


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2139 Accredited to ISO/IEC 17025:2017	Normec DETS Limited	
	Issue No: 072 Issue date: 23 April 2026	
	Unit 2 Park Road Industrial Estate Consett Co Durham DH8 5PY	Contact: Mr J Coffey Tel: +44 (0)1207 582333 E-Mail: john.coffey@normecgroup.com Website: www.normecdets.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 Unit 2 Park Road Industrial Estate Consett Co Durham DH8 5PY	Local contact Mr J Coffey	Environmental Analysis Health and Hygiene Asbestos – All Support Functions	A



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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
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	<u>Chemical 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
	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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Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	<u>Analysis</u> (cont'd)		
	Boron (soluble)	Documented In-House Method No DETSC 2123 by colorimetry	A
Clean water (non-regulatory) Surface (River) water, Sewage Influent and Sewage effluent	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	Documented in house Method No DETSC 2306 by ICPMS	A
	Phosphorous Chromium Iron Nickel Copper Zinc Cadmium Lead		



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Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	<u>Analysis</u> (cont'd)	Documented in house method No DETSC 2306 by ICP-MS	A
	Metals: Dissolved only:		
	Aluminium		
	Antimony		
	Arsenic		
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	Barium	Documented in-House method DETSC 2303	A
	Calcium		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Cadmium	Documented In-House Method No DETSC 3049 by HPLC based on standing committee of Analysts Method (HMSO) ISBN 011 751 726 7	A
	Cobalt		
	Chromium		
	Copper		
	Iron		
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	Lead	Documented In-House Method No DETSC 3002 by extraction/ gravimetry	A
	Molybdenum		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Mercury	Documented In-House Method No DETSC 2130 by Skalar	A
	Potassium		
	Magnesium		
	Manganese		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Nickel	Documented In-House Method No DETSC 2130 by Skalar	A
	Phosphorus		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Selenium	Documented In-House Method No DETSC 2130 by Skalar	A
	Sodium		
Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate	Vanadium	Documented In-House Method No DETSC 2130 by Skalar	A
	Zinc		
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	Hardness by Calculation	Documented In-House Method No DETSC 2130 by Skalar	A
	Calcium Hardness by Calculation		
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	Elemental Sulphur	Documented In-House Method No DETSC 2130 by Skalar	A
	Oil and Grease (Hexane extractable material) Cyclohexane Extractable Material Toluene Extractable Material		
Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate	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 ₁₀ -C ₄₀)	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)	Analysis (cont'd)		
	High and 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 ₅ -C ₁₀ PRO C ₅ -C ₆ PRO C ₆ -C ₈ PRO C ₈ -C ₁₀ Total Aliphatic C ₅ -C ₁₀ Aliphatic C ₅ -C ₆ Aliphatic >C ₆ -C ₈ Aliphatic >C ₈ -C ₁₀ Total Aromatic C ₅ -C ₁₀ Aromatic C ₅ -C ₇ Aromatic >C ₇ -C ₈ Aromatic >C ₈ -C ₁₀	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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WATERS (cont'd)	<u>Chemical Tests</u>	Documented in-house methods including Waste Acceptance Criteria Leachate Preparation to BS EN 12457:2002 Parts 1-3 (DETSC 1001 & 1009)	
Laboratory Prepared Leachates (single stage 10:1 & two stage 2:1 & 8:1)	Metals: Antimony Arsenic Barium Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc	Documented In-House Method No DETSC 2306 by ICP-MS	A
	Anions: Chloride Sulphate	Documented In-House Method No DETSC 2055 by IC	
	Phenols index	Documented In-House Method No DETSC 2130 by skalar	
	Dissolved Organic Carbon	Documented In-House Method No DETSC 2085 by Infra Red TOC Analyser	
	pH	Documented In-House Method No DETSC 2008 by probe	
	Electrical Conductivity	Documented In-House Method No DETSC 2009 by probe	



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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 Nitrate Nitrite Phosphate Sulphate	Method No DETSC 2055 by ion chromatography based on EPA 9056A (Rev 1 November 2000)	A
SOILS only	Boron (water soluble)	Documented In-House Method No DETSC 2311 by ICP-OES	A



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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 ₁₀ -C ₄₀) Diesel Range (C ₁₀ -C ₂₄) Lube Oil range / Mineral Oil Range (C ₂₄ -C ₄₀)	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 ₁₀ -C ₃₅ , specifically: Total EPH (C ₁₀ -C ₃₅)	Documented In-House Method DETSC 3072 by GC-FID	A
	Total Extractable Aliphatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aliphatic) C ₁₂ -C ₁₆ (aliphatic) C ₁₆ -C ₂₁ (aliphatic) C ₂₁ -C ₃₅ (aliphatic) Total Extractable Aromatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aromatic) C ₁₂ -C ₁₆ (aromatic) C ₁₆ -C ₂₁ (aromatic) C ₂₁ -C ₃₅ (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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 (cont'd)</u> Volatile Organic Compounds: 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	Documented in house method DETSC 3431 using Headspace GCMS	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 (cont'd)</u> Volatile Organic Compounds: 1,2,4-trimethylbenzene p-isopropyltoluene 1,3-dichlorobenzene 1,4-dichlorobenzene n-butylbenzene 1,2-dichlorobenzene 1,2-dibromo-3-chloropropane 1,2,4-trichlorobenzene Naphthalene 1,2,3-trichlorobenzene 1,2-dichlorobenzene 1,2-dibromo-3-chloropropane 1,2,4-trichlorobenzene	Documented in house method DETSC 3431 using Headspace GCMS	A
	Acid Herbicides, specifically: 2,4,5-TP (Fenoprop) Clopyralid Picloram 2,3,6-TBA Dicamba Benazolin Fluroxypyr Bentazone 2,4-D Bromoxynil MCPA Triclopyr Dichloprop Ioxynil Mecoprop 2,4,5-T 2,4-DB	Documented in house method DETSC 3447 using LC-MS-MS	A
	Poly and Perfluorinated Alkyl Substances (PFAS), specific components in table one of the appendix.	Documented in house method DETSC 3443 using LC-MS-MS	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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BIOMASS and SOLID RECOVERED FUELS (cont'd)	<u>Analysis</u> (cont'd)		
	<u>Metals</u> Aluminium Arsenic Antimony Barium Beryllium Cadmium Calcium Cobalt Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorous Potassium Selenium Sodium Thallium Tin Titanium Vanadium Zinc	Documented In-House Method No DETSC 5014 using hot block digestion and ICP-OES	A
	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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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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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 ₁₀ -C ₄₀) Diesel Range (C ₁₀ -C ₂₄) Lube Oil Range / Mineral Oil Range (C ₂₄ -C ₄₀)	Documented In-House Method No DETSC 3311 by GC-FID	A
	Extractable Petroleum Hydrocarbons (EPH), C ₁₀ -C ₃₅ , specifically: Total EPH (C ₁₀ -C ₃₅)	Documented In-House Method DETSC 3072 by GC-FID	A
	Total Extractable Aliphatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aliphatic) C ₁₂ -C ₁₆ (aliphatic) C ₁₆ -C ₂₁ (aliphatic) C ₂₁ -C ₃₅ (aliphatic)		
Extractable Petroleum Hydrocarbons (EPH), C ₁₀ -C ₃₅ , specifically: Total Extractable Aromatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aromatic) C ₁₂ -C ₁₆ (aromatic) C ₁₆ -C ₂₁ (aromatic) C ₂₁ -C ₃₅ (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)	<u>Analysis (cont'd)</u> Extractable Petroleum Hydrocarbons (EPH) specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC35-EC40 >EC10-C35 >EC10-C40 >EC10-C24 >EC24-C40 Total Extractable Aliphatic Hydrocarbons specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC10-C35 >EC10-C40 Total Extractable Aromatic Hydrocarbons specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC10-C35	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd) Documented In-House Method DETSC 3521 by GC/GC-FID	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 Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene	Documented in house method No DETSC 3303 by GC-MS	A
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			



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Appendix

Table 1

Poly and Perfluorinated Alkyl Substances (PFAS) in Soils SPE Extraction, LC-MS-MS Documented In-House Method DETSC 3443 Components can be expressed in acid or salt format		
Analyte	Full Name	CAS Number
PFBA	Perfluorobutanoic Acid	(375-22-4)
PFPeA	Perfluoropentanoic Acid	(2706-90-3)
PFBS	Perfluorobutanesulfonic Acid	(375-73-5)
PFHxA	Perfluorohexanoic Acid	(307-24-4)
PFPeS	Perfluoropolyether	(2706-91-4)
HFPO-DA	Hexafluoropropylene Oxide Dimer Acid	(13252-13-6)
PFHpA	Perfluoroheptanoic Acid	(375-85-9)
PFHxS-TOT	Perfluorohexanesulfonic Acid (<i>sum of linear and branched</i>)	(355-46-4)
DONA	3H-Perfluoro-4,8-dioxanonanoic Acid	(919005-14-4)
PFOA	Perfluorooctanoic Acid	(335-67-1)
PFHpS	Perfluoroheptanesulfonic Acid	(375-92-8)
FHxSA	Perfluorohexanesulfonamide	(41997-13-1)
PFNA	Perfluorononanoic Acid	(375-95-1)
PFOS-TOT	Perfluorooctanesulfonic Acid (<i>sum of linear and branched</i>)	(1763-23-1)
PFNS	Perfluorononanesulfonate	(68259-12-1)
PFDA	Perfluorodecanoic Acid	(335-76-2)
N-MeFOSAA-TOT	N-methylperfluoro-1-octanesulfonamidoacetic Acid (<i>sum of linear and branched</i>)	(2355-31-9)
PFDS	Perfluorodecanesulfonic Acid	(335-77-3)
PFUnDA	Perfluoroundecanoic Acid	(2058-94-8)
N-EtFOSAA-TOT	2-(N-Ethylperfluorooctanesulfonamido)acetic Acid (<i>sum of linear and branched</i>)	(2991-50-6)
PFOSA	Perfluorooctanesulfonamide	(754-91-6)
L-PFUDS	Perfluoroundecanesulfonic Acid	(749786-16-1)
PFDoDA	Perfluorododecanoic Acid	(307-55-1)
L-PFDoS	Perfluoro-1-dodecanesulfonate	(79780-39-5)
L-PFTrDS	Perfluorotridecanoic Acid	(791563-89-8)



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PFHxS-B	Perfluorohexanesulfonic Acid (<i>Branched</i>)	(355-46-4)
PFHxS-L	Perfluorohexanesulfonic Acid (<i>Linear</i>)	(355-46-4)
PFOS-B	Perfluorooctanesulfonic Acid (<i>Branched</i>)	(1763-23-1)
PFOS-L	Perfluorooctanesulfonic Acid (<i>Linear</i>)	(1763-23-1)
N-MeFOSAA-B	N-methylperfluoro-1-octanesulfonamidoacetic Acid (<i>Branched</i>)	(2355-31-9)
N-MeFOSAA-L	N-methylperfluoro-1-octanesulfonamidoacetic Acid (<i>Linear</i>)	(2355-31-9)
N-EtFOSAA-B	2-(N-Ethylperfluorooctanesulfonamido) acetic Acid (<i>Branched</i>)	(2991-50-6)
N-EtFOSAA-L	2-(N-Ethylperfluorooctanesulfonamido) acetic Acid (<i>Linear</i>)	(2991-50-6)
5:3 FTCA	3-Perfluoropentyl propanoic Acid	(914637-49-3)
7:3 FTCA	2H,2H,3H,3H-Perfluorodecanoic Acid	(812-70-4)
MeFOSE	N-methylperfluorooctanesulfonamidethanol	(24448-09-7)
N-EtFOSA	N-ethylperfluorooctanesulfonamide	(4151-50-2)
N-EtFOSE	N-Ethyl-N-(2-hydroxyethyl)-perfluorooctylsulphonamide	(1691-99-2)
NFDHA	Nonafluoro-3,6-dioxaheptanoic Acid	(151772-58-6)
N-MeFOSA	N-methyl-Perfluorooctanesulfonamide	(31506-32-8)
PFEESA	Perfluoro-(2-ethoxyethane)-sulphonic Acid	(113507-82-7)
PFMBA	Perfluoro-4-methoxybutanoic Acid	(863090-89-5)