


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>4480</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Derwentside Environmental Testing Services Ltd</p> <p>Issue No: 022 Issue date: 22 April 2021</p>	
	<p>Unit 1 Rose Lane Industrial Estate Rose Lane Lenham ME17 2JN</p>	<p>Contact: Ela Mysiara Tel: +44 (0)1622 850 410 E-Mail: ela.mysiara@dets.co.uk Website: www.dets.co.uk/</p>
<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
SOILS	<p><u>Chemical Tests</u></p> <p>Total petroleum hydrocarbons: C8-C10 C8-C40 C10-C12 C10-C24 C10-C40 (total) C12-C16 C16-C21 C21-C40</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil</p> <p>E004 using solvent extraction followed by GC-FID</p>
Soils	<p>Total petroleum hydrocarbons banded fractions for aliphatic and aromatic splits: Aliphatic Fractions: C8-C10 C10-C12 C12-C16 C16-C21 C21-C34 C16-C35 C10-C40</p> <p>Aromatic Fractions: C8-C10 C10-C12 C12-C16 C16-C21 C21-C35</p>	<p>E004 using solvent extraction followed by GC-FID to MCERTS soils</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Volatile Organic Compounds: (Compounds detailed in Table 1)</p> <p>Semi Volatile Organic Compounds: (Compounds detailed in Table 2)</p> <p>Polynuclear aromatic hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenz[a,h]anthracene Benzo(a)pyrene Benzo[ghi]perylene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Indeno[1,2,3-cd]pyrene Total PAH(16)-calculation</p> <p>Elemental analysis: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Vanadium Zinc</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>E001 using Head Space GC-MS (HS/GCMS)</p> <p>E006 using solvent extraction followed by GC-MS</p> <p>E005 using solvent extraction followed by GC-MS</p> <p>E002 using Inductively Coupled plasma Spectrophotometry (ICP-OES)</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<u>Chemical Tests</u> (cont'd) Acid Extractable Sulphate pH Water soluble: Chloride Nitrate Sulphate Total Organic Carbon Soils Organic Matter (by calculation) Fraction Organic Matter (by calculation) Ammonia Total Organic Carbon	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd) E013 using Inductively Coupled plasma Spectrophotometry (ICP-OES) E007 using pH Meter E009 using ion chromatography E010 based on Walkely-Black methodology E029 using 1M KCl extraction and Gallery discrete colorimetric analysis E027 by combustion
SOILS	<u>Chemical Tests</u> Total petroleum hydrocarbons: C8-C10 C8-C40 C10-C12 C10-C24 C10-C40 (total) C12-C16 C16-C21 C21-C40 Volatile Organic Compounds: (Compounds detailed in Table 1) Semi Volatile Organic Compounds: (Compounds detailed in Table 2)	Documented In-House Method (Non MCERTS) E004 using solvent extraction followed by GC-FID E001 using Head Space GC-MS (HS/GCMS) E006 using solvent extraction followed by GC-MS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/Equipment/Techniques used
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> Polynuclear aromatic hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenz[a,h]anthracene Benzo[ghi]perylene Chrysene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Total PAH(16)-calculation	Documented In-House Method (Non MCERTS) (cont'd) E005 using solvent extraction followed by GC-MS
	Elemental analysis: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Vanadium Zinc	E002 using Inductively Coupled plasma Spectrophotometry (ICP-OES)
	pH	E007 using pH Meter
Sand, loam and clay type soils	Water soluble: Chloride Nitrate Sulphate	E009 using ion chromatography



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS</p> <p>Potable waters (non-regulatory), surface waters, ground waters and prepared leachates</p>	<p><u>Chemical Tests</u></p> <p>pH</p> <p>Volatile Organic Compounds (Compounds detailed in Table 1)</p> <p>Dissolved: Fluoride Chloride Nitrate Sulphate</p> <p>Ammonia</p> <p>Aluminium Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Mercury Manganese Magnesium Molybdenum Potassium Sodium Nickel Lead Antimony Selenium Tin Vanadium Zinc</p>	<p>Documented In-House Method</p> <p>E107 using pH meter</p> <p>E101 using Head Space GC-MS</p> <p>E109 using ion chromatography</p> <p>E126 using Gallery discrete colorimetric analysis</p> <p>E102 using ICPMS</p>
END		



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TABLE1: VOCs

Soils		potable waters (non-regulatory), surface waters, ground waters and prepared leachates
E001, VOC (MCERTS)	E001, VOC (ISO 17025)	E101 VOCs (ISO 17025)
1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane	1,1,1-Trichloroethane	1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane
1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene
1,1-Dichloropropene	1,1-Dichloropropene	1,1-Dichloropropene
1,2,3-Trichloropropane	1,2,3-Trichloropropane	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane
1,2-Dichlorobenzene	1,2-Dichlorobenzene	1,2-Dichlorobenzene
1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane
1,2-Dichloropropane	1,2-Dichloropropane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene
1,3-Dichlorobenzene	1,3-Dichlorobenzene	1,3-Dichlorobenzene
1,3-Dichloropropane	1,3-Dichloropropane	1,3-Dichloropropane
1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene
2,2-Dichloropropane	2,2-Dichloropropane	2,2-Dichloropropane
2-Chlorotoluene	2-Chlorotoluene	2-Chlorotoluene
4-Chlorotoluene	4-Chlorotoluene	4-Chlorotoluene
Benzene	Benzene	Benzene
Bromobenzene	Bromobenzene	Bromobenzene
Bromochloromethane	Bromochloromethane	Bromochloromethane
Bromodichloromethane	Bromodichloromethane	Bromodichloromethane
Bromoform	Bromoform	Bromoform
Bromomethane	Bromomethane	Bromomethane
Carbon Tetrachloride	Carbon Tetrachloride	Carbon Tetrachloride
Chlorobenzene	Chlorobenzene	Chlorobenzene
Chloroethane	Chloroethane	Chloroethane
Chloroform	Chloroform	Chloroform
Chloromethane	Chloromethane	Chloromethane
cis-1,2-Dichloroethene	cis-1,2-Dichloroethene	cis-1,2-Dichloroethene
cis-1,3-Dichloropropene	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene
Dibromochloromethane	Dibromochloromethane	Dibromochloromethane
Dibromomethane	Dibromomethane	Dibromomethane
Dichlorodifluoromethane	Dichlorodifluoromethane	Dichlorodifluoromethane
Ethyl Benzene	Ethyl Benzene	Ethyl Benzene
Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene
Isopropylbenzene	Isopropylbenzene	Isopropylbenzene
p-Isopropyltoluene	p-Isopropyltoluene	p-Isopropyltoluene
n-Butylbenzene	n-Butylbenzene	n-Butylbenzene



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Soils		potable waters (non-regulatory), surface waters, ground waters and prepared leachates
n-Propylbenzene	n-Propylbenzene	n-Propylbenzene
sec-Butylbenzene	sec-Butylbenzene	sec-Butylbenzene
Methyl Tert-Butyl Ether	Methyl Tert-Butyl Ether	Methyl Tert-Butyl Ether
Tert-Amyl Methyl Ether	Tert-Amyl Methyl Ether	Tert-Amyl Methyl Ether
tert-Butylbenzene	tert-Butylbenzene	tert-Butylbenzene
Styrene	Styrene	Styrene
Tetrachloroethene	Tetrachloroethene	Tetrachloroethene
Toluene	Toluene	Toluene
trans-1,2-Dichloroethene	trans-1,2-Dichloroethene	trans-1,2-Dichloroethene
trans-1,3-Dichloropropene	trans-1,3-Dichloropropene	trans-1,3-Dichloropropene
Trichloroethene	Trichloroethene	Trichloroethene
Trichlorofluoromethane	Trichlorofluoromethane	Trichlorofluoromethane
o-Xylene	o-Xylene	o-Xylene
m,p-Xylene	m,p-Xylene	m,p-Xylene
Vinyl Chloride	Vinyl Chloride	Vinyl Chloride
End of this column	End of this column	End of this column



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TABLE 2: SVOCs

Soils	
E006, SVOCs (MCERTS)	E006, SVOCs (ISO 17025)
2,4,5-Trichlorophenol	1,2,4-Trichlorobenzene
2,4,6-Trichlorophenol	1,2-Dichlorobenzene
2,4-Dichlorophenol	1,3-Dichlorobenzene
2,4-Dinitrotoluene	1,4-Dichlorobenzene
2,6-Dinitrotoluene	2,4,5-Trichlorophenol
2-Chloronaphthalene	2,4,6-Trichlorophenol
2-Methylnaphthalene	2,4-Dichlorophenol
4-Bromophenyl phenyl ether	2,4-Dimethylphenol
4-Chlorophenyl phenyl ether	2,4-Dinitrotoluene
Benzyl butyl phthalate	2,6-Dinitrotoluene
bis(2-chloroethoxy)methane	2-Chloronaphthalene
bis(2-chloroethyl)ether	2-Chlorophenol
bis(2-ethylhexyl) phthalate	2-Methylnaphthalene
Dibenzofuran	4-Bromophenyl phenyl ether
Diethyl phthalate	4-Chlorophenyl phenyl ether
Di-n-octyl phthalate	Benzyl butyl phthalate
Hexachlorobenzene	bis(2-chloroethoxy)methane
Hexachloroethane	bis(2-chloroethyl)ether
Nitrobenzene	bis(2-ethylhexyl)phthalate
p-Cresol	Carbazole
End of this column	Dibenzofuran
	Dibutyl phthalate
	Diethyl phthalate
	Di-n-octyl phthalate
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachloroethane
	Nitrobenzene
	p-Cresol
	End of this column