	<u>Analysis</u> (cont'd)		
	High level Ammonia	Documented In-House Method No DETSC 2206 by KONELAB 60i	A
	Low Level Ammonia	Documented In-House Method No DETSC 2207 by KONELAB 60i	A
LEACHATES (from soils), TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER	Sulphide	Documented In-House Method No DETSC 2208 by KONELAB 60i	A
	Petroleum range hydrocarbons (PRO) including banding: Total PRO C <sub>5</sub> -C <sub>10</sub> PRO C <sub>5</sub> -C <sub>6</sub> PRO C <sub>6</sub> -C <sub>8</sub> PRO C <sub>8</sub> -C <sub>10</sub> Total Aliphatic C <sub>5</sub> -C <sub>10</sub> Aliphatic C <sub>5</sub> -C <sub>6</sub> Aliphatic >C <sub>6</sub> -C <sub>8</sub> Aliphatic >C <sub>8</sub> -C <sub>10</sub> Total Aromatic C <sub>5</sub> -C <sub>10</sub> Aromatic C <sub>5</sub> -C <sub>7</sub> Aromatic >C <sub>7</sub> -C <sub>8</sub> Aromatic >C <sub>8</sub> -C <sub>10</sub>	Documented in house method No DETSC 3322 using GC-FID	A
LEACHATES (from soils), TAP WATER (non-regulatory), EFFLUENT, RIVER WATER AND GROUNDWATER	Polycyclic Aromatic Hydrocarbons (PAH's) specifically: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Dibenz[a,h]anthracene Indeno(123,cd) pyrene Benzo(ghi) perylene  Total PAH (sum of EPA 16)	Documented in house method No DETSC 3304 using GC-MS	A



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LEACHATES (from soils), TAP WATER (non-regulatory), EFFLUENT, RIVER WATER AND GROUNDWATER (cont'd)	<u>Analysis (cont'd)</u> Polychlorinated Biphenyls (PCB's) specifically: PCB 28 / 31 PCB 52 PCB 101 PCB 118 + PCB 123 PCB 153 PCB 138 PCB 180 PCB 105 PCB 114 PCB 126 PCB 156 PCB 157 PCB 167 PCB 169 PCB 189 PCB 77 PCB 81	Documented in house method No DETSC 3402 using GC-MS	A
TAP WATER (non-regulatory), RIVER WATER, GROUNDWATER AND LEACHATE	Total Organic Carbon (TOC) Range - 3 - 30mg/l Range - 30 - 300mg/l	Documented In-House Method No DETSC 2033 by spectrophotometry	A
Surface Water, Groundwater, Effluent, Landfill Leachates and Leachates from Soils	Total Organic Carbon Dissolved Organic Carbon	Documented in house method DETSC 2085 by Infra-red TOC Analyser	A



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TAP WATER (non-regulatory) SURFACE (river) WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE	<u>Analysis (cont'd)</u> <u>Volatile Organic Compounds:</u> Dichlorodifluoromethane Chloromethane vinyl chloride Bromomethane Chloroethane 1,1-dichloroethylene trans-1,2-dichloroethylene 1,1-dichloroethane cis 1,2-dichloroethylene Chloroform Bromochloromethane 1,1,1-trichloroethane 1,1-dichloropropene Carbon tetrachloride 1,2-dichloroethane Benzene 1,2-dichloropropane Dibromomethane Bromodichloromethane cis-1,3-dichloropropene Toluene trans-1,3-dichloropropene 1,1,2-trichloroethane Tetrachloroethylene 1,3-dichloropropane Dibromochloromethane 1,2-dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-tetrachloroethane Bromobenzene 1,2,3-trichloropropane n-propylbenzene 2-chlorotoluene 1,3,5-trimethylbenzene 4-chlorotoluene Tert-butylbenzene	Documented in house method No DETSC 3432 by headspace GC-MS	A





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TAP WATER (non-regulatory) SURFACE (river) WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE (cont'd)	<u>Analysis (cont'd)</u>  <u>Volatile Organic Compounds:</u> (cont'd) 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		A
TAP WATER (non-regulatory) SURFACE WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE LANDFILL LEACHATE	Acid Herbicides: Mecoprop Bentazone MCPA Clopyralid Dicamba 2,3,6-trichlorobenzoic acid Dichloprop Bromoxynil Fenoprop MCPB 2,4,5-T Fluroxypyr 2,4-DB Ioxynil	Documented In-House Method No DETSC 3448 by LC-MS-MS	A
LEACHATES, RIVER WATER AND GROUNDWATER	pH	Documented In-House Method No DETSC 2008 by voltammetry	A
	Conductivity	Documented In-House Method No DETSC 2009 by voltammetry	A
	Alkalinity	Documented In-House Method No DETSC 2030 by voltammetry	A



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SOILS SEDIMENTS	<u>Chemical Analysis</u>		
	pH value	Documented In-House Method No DETSC 2008 based on BS 1377:Part 3:1990	A
	Electrical Conductivity	Documented In-House Method No DETSC 2009	A
	Organic Matter Content	Documented In-House Method No DETSC 2002 based on BS 1377:Part 3:1990	A
	Loss on Ignition	Documented In-House Method No DETSC 2003 based on BS 1377:Part 3:1990	A
	Sulphate content	Documented In-House Method No DETSC 2004 based on BS 1377:Part 3:1990	A
	Water Soluble Chloride content	Documented In-House Method No DETSC 2006 based on BS 1377:Part 3:1990	A
	Acid Soluble Chloride content	Documented In-House Method No DETSC 2007 based on BS 1377:Part 3:1990	A
	Anions, comprising: Chloride Fluoride Nitrate Nitrite Phosphate Sulphate	Method No DETSC 2055 by ion chromatography based on EPA 9056A (Rev 1 November 2000)	A
SOILS only	<u>Boron (water soluble)</u>	Documented In-House Method No DETSC 2311 by ICP-OES	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS SEDIMENTS (cont'd)	<u>Chemical Analysis</u> (cont'd)		
	Mercury	Documented In-House Method No DETSC 2325 by atomic fluorescence	A
SOILS only	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Tin Vanadium Zinc	Documented In-House Method No DETSC 2301 by hotblock digestion and ICP-OES based on Standing Committee of Analysts Method (HMSO) ISBN 011 753 2444	A
	Sulphur (total)	Documented In-House Method No DETSC 2320 by hotblock digestion and ICP-OES	A
	Elemental Sulphur	Documented In-House Method No DETSC 3049 by HPLC based on standing committee of Analysts Method (HMSO) ISBN 011 751 726 7	A
	Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Methyl-tert-butyl-ether (MTBE) Toluene o-Xylene (m+p)-Xylenes	Documented In-House Method No DETSC 3321 by GC-FID	A



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SOILS SEDIMENTS (cont'd)	<u>Chemical Analysis</u> (cont'd) Extractable Petroleum Hydrocarbons (EPH) (C <sub>10</sub> -C <sub>40</sub> ) Diesel Range (C <sub>10</sub> -C <sub>24</sub> ) Lube Oil range / Mineral Oil Range (C <sub>24</sub> -C <sub>40</sub> )	Documented In-House Method No DETSC 3311 by GC-FID	A
	Polycyclic Aromatic Hydrocarbons (PAH's) specifically: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Dibenz[a,h]anthracene Total PAH (sum of EPA 16)	Documented In-House Method No DETSC 3301 by GC based on EPA 8100 and BG Soil Analysis 1999	A
SOILS	Polychlorinated Biphenyls (total)	Documented In-House Method No DETSC 3401 by GC-MS	A
	<u>Analysis</u> Sulphate (acid soluble)	Documented In-House Method No DETSC 2321 by ICP-OES	A
	Sulphate (water soluble)	Documented In-House Method No DETSC 2076 (ICP-OES)	A
	Ammonia	Documented In-House Method No DETSC 2119 by spectrophotometry	A
	Thiocyanate	Documented In-House Method No DETSC 2130 by Skalar	A



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SOILS (cont'd)	<u>Analysis</u> (cont'd)		
	Cyanide (total) Cyanide (free) Phenol (monohydric)	Documented In-House Method No DETSC 2130 by Skalar	A
	Total Organic Carbon (TOC)	Documented In-House Method No DETSC 2084 by combustion and infra-red detection	A
	Loss on Drying at <30°C Moisture Content at 105°C	Documented In-House Method No DETSC 1004 by Gravimetry	A
	Fraction Organic Carbon by Calculation (Expressed as fraction of TOC)	Documented In-House Method No DETSC 2084	A
	Extractable Petroleum Hydrocarbons (EPH), C <sub>10</sub> -C <sub>35</sub> , specifically: Total EPH (C <sub>10</sub> -C <sub>35</sub> )	Documented In-House Method DETSC 3072 by GC-FID	A
	Total Extractable Aliphatic Hydrocarbons (C <sub>10</sub> -C <sub>35</sub> ) C <sub>10</sub> -C <sub>12</sub> (aliphatic) C <sub>12</sub> -C <sub>16</sub> (aliphatic) C <sub>16</sub> -C <sub>21</sub> (aliphatic) C <sub>21</sub> -C <sub>35</sub> (aliphatic) Total Extractable Aromatic Hydrocarbons (C <sub>10</sub> -C <sub>35</sub> ) C <sub>10</sub> -C <sub>12</sub> (aromatic) C <sub>12</sub> -C <sub>16</sub> (aromatic) C <sub>16</sub> -C <sub>21</sub> (aromatic) C <sub>21</sub> -C <sub>35</sub> (aromatic)		
	Polychlorinated Biphenyls (total), comprising: PCB 28 / 31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	Documented In-House Method No DETSC 3401 by GC-MS	A



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SOILS (cont'd)	<u>Analysis</u> (cont'd) Polyaromatic Hydrocarbons, comprising: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene Total PAH's (Sum of EPA 16)	Documented in house method No DETSC 3303 by GC-MS	A
	Gross Calorific value	Documented In-House Method No DETSC 5008 using Bomb calorimetry	A
	Net Calorific value	Documented in house calculation	A
Soils	Carbonate as Equivalent Carbon Dioxide	Documented in house method DETSC 2005 using titrimetry	A
Soils	Semi Volatile Organic Compounds: Phenol 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Bis(2-chloroisopropyl)ether Benzyl alcohol 2-Methyl phenol N-Nitrosodi-n-propylamine Hexachloroethane 4-Methyl phenol & 3-Methylphenol Nitrobenzene Isophorone	Documented in house method DETSC 3433 using GCMS	A



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SOILS (cont'd)	<u>Analysis (cont'd)</u> Semi Volatile Organic Compounds: (cont'd) 2-Nitrophenol 2,4-Dimethyl phenol Bis (2-chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene Hexachlorobutadiene 4-Chloro-3-methyl phenol 2-Methylnaphthalene 1-Methylnaphthalene 2,4,6-Trichlorophenol 2-Chloronaphthalene Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene Acenaphthene Dibenzofuran Diethylphthalate Fluorene Diphenylamine Azobenzene 4-Bromophenyl-1-phenylether Hexachlorobenzene Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene Pyrene Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	Documented in house method DETSC 3433 using GCMS	A



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SOILS (cont'd)	<u>Analysis</u> (cont'd) Volatile Organic Compounds: Vinyl Chloride 1,1 Dichloroethylene Trans-1,2-dichloroethylene 1,1-dichloroethane Cis-1,2-dichloroethylene 2,2-dichloropropane Bromochloromethane Chloroform 1,1,1-trichloroethane 1,1-dichloropropene Carbon tetrachloride 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 Dibromochloromethane 1,2-dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Bromoform Isopropylbenzene Bromobenzene 1,2,3-trichloropropane n-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 n-butylbenzene	Documented in house method DETSC 3431 using Headspace GCMS	A







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BIOMASS and SOLID RECOVERED FUELS	<u>Analysis</u> (cont'd)		
	Total Moisture	Documented In-House Method No DETSC 5004 using gravimetric techniques	A
	Analysis Moisture	Documented In-House Method No DETSC 5005 using gravimetric techniques	A
	Volatile matter	Documented In-House Method No DETSC 5003 using gravimetric techniques	A
	Gross Calorific value	Documented In-House Method No DETSC 5007 using Bomb calorimetry	A
	Net Calorific value	Documented in house calculation	A
	Ash Content	Documented In-House Method No DETSC 5002 using gravimetric techniques	A
	Mercury	Documented In-House Method No DETSC 5015 using hot block digestion and Cold Vapour Atomic Fluorescence	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BIOMASS and SOLID RECOVERED FUELS (cont'd)	<u>Analysis (cont'd)</u>		
	<u>Metals</u>		A
	Aluminium	Documented In-House Method No DETSC 5014 using hot block digestion and ICP-OES	
	Arsenic		
	Antimony		
Barium			
Beryllium			
Cadmium			
Calcium			
Cobalt			
Chromium			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Phosphorous			
Potassium			
Selenium			
Sodium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			
	Sulphur	Documented In-House Method No DETSC 5016 using hot block digestion and ICP-OES	A
	Chlorine Fluorine	Documented In-House Method No DETSC 5017 using Ion Chromatography	A
	Biomass Content	Documented In-House Method No DETSC 5012 based on BS EN ISO 21644:2021 using Gravimetry	A
	Carbon, Hydrogen, Nitrogen	Documented In-House Method No DETSC 5013 using CHN analyser	A



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BIOMASS and SOLID RECOVERED FUELS (cont'd)	<u>Analysis</u> (cont'd) Oxygen (by calculation)	Documented In-House Method No DETSC 5013 by calculation	A
RECYCLED WASTE Trommel Fines	Loss on Ignition at 440°C	Documented in house method ref DETSC 5022 – using Gravimetric Analysis in accordance with HMRC Excise Notice LFT1 27 March 2015	A
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	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021  Documented In-House Method DETSC 1101 using stereo- microscopy, polarised light optical microscopy and dispersion staining based on HSG 248.	A
ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, <i>specifically:</i> Soil Aggregate Ballast	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method DETSC 1102 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248.	A
ASBESTOS IN SOILS – The Identification and Quantification of Asbestos fibres in bulk samples of Soil, <i>specifically:</i> Soil Ballast Aggregate,	Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method DETSC 1102 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248  Documented In-House Method DETSC 1102 for quantification of asbestos using gravimetry and phase contrast microscopy	A
ASBESTOS CONTAINING MATERIALS	Water Absorption	Documented In-House Method DETSC 1103	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	<u>Analysis</u>	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	
	pH value	Documented In-House Method No DETSC 2008 by voltammetry	A
	Loss on Ignition	Documented In-House Method No DETSC 2003 based on BS 1377:Part 3:1990	A
	Organic Matter Content	Documented In-House Method No DETSC 2002 based on BS 1377:Part 3:1990	A
	Total Organic Carbon (TOC)	Documented In-House Method No DETSC 2084 by combustion and infra-red detection	A
	Fraction Organic Carbon by Calculation (Expressed as fraction of TOC)	Documented In-House Method No DETSC 2084	A
	Sulphate (acid soluble)	Documented In-House Method No DETSC 2321 by ICP-OES	A
	Sulphate (water soluble)	Documented In-House Method No DETSC 2076 (ICP-OES)	A
	Sulphate (acid soluble)	Documented In-House Method No DETSC 2004	A
	Ammonia	Documented In-House Method No DETSC 2119	A
	Thiocyanate	Documented In-House Method No DETSC 2130	A
	Cyanide (total)	Documented In-House Method No DETSC 2130 by Skalar	A
	Cyanide (free)	Documented In-House Method No DETSC 2130 by Skalar	A



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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>Analysis</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd)	
	Boron (water soluble)	Documented In-House Method No DETSC 2311 by ICP-OES	A
	Mercury	Documented In-House Method No DETSC 2325 by hotblock digestion and atomic fluorescence	A
	Sulphur (elemental)	Documented In-House Method No DETSC 3049 by HPLC based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 726 7	A
	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Selenium Vanadium Zinc	Documented In-House Method No DETSC 2301 by hotblock digestion and ICP-OES based on Standing Committee of Analysts Method (HMSO) ISBN 011 753 2444	A
	Phenol (monohydric)	Documented In-House Method No DETSC 2130	A
	Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Toluene o-Xylene (m+p)-Xylenes	Documented In-House Method No DETSC 3321	A



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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>Analysis</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd)	
	Extractable Petroleum Hydrocarbons (EPH) (C <sub>10</sub> -C <sub>40</sub> ) Diesel Range (C <sub>10</sub> -C <sub>24</sub> ) Lube Oil Range / Mineral Oil Range (C <sub>24</sub> -C <sub>40</sub> )	Documented In-House Method No DETSC 3311 by GC-FID	A
	Extractable Petroleum Hydrocarbons (EPH), C <sub>10</sub> -C <sub>35</sub> , specifically: Total EPH (C <sub>10</sub> -C <sub>35</sub> )	Documented In-House Method DETSC 3072 by GC-FID	A
	Total Extractable Aliphatic Hydrocarbons (C <sub>10</sub> -C <sub>35</sub> ) C <sub>10</sub> -C <sub>12</sub> (aliphatic) C <sub>12</sub> -C <sub>16</sub> (aliphatic) C <sub>16</sub> -C <sub>21</sub> (aliphatic) C <sub>21</sub> -C <sub>35</sub> (aliphatic)		
Extractable Petroleum Hydrocarbons (EPH), C <sub>10</sub> -C <sub>35</sub> , specifically: Total Extractable Aromatic Hydrocarbons (C <sub>10</sub> -C <sub>35</sub> ) C <sub>10</sub> -C <sub>12</sub> (aromatic) C <sub>12</sub> -C <sub>16</sub> (aromatic) C <sub>16</sub> -C <sub>21</sub> (aromatic) C <sub>21</sub> -C <sub>35</sub> (aromatic)	Documented In-House Method DETSC 3072 by GC-FID	A	



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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)	<p>Analysis (cont'd)</p> <p>Extractable Petroleum Hydrocarbons (EPH) specifically: &gt;EC10-EC12 &gt;EC12-EC16 &gt;EC16-EC21 &gt;EC21-EC35 &gt;EC35-EC40 &gt;EC10-C35 &gt;EC10-C40 &gt;EC10-C24 &gt;EC24-C40</p> <p>Total Extractable Aliphatic Hydrocarbons specifically: &gt;EC10-EC12 &gt;EC12-EC16 &gt;EC16-EC21 &gt;EC21-EC35 &gt;EC35-EC40 &gt;EC10-C35 &gt;EC10-C40</p> <p>Total Extractable Aromatic Hydrocarbons specifically: &gt;EC10-EC12 &gt;EC12-EC16 &gt;EC16-EC21 &gt;EC21-EC35 &gt;EC10-C35</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd)</p> <p>Documented In-House Method DETSC 3521 by GC/GC-FID</p>	A





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SOILS (cont'd)	<u>Analysis</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd)	
	Polychlorinated Biphenyls (total), comprising: PCB 28 / 31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	Documented In-House Method No DETSC 3401 by GC-MS	A
	Polyaromatic Hydrocarbons, comprising: Naphthalene Fluoranthene Acenaphthylene Acenaphthene Phenanthrene Pyrene Benzo(a)anthracene	Documented in house method No DETSC 3303 by GC-MS	A
	Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene		
WASTEWATERS	<u>Analysis</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	
	Chemical Oxygen Demand	Method DETSC 2032 by Colorimetry	A
END			