

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Metals</b>									
Aluminium (total)	CE127	Aqua regia digest, ICP-MS			9	mg/kg	Plastic,Glass		180 days
Antimony (total)	CE127	Aqua regia digest, ICP-MS	U		0.2	mg/kg	Plastic,Glass		180 days
Arsenic (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Barium (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Beryllium (total)	CE127	Aqua regia digest, ICP-MS	U		1	mg/kg	Plastic,Glass		180 days
Boron (water soluble)	CE063	Hot water extract, ICP-OES	M		0.5	mg/kg	Plastic,Glass		30 days
Cadmium (total)	CE127	Aqua regia digest, ICP-MS	M		0.2	mg/kg	Plastic,Glass		180 days
Calcium (total)	CE127	Aqua regia digest, ICP-MS			285	mg/kg	Plastic,Glass		180 days
Chromium (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Chromium (hexavalent)	CE146	Acid extraction, Colorimetry			1	mg/kg	Plastic,Glass		30 days
Chromium (III)	CE208	Calculation: Cr (total) - Cr (VI)			1	mg/kg	-		-
Cobalt (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Copper (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Iron (total)	CE127	Aqua regia digest, ICP-MS			38	mg/kg	Plastic,Glass		180 days
Lead (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Magnesium (total)	CE127	Aqua regia digest, ICP-MS			10	mg/kg	Plastic,Glass		180 days
Manganese (total)	CE127	Aqua regia digest, ICP-MS			1	mg/kg	Plastic,Glass		180 days
Mercury (total)	CE127	Aqua regia digest, ICP-MS	M		0.5	mg/kg	Plastic,Glass		180 days
Molybdenum (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Nickel (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Potassium (total)	CE127	Aqua regia digest, ICP-MS			20	mg/kg	Plastic,Glass		180 days
Selenium (total)	CE127	Aqua regia digest, ICP-MS	M		0.3	mg/kg	Plastic,Glass		180 days
Sodium (total)	CE127	Aqua regia digest, ICP-MS			22	mg/kg	Plastic,Glass		180 days
Thallium (total)	CE127	Aqua regia digest, ICP-MS			1	mg/kg	Plastic,Glass		180 days
Tin (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Vanadium (total)	CE127	Aqua regia digest, ICP-MS	M		1	mg/kg	Plastic,Glass		180 days
Zinc (total)	CE127	Aqua regia digest, ICP-MS	M		5	mg/kg	Plastic,Glass		180 days
Magnesium (extractable)	CE088	Ammonium Nitrate, ICP-MS			1	mg/kg	Plastic,Glass		28 days
Phosphorus (extractable)	CE089	Sodium bicarbonate extraction, ICP-MS			1	mg/kg	Plastic,Glass		28 days
Potassium (extractable)	CE088	Ammonium Nitrate, ICP-MS			1	mg/kg	Plastic,Glass		28 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Inorganics</b>									
pH	CE004	Based on BS 1377, pH Meter	M		-	units	Plastic,Glass		21 days
Ammonia	CE144	KCl extraction, Colorimetry			1	mg/kg N	Plastic,Glass		28 days
Ammoniacal Nitrogen	CE144	KCl extraction, Colorimetry			1	mg/kg NH <sub>4</sub>	Plastic,Glass		28 days
Electrical conductivity	CE007	Conductivity Meter	U		10	µS/cm	Plastic,Glass		28 days
Magnesium (2:1 water soluble)	CE061	Aqueous extraction, ICP-OES			1	mg/l	Plastic,Glass		28 days
Chloride (2:1 water soluble)	CE193	Aqueous extraction, IC-COND	U		1	mg/l	Plastic,Glass		28 days
Fluoride (2:1 water soluble)	CE193	Aqueous extraction, IC-COND			0.1	mg/l	Plastic,Glass		28 days
Nitrate (2:1 water soluble)	CE193	Aqueous extraction, IC-COND	U		1	mg/l	Plastic,Glass		28 days
Nitrite (2:1 water soluble)	CE193	Aqueous extraction, IC-COND			1	mg/l	Plastic,Glass		28 days
Phosphate (2:1 water soluble)	CE193	Aqueous extraction, IC-COND			1	mg/l	Plastic,Glass		28 days
Sulphate (2:1 water soluble)	CE193	Aqueous extraction, IC-COND	U		10	mg/l	Plastic,Glass		28 days
Sulphate (2:1 water soluble)	CE061	Aqueous extraction, ICP-OES	M		10	mg/l	Plastic,Glass		28 days
Sulphate (total)	CE062	Acid extraction, ICP-OES	M		100	mg/kg	Plastic,Glass		28 days
Sulphur (free)	CE034	Solvent extraction, HPLC	M		10	mg/kg	Plastic,Glass		28 days
Sulphur (total)	CE127	Acid extraction, ICP-MS			100	mg/kg	Plastic,Glass		28 days
Sulphide	CE016	Acid distillation, Titration			10	mg/kg	Plastic,Glass		7 days
Cyanide (free)	CE077	Extraction, Continuous Flow Colorimetry			1	mg/kg	Plastic,Glass		14 days
Cyanide (complex)	CE077	Calculation: CN (total) - CN (free)			1	mg/kg	Plastic,Glass		14 days
Cyanide (total)	CE077	Extraction, Continuous Flow Colorimetry			1	mg/kg	Plastic,Glass		14 days
Thiocyanate	CE145	Weak acid extraction, Colorimetry	M		1	mg/kg	Plastic,Glass		14 days
Phenols (total)	CE078	Extraction, Continuous Flow Colorimetry			0.5	mg/kg	Plastic,Glass		28 days
Total Carbon	CE197	Combustion, Carbon Analyser			0.1	% w/w	Plastic,Glass		28 days
Total Organic Carbon	CE197	Combustion, Carbon Analyser			0.1	% w/w	Plastic,Glass		28 days
Estimate of OMC (calculated from TOC)	CE197	OMC calculated from TOC			0.1	% w/w	Plastic,Glass		28 days
Estimate of FOC (calculated from TOC)	CE197	FOC calculated from TOC			0.001	-	Plastic,Glass		28 days
Inorganic Carbon (by difference)	CE197	Combustion, Carbon Analyser			0.1	% w/w	Plastic,Glass		28 days
Carbonate (by difference)	CE197	Carbon Analyser, calculation TC-TOC			0.1	% w/w	Plastic,Glass		28 days
Loss On Ignition at 440°C	CE006	Based on BS 1377, Gravimetry	U		0.1	% w/w	Plastic,Glass		28 days
Loss On Ignition between 180°C & 440°C	CE150	HMRC LFT1 : Combustion, Gravimetry			0.1	% w/w	Plastic,Glass		28 days
Nitrogen (total)	CE198	Combustion, Nitrogen Analyser			0.1	% w/w	Plastic,Glass		28 days
Carbon:Nitrogen ratio	CE222	Calculation: TOC/Nitrogen (total)			0.1	-	Plastic,Glass		28 days
Acid Neutralising Capacity	CE083	Aqueous extraction, Titration			0.02	mol/kg	Plastic,Glass		28 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>PAHs</b>									
Naphthalene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Acenaphthylene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Acenaphthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Fluorene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Phenanthrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Anthracene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Fluoranthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Pyrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(a)anthracene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Chrysene	CE087	Solvent extraction, GC-MS	M		0.03	mg/kg	Glass		*14 days
Benzo(b)fluoranthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(k)fluoranthene	CE087	Solvent extraction, GC-MS	M		0.03	mg/kg	Glass		*14 days
Benzo(a)pyrene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Indeno(123cd)pyrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Dibenz(ah)anthracene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(ghi)perylene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
PAH (total of USEPA 16)	CE087	Solvent extraction, GC-MS			0.34	mg/kg	Glass		*14 days
Coronene	CE087	Solvent extraction, GC-MS			0.02	mg/kg	Glass		*14 days
PAH (total of 17)	CE087	Solvent extraction, GC-MS			0.36	mg/kg	Glass		*14 days
<b>BTEX &amp; MTBE</b>									
MTBE	CE192	Headspace GC-FID	U		0.02	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Benzene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Toluene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Ethylbenzene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
m & p-Xylene	CE192	Headspace GC-FID	U		0.02	mg/kg	VOC jar	Fill to brim, no headspace	14 days
o-Xylene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
BTEX (total)	CE192	Headspace GC-FID			0.06	mg/kg	VOC jar	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited  
U = UKAS accredited

\$ = Subcontracted  
\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>TPH Banded</b>									
VPH (>C5-C10)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH (>C5-C7)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH (>C7-C8)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH (>C8-C10)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
EPH (>C10-C35)	CE033	Solvent extraction, GC-FID			7	mg/kg	Glass		*14 days
EPH (>C10-C40)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C44)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C16)	CE033	Solvent extraction, GC-FID			7	mg/kg	Glass		*14 days
EPH (>C16-C40)	CE033	Solvent extraction, GC-FID			6	mg/kg	Glass		*14 days
EPH (>C10-C20)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C20-C40)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C21)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C21-C40)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C25)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C25-C40)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C28)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C28-C40)	CE033	Solvent extraction, GC-FID	M		10	mg/kg	Glass		*14 days
EPH (>C10-C12)	CE033	Solvent extraction, GC-FID	M		4	mg/kg	Glass		*14 days
EPH (>C12-C16)	CE033	Solvent extraction, GC-FID	M		4	mg/kg	Glass		*14 days
EPH (>C16-C21)	CE033	Solvent extraction, GC-FID	M		4	mg/kg	Glass		*14 days
EPH (>C16-C35)	CE033	Solvent extraction, GC-FID	M		4	mg/kg	Glass		*14 days
EPH (>C21-C35)	CE033	Solvent extraction, GC-FID	M		6	mg/kg	Glass		*14 days
EPH (>C35-C40)	CE033	Solvent extraction, GC-FID	U		10	mg/kg	Glass		*14 days
EPH (>C35-C44)	CE033	Solvent extraction, GC-FID	U		10	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>TPH Aliphatic/Aromatic</b>									
VPH Aliphatic (>C5-C6)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH Aliphatic (>C6-C8)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH Aliphatic (>C8-C10)	CE067	Headspace GC-FID			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC5-EC7)	CE067	Headspace GC-FID			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC7-EC8)	CE067	Headspace GC-FID			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC8-EC10)	CE067	Headspace GC-FID			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
EPH Aliphatic (>C10-C12)	CE250	Solvent extraction, GCxGC-FID			5	mg/kg	Glass		*14 days
EPH Aliphatic (>C12-C16)	CE250	Solvent extraction, GCxGC-FID			5	mg/kg	Glass		*14 days
EPH Aliphatic (>C16-C21)	CE250	Solvent extraction, GCxGC-FID			6	mg/kg	Glass		*14 days
EPH Aliphatic (>C16-C35)	CE250	Solvent extraction, GCxGC-FID			15	mg/kg	Glass		*14 days
EPH Aliphatic (>C21-C35)	CE250	Solvent extraction, GCxGC-FID			14	mg/kg	Glass		*14 days
EPH Aliphatic (>C35-C44)	CE250	Solvent extraction, GCxGC-FID			3	mg/kg	Glass		*14 days
EPH Aromatic (>EC10-EC12)	CE250	Solvent extraction, GCxGC-FID			6	mg/kg	Glass		*14 days
EPH Aromatic (>EC12-EC16)	CE250	Solvent extraction, GCxGC-FID			7	mg/kg	Glass		*14 days
EPH Aromatic (>EC16-EC21)	CE250	Solvent extraction, GCxGC-FID			4	mg/kg	Glass		*14 days
EPH Aromatic (>EC21-EC35)	CE250	Solvent extraction, GCxGC-FID			8	mg/kg	Glass		*14 days
EPH Aromatic (>EC35-EC44)	CE250	Solvent extraction, GCxGC-FID			3	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Volatile Organic Compounds</b>									
MTBE	CE192	Headspace GC-FID	U		0.02	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Benzene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Toluene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Ethylbenzene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
m & p-Xylene	CE192	Headspace GC-FID	U		0.02	mg/kg	VOC jar	Fill to brim, no headspace	14 days
o-Xylene	CE192	Headspace GC-FID	U		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Dichlorodifluoromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Chloromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Vinyl chloride	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Bromomethane	CE174	Headspace GC-MS			0.03	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Chloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Trichlorofluoromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1-Dichloroethene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Trans-1,2-Dichloroethene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
MTBE	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1-Dichloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
2,2-Dichloropropane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Cis-1,2-Dichloroethene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Bromochloromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Chloroform	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1,1-Trichloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Carbon tetrachloride	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1-Dichloro-1-propene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Benzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2-Dichloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Trichloroethene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2-Dichloropropane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Dibromomethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Bromodichloromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
cis-1,3-Dichloro-1-propene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Toluene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
trans-1,3-Dichloro-1-propene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1,2-Trichloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Volatile Organic Compounds (cont)</b>									
Tetrachloroethene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,3-Dichloropropane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Dibromochloromethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2-Dibromoethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Chlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1,1,2-Tetrachloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Styrene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Tribromomethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Isopropylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Bromobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,1,2,2-Tetrachloroethane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Ethylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
m & p-Xylene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
o-Xylene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2,3-Trichloropropane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Propylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
2-Chlorotoluene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
4-Chlorotoluene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,3,5-Trimethylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
tert-Butylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2,4-Trimethylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
sec-Butylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,3-Dichlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
4-Isopropyltoluene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,4-Dichlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2-Dichlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Butylbenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2-Dibromo-3-chloropropane	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2,4-Trichlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
Hexachloro-1,3-butadiene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
1,2,3-Trichlorobenzene	CE174	Headspace GC-MS			0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
VOC Tentatively Identified Compounds	CE174	Headspace GC-MS			0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Semi-volatile Organic Compounds</b>									
Naphthalene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Acenaphthylene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Acenaphthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Fluorene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Phenanthrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Anthracene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Fluoranthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Pyrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(a)anthracene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Chrysene	CE087	Solvent extraction, GC-MS	M		0.03	mg/kg	Glass		*14 days
Benzo(b)fluoranthene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(k)fluoranthene	CE087	Solvent extraction, GC-MS	M		0.03	mg/kg	Glass		*14 days
Benzo(a)pyrene	CE087	Solvent extraction, GC-MS	U		0.02	mg/kg	Glass		*14 days
Indeno(123cd)pyrene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Dibenz(ah)anthracene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
Benzo(ghi)perylene	CE087	Solvent extraction, GC-MS	M		0.02	mg/kg	Glass		*14 days
N-Nitrosodimethylamine	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Phenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Bis(2-chloroethyl)ether	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Chlorophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
1,3-Dichlorobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
1,4-Dichlorobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Methylphenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
1,2-Dichlorobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Bis(2-chloroisopropyl)ether	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
3&4-Methylphenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
N-Nitrosodi-n-propylamine	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Hexachloroethane	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Nitrobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Isophorone	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,4-Dimethylphenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Nitrophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Bis(2-chloroethoxy)methane	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days



# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Semi-volatile Organic Compounds (cont)</b>									
2,4-Dichlorophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
1,2,4-Trichlorobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Chloroaniline	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Hexachlorobutadiene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Chloro-3-methylphenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Methylnaphthalene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
1-Methylnaphthalene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Hexachlorocyclopentadiene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,4,6-Trichlorophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,4,5-Trichlorophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Chloronaphthalene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Nitroaniline	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Dimethyl phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,6-Dinitrotoluene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
3-Nitroaniline	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,4-Dinitrophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Nitrophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2,4-Dinitrotoluene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Dibenzofuran	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Diethyl phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Chlorophenylphenyl ether	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Nitroaniline	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
2-Methyl-4,6-dinitrophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Azobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
4-Bromophenylphenyl ether	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Hexachlorobenzene	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Pentachlorophenol	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Carbazole	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Di-n-butyl phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Butylbenzyl phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Bis(2-ethylhexyl)phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
Di-n-octyl phthalate	CE189	Solvent extraction, GC-MS			0.1	mg/kg	Glass		*14 days
SVOC Tentatively Identified Compounds	CE189	Solvent extraction, GC-MS			1	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Phenols (speciated)</b>									
Dimethylphenols	CE189	Solvent extraction, GCMS			0.1	mg/kg	Glass		28 days
Methylphenols	CE189	Solvent extraction, GCMS			0.1	mg/kg	Glass		28 days
Naphthols	CE189	Solvent extraction, GCMS			0.1	mg/kg	Glass		28 days
Phenol	CE189	Solvent extraction, GCMS			0.1	mg/kg	Glass		28 days
Trimethylphenol	CE189	Solvent extraction, GCMS			0.1	mg/kg	Glass		28 days
<b>PCB (ICES 7)</b>									
PCB Congener 28	CE137	Solvent extraction, GC-MS	M		0.004	mg/kg	Glass		*14 days
PCB Congener 52	CE137	Solvent extraction, GC-MS	M		0.004	mg/kg	Glass		*14 days
PCB Congener 101	CE137	Solvent extraction, GC-MS	M		0.008	mg/kg	Glass		*14 days
PCB Congener 118	CE137	Solvent extraction, GC-MS	M		0.006	mg/kg	Glass		*14 days
PCB Congener 138	CE137	Solvent extraction, GC-MS	M		0.006	mg/kg	Glass		*14 days
PCB Congener 153	CE137	Solvent extraction, GC-MS	M		0.009	mg/kg	Glass		*14 days
PCB Congener 180	CE137	Solvent extraction, GC-MS	M		0.008	mg/kg	Glass		*14 days
PCB (total of ICES 7)	CE137	Solvent extraction, GC-MS	M		0.045	mg/kg	Glass		*14 days
<b>PCB (WHO 12)</b>									
PCB Congener 77	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 81	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 105	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 114	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 118	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 123	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 126	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 156	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 157	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 167	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 169	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB Congener 189	CE181	Solvent extraction, GC-MS			0.006	mg/kg	Glass		*14 days
PCB (total of WHO 12)	CE181	Solvent extraction, GC-MS			0.072	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Organochlorine pesticides</b>									
2,4'-DDD (O,P'-DDD)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4,4'-DDD (P,P'-DDD)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,4'-DDE (O,P'-DDE)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4,4'-DDE (P,P'-DDE)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,4'-DDT (O,P'-DDT)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4,4'-DDT (P,P'-DDT)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4,4'-TDE (P,P'-TDE)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,6-Dichlorobenzonitrile	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4,4'-Dichlorobenzophenone	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Aldrin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Alpha-HCH	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Benfluralin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Beta-HCH	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Biphenyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chlorfenson	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chloroneb	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chlorothalonil	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
cis-Chlordane	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
cis-Nonachlor	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Delta-HCH	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dichlofluanid	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dicloran	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dicofol	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dieldrin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Diphenylamine	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endosulphan A	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endosulphan B	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endosulphan ether	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endosulphan sulphate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endrin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endrin aldehyde	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Endrin ketone	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Organochlorine pesticides (cont)</b>									
Ethalfuralin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Fenson	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Gamma-HCH (Lindane)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
HCB	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Heptachlor	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Heptachlor epoxide	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Isodrin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Isopropalin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Isopropalin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Methoxychlor	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Methoxychlor olefin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Mirex	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Nitralin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Nitrofen	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Oxyfluorfen	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pendimethalin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachloroaniline	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachloroanisole	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachlorobenzene	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachlorobenzonitrile	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachloronitrobenzene (Quintozene)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachloroethoxyanisole	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Prodiamine	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Profluralin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Tetrachloronitrobenzene (Tecnazene)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Tetradifon	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
THPI (Tetrahydrophthalimide)	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Tolyfluamid	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
trans-Chordane	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
trans-Nonachlor	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Trifluralin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Organophosphate pesticides</b>									
Acephate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Azinphos ethyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Azinphos methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Bromophos ethyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chlorpyrifos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chlorpyrifos methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Coumaphos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Demeton-S-methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Diazinon	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dichlorvos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dimethoate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Disulfoton	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
EPN	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Ethion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Ethoprophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Famphur	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Fenchlorphos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Fenitrothion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Fensulfothion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Isazophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Malathion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Merphos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Methamidophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Methodathion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Methomyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Monocrotophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Naled	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Omethoate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Parathion	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Parathion methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Phorate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Phosalone	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Organophosphate pesticides (cont)</b>									
Phosmet	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pirimiphos ethyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pirimiphos methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Profenofos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Prothiophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pyraclufos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pyrazophos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pyridaphention	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Quinalphos	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Sulfotep	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Thiofanox	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Thionazin	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Tolclofos-methyl	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Trichlorfon	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Trichlorfon	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Triethyl thiophosphate	CE189	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Acid herbicides</b>									
2,4-D	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,4,5-T	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,4-DB	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Acifluorfen	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Bentazon	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Bromoxynil	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Chloramben	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dalapon	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dicamba	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
3,5-Dichlorobenzoic acid (DBA)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dichlorprop (2,4-DP)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Dinoseb (DNBP)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,4,5-TP	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Fluroxypyr	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Imazapyr	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Ioxynil	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
MCPA	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
MCPP	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Mecoprop (MCP)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Pentachlorophenol	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Picloram	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
2,3,6-TBA	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
4-Chlorophenoxyacetic acid (4-CPA)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Phenoxyacetic acid	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Phenoxybutyric acid	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Phenoxypropionic acid	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Propanil (DCPA)	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
DCPA diacid	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Organonitrogen pesticides</b>									
Ametryn	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Atraton	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Atrazine	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Prometon	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Prometryn	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Propazine	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Secbumbeton	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Simazine	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Simetryn	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Terbutylazine	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
Terbutryn	\$	Solvent extraction, GC-MS			0.01	mg/kg	Glass		*14 days
<b>Miscellaneous</b>									
Absorbable Organic Halides (AOX)	\$	Based on BS EN ISO 9562:2004, Behr Coulometric analyser			0.1	mg/kg	Amber Glass		7 days
Aminopyralid, Clopyralid and Triclopyr	\$	LC-MS / GC-MS			0.1	mg/kg	Amber Glass		-
Anthrax	\$	FYOS67	U		-	-	Plastic		-
Benzoic Acid	\$	HPLC			0.1	mg/kg	Amber Glass		-
Biphenyl	\$	Details on request			0.1	mg/kg	Amber Glass		14 days
Calorific value	\$	Combustion, Bomb Calorimetry			100	kJ/kg	Plastic, Glass		28 days
Carbon Disulphide	\$	Details on request			5	µg/kg	Amber Glass		14 days
Cypermethrin	\$	GC-MS QQQ			0.1	µg/kg	Amber Glass		30 days
Dioxins & Furans, Dioxin like PCBs	\$	Solvent extraction, High Resolution GCMS	U		Various		Glass		7 days
Glycols	\$	Extraction, GC-MS QQQ/FID			100	mg/kg	Glass Vial		-
Glyphosate & AMPA	\$	GC-MS			10	ug/kg	Plastic		14 days
Hexabromocyclododecane (HBCDD)	\$	Solvent extraction, GC-MS			0.1	mg/kg	Plastic, Glass		30 days
Lignite (XRD)	\$	Powder diffraction			0.1	%	Plastic, Glass		-
Nitrogen (total) Dumas	\$	EPA-600/4-79-020			0.02	%	Gripeal Bag		-
Refractory Ceramic Fibres (RCF)	\$	SEM/EDXA			0.001	%	Plastic, Glass		-
2,4,6-Trinitrophenol	\$	HPLC	M		0.1	mg/kg	Amber Glass		-



# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>PBB</b>									
BB-3	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-15	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-29	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-49	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-52	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-77	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-80	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-101	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-103	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-126	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-153	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-169	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-180	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-194	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-206	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
BB-209	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
<b>PBDE</b>									
PBDE-17	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-28	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-47	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-66	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-71	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-85	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-99	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-100	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-128	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-138	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-153	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-154	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-175	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-183	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-203	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-206	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days
PBDE-209	\$	Solvent extraction, GC-MS			10	µg/kg	Plastic,Glass		30 days

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited  
U = UKAS accredited

\$ = Subcontracted  
\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>PFOS &amp; PFOA</b>									
Perfluorooctyl sulphonate (PFOS)	\$	LC-MS			10	µg/kg	Plastic,Glass		N/A
Perfluorooctanoic acid (PFOA)	\$	LC-MS			10	µg/kg	Plastic,Glass		N/A
<b>Polychlorinated Naphthalenes (PCNs)</b>									
Dichloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Trichloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Tetrachloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Pentachloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Hexachloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Heptachloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Octachloranaphthalene	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
Polychlorinated naphthalenes (total)	\$	Solvent extraction, GC-MS			10	mg/kg	Plastic,Glass		30 days
<b>Organotins</b>									
Dibutyl tin	\$	Extraction, GC-MS			1	µg/kg	Amber Glass		29 days
Tetrabutyl tin	\$	Extraction, GC-MS			1	µg/kg	Amber Glass		29 days
Tributyl tin	\$	Extraction, GC-MS			1	µg/kg	Amber Glass		29 days
Triphenyl tin	\$	Extraction, GC-MS			1	µg/kg	Amber Glass		29 days
<b>Asbestos</b>									
Asbestos (qualitative)	\$	HSG 248, Microscopy	U		-	-	Double Bagged	-	-
Asbestos (quantitative)	\$	Gravimetry	U		0.001	% w/w	Double Bagged	-	-
<b>ENA Cable Insulation Tests (Sand)</b>									
Thermal Conductivity	\$	ASTM D5334-14	-	U	0.01	W/m-K	Bulk Bag		-
Thermal Conductivity (Cement Bound)	\$	ASTM D5334-14	-	U	0.01	W/m-K	Bulk Bag		-
Thermal Resistivity	\$	ASTM D5334-14	-	U	0.01	°C·Cm/W	Bulk Bag		-
Thermal Resistivity (Cement Bound)	\$	ASTM D5334-14	-	U	0.01	°C·Cm/W	Bulk Bag		-
Void Ratio (Cable Sand)	\$	ENA TS 97-1 Annex F	-	U	0.01	-	Bulk Bag		-
Dry Density	\$	ENA TS 97-1 Annex A	-	U	0.01	Mg/m <sup>3</sup>	Bulk Bag		-
Determination of Cohesion	\$	ENA TS 97-1 Annex C	-	U	-	-	Bulk Bag		-

# TECHNICAL DETAILS SUMMARY

## SOILS & SOLIDS



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

SOILS	METHOD	METHOD SUMMARY	STATUS		LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			Soil	Solid					
<b>Geotechnical</b>									
California Bearing Test (CBR) remoulded	\$	BS 1337 Part 4 1990	U	U	-	-	Bulk Bag		-
California Bearing Test (CBR) soaked	\$	BS 1337 Part 4 1990			-	-	Bulk Bag		-
Compaction Test (2.5kg)	\$	BS1377	U	U	-	-	Bulk Bag		-
Liquid & Plastic Limit (aka Plasticity/Atterburg)	\$	BS 1377 Part 2 1990	U	U	-	-	Plastic		-
Moisture Content	\$	BS 1377 Part 2 1990	U	U	-	-	Plastic		-
PSD (Sedimentation)	\$	BS 1377 Part 2 1990	U	U	-	-	Plastic		-
PSD (Sieve)	\$	BS 1377 Part 2 1990	U	U	-	-	Plastic		-
Particle Density	\$	EN 1097-6	U	U	-	-	Bulk Bag		-
Particle Size Distribution	\$	EN 933-1	U	U	-	-	Bulk Bag		-
Permeability in a triaxial cell	\$	BS1377	U	U	-	-	Bag		-
Resistance to Fragmentation (LA)	\$	EN 933-11	U	U			Bulk Bag		-
Undrained triaxial (single stage quick)	\$	BS1377	U	U	-	-	Bag		-
<b>Microbiology</b>									
Enumeration of E.coli	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of Enterococci	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of total coliforms	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of anaerobic sulphite reducing Clostridia	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of Clostridium perfringens	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of Pseudomonas aeruginosa	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Enumeration of Salmonella	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Total colony count	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Presence/absence of Salmonella	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
Presence/absence of E.coli		Details on request			10	cfu/g	Sterile Bottle		1 day
TVC @ 22°C	\$	Details on request			10	cfu/g	Sterile Bottle		1 day
TVC @ 37°C	\$	Details on request			10	cfu/g	Sterile Bottle		1 day

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

FINES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Loss On Ignition at 440°C	CE150	HMRC LFT1 : Combustion, Gravimetry		0.1	% w/w	Plastic,Glass	-	N/A

CONCRETE	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Cement content	\$	Based on BS1881-124		0.01	% w/w	Plastic,Glass	-	N/A
Chloride (total)	CE142	Based on BS1881-124		0.05	% w/w	Plastic,Glass	-	N/A
Sulphate (total)	CE164	Based on BS1881-124		0.01	% w/w	Plastic,Glass	-	N/A

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Preparation</b>								
Leachate preparation (EA)	CE002	L:S 10:1		-	-	-	-	-
Leachate preparation (single-stage)	CE002	BS12457-1 or BS12457-2		-	-	-	-	-
Leachate preparation (two-stage)	CE002	BS12457-3		-	-	-	-	-

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Metals</b>								
Aluminium (dissolved)	CE128	ICP-MS	U	4	µg/l Al	Plastic		180 days
Antimony (dissolved)	CE128	ICP-MS	U	0.1	µg/l Sb	Plastic		180 days
Arsenic (dissolved)	CE128	ICP-MS	U	0.06	µg/l As	Plastic		180 days
Barium (dissolved)	CE128	ICP-MS	U	0.6	µg/l Ba	Plastic		180 days
Beryllium (dissolved)	CE128	ICP-MS	U	0.06	µg/l Be	Plastic		180 days
Boron (dissolved)	CE128	ICP-MS	U	8	µg/l B	Plastic		180 days
Cadmium (dissolved)	CE128	ICP-MS	U	0.07	µg/l Cd	Plastic		180 days
Calcium (dissolved)	CE128	ICP-MS	U	0.04	mg/l Ca	Plastic		180 days
Chromium (dissolved)	CE128	ICP-MS	U	0.2	µg/l Cr	Plastic		180 days
Chromium (hexavalent)	CE050	Colorimetry	U	10	µg/l CrVI	Plastic		30 days
Chromium (III)	CE207	Calculation: Cr (total) - Cr (VI)		10	µg/l CrIII	-		-
Cobalt (dissolved)	CE128	ICP-MS	U	0.2	µg/l Co	Plastic		180 days
Copper (dissolved)	CE128	ICP-MS	U	0.4	µg/l Cu	Plastic		180 days
Iron (dissolved)	CE128	ICP-MS	U	3	µg/l Fe	Plastic		180 days
Lead (dissolved)	CE128	ICP-MS	U	0.2	µg/l Pb	Plastic		180 days
Magnesium (dissolved)	CE128	ICP-MS	U	0.01	mg/l Mg	Plastic		180 days
Manganese (dissolved)	CE128	ICP-MS	U	0.4	µg/l Mn	Plastic		180 days
Mercury (dissolved)	CE128	ICP-MS	U	0.008	µg/l Hg	Plastic		180 days
Molybdenum (dissolved)	CE128	ICP-MS	U	0.3	µg/l Mo	Plastic		180 days
Nickel (dissolved)	CE128	ICP-MS	U	0.5	µg/l Ni	Plastic		180 days
Phosphorus (dissolved)	CE128	ICP-MS	U	0.02	µg/l P	Plastic		180 days
Potassium (dissolved)	CE128	ICP-MS	U	0.03	mg/l K	Plastic		180 days
Selenium (dissolved)	CE128	ICP-MS	U	0.07	µg/l Se	Plastic		180 days
Silver (dissolved)	CE128	ICP-MS		0.2	µg/l Ag	Plastic		180 days
Sodium (dissolved)	CE128	ICP-MS	U	0.6	mg/l Na	Plastic		180 days
Strontium (dissolved)	CE128	ICP-MS	U	0.4	µg/l Sr	Plastic		180 days
Thallium (dissolved)	CE128	ICP-MS		16	µg/l Tl	Plastic		180 days
Tin (dissolved)	CE128	ICP-MS	U	0.5	µg/l Sn	Plastic		180 days
Titanium (dissolved)	CE128	ICP-MS		2	µg/l Ti	Plastic		180 days
Vanadium (dissolved)	CE128	ICP-MS	U	0.3	µg/l V	Plastic		180 days
Zinc (dissolved)	CE128	ICP-MS	U	1	µg/l Zn	Plastic		180 days
Hardness (by calculation)	CE128	ICP-MS		1	mg/l CaCO <sub>3</sub>	Plastic		180 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Inorganics</b>								
pH	CE213	Based on BS 1377, pH Meter	U	0.1	units	Plastic,Glass		21 days
Electrical conductivity	CE214	Conductivity Meter	U	10	µS/cm	Plastic,Glass		28 days
Ammonia	CE012	Colorimetry	U	10	µg/l N	Plastic,Glass		28 days
Ammoniacal Nitrogen	CE012	Colorimetry	U	10	µg/l NH <sub>4</sub>	Plastic,Glass		28 days
Bromate	CE219	Ion Chromatography		0.7	mg/l BrO <sub>3</sub>	Plastic,Glass		28 days
Bromide	CE049	Ion Chromatography	U	0.4	mg/l Br	Plastic,Glass		28 days
Chloride	CE049	Ion Chromatography	U	0.5	mg/l Cl	Plastic,Glass		28 days
Fluoride	CE049	Ion Chromatography	U	0.1	mg/l F	Plastic,Glass		28 days
Nitrate	CE049	Ion Chromatography	U	0.3	mg/l NO <sub>3</sub>	Plastic,Glass		28 days
Nitrite	CE049	Ion Chromatography	U	0.2	mg/l NO <sub>2</sub>	Plastic,Glass		28 days
Total Oxidised Nitrogen (as N)	CE049	Sum of Nitrate and Nitrite		0.3	mg/l N	Plastic,Glass		28 days
Phosphate	CE049	Ion Chromatography	U	0.3	mg/l PO <sub>4</sub>	Plastic,Glass		28 days
Sulphate	CE049	Ion Chromatography	U	1.7	mg/l SO <sub>4</sub>	Plastic,Glass		28 days
Sulphur (free)	CE034	Solvent extraction, HPLC		5	mg/l S	Plastic,Glass		28 days
Sulphur (dissolved)	CE128	ICP-MS	U	0.2	mg/l S	Plastic,Glass		28 days
Sulphide	CE249	Acid distillation, Titration		100	µg/l S <sub>2</sub> -	Plastic,Glass		7 days
Cyanide (free)	CE147	Continuous Flow Colorimetry		5	µg/l CN	Plastic,Glass		14 days
Cyanide (complex)	CE147	Calculation: CN (total) - CN (free)		5	µg/l CN	Plastic,Glass		14 days
Cyanide (total)	CE147	Continuous Flow Colorimetry		5	µg/l CN	Plastic,Glass		14 days
Thiocyanate	CE014	Colorimetry		200	µg/l SCN	Plastic,Glass		14 days
Phenols (total)	CE148	Continuous Flow Colorimetry		10	µg/l PhOH	Plastic,Glass		28 days
Alkalinity (settled)	CE035	Titrimetry	U	2	mg/l CaCO <sub>3</sub>	Plastic,Glass		28 days
Total dissolved solids	CE039	TDS meter		10	mg/l TDS	Plastic,Glass		28 days
Chemical Oxygen Demand (filtered)	CE037	Colorimetry	U	10	mg/l O <sub>2</sub>	Plastic,Glass		28 days
Dissolved Organic Carbon	CE071	Filtration, TOC analyser		5	mg/l C	Plastic,Glass		28 days
Oil & Grease	CE030	Solvent extraction, Gravimetry		1	mg/l	Glass		28 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>PAHs</b>								
Naphthalene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Acenaphthylene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Acenaphthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Fluorene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Phenanthrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(a)anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Chrysene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(b)fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(k)fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(a)pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Indeno(123cd)pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Dibenz(ah)anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(ghi)perylene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
PAH (total of USEPA 16)	CE051	Solvent extraction, GC-MS		1.6	µg/l	Glass		*14 days
Coronene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
PAH (total of 17)	CE051	Solvent extraction, GC-MS		1.7	µg/l	Glass		*14 days



# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>PAHs (low level)</b>								
Naphthalene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Acenaphthylene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Acenaphthene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Fluorene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Phenanthrene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Anthracene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Fluoranthene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Pyrene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Benzo(a)anthracene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Chrysene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Benzo(b)fluoranthene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Benzo(k)fluoranthene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Benzo(a)pyrene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Indeno(123cd)pyrene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Dibenz(ah)anthracene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
Benzo(ghi)perylene	CE196	Solvent extraction, GC-MS (low level)		0.01	µg/l	Glass		*14 days
PAH (total of USEPA 16)	CE196	Solvent extraction, GC-MS (low level)		0.16	µg/l	Glass		*14 days
<b>BTEX &amp; MTBE</b>								
MTBE	CE057	Headspace GC-FID	U	2	µg/l	VOC jar	Fill to brim, no headspace	14 days
Benzene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
Toluene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
Ethylbenzene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
m & p-Xylene	CE057	Headspace GC-FID	U	2	µg/l	VOC jar	Fill to brim, no headspace	14 days
o-Xylene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
BTEX (total)	CE057	Headspace GC-FID		6	µg/l	VOC jar	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>TPH Banded</b>								
VPH (>C5-C10)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH (>C5-C7)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH (>C7-C8)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH (>C8-C10)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
EPH (>C10-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C44)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C16)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C16-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C20)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C20-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C21)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C21-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C25)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C25-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C28)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C28-C40)	CE052	Solvent extraction, GC-FID		10	µg/l	Glass		*14 days
EPH (>C10-C12)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C12-C16)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C16-C21)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C16-C35)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C21-C35)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C35-C40)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days
EPH (>C35-C44)	CE052	Solvent extraction, GC-FID		1	µg/l	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>TPH Aliphatic/Aromatic</b>								
VPH Aliphatic (>C5-C6)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH Aliphatic (>C6-C8)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH Aliphatic (>C8-C10)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC5-EC7)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC7-EC8)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
VPH Aromatic (>EC8-EC10)	CE175	Headspace GC-FID		1	µg/l	VOC jar	Fill to brim, no headspace	14 days
EPH Aliphatic (>C10-C12)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aliphatic (>C12-C16)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aliphatic (>C16-C21)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aliphatic (>C16-C35)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aliphatic (>C21-C35)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aliphatic (>C35-C44)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aromatic (>EC10-EC12)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aromatic (>EC12-EC16)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aromatic (>EC16-EC21)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aromatic (>EC21-EC35)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days
EPH Aromatic (>EC35-EC44)	CE251	Solvent extraction, GCxGC-FID		1	µg/l	Glass		*14 days

# TECHNICAL DETAILS SUMMARY PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Volatile Organic Compounds</b>								
MTBE	CE057	Headspace GC-FID	U	2	µg/l	VOC jar	Fill to brim, no headspace	14 days
Benzene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
Toluene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
Ethylbenzene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
m & p-Xylene	CE057	Headspace GC-FID	U	2	µg/l	VOC jar	Fill to brim, no headspace	14 days
o-Xylene	CE057	Headspace GC-FID	U	1	µg/l	VOC jar	Fill to brim, no headspace	14 days
Dichlorodifluoromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Chloromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Vinyl chloride	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Bromomethane	CE066	Headspace GC-MS		3	µg/l	Vial	Fill to brim, no headspace	14 days
Chloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Trichlorofluoromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1-Dichloroethene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Trans-1,2-Dichloroethene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1-Dichloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
2,2-Dichloropropane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Cis-1,2-Dichloroethene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Bromochloromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Chloroform	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1,1-Trichloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Carbon tetrachloride	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1-Dichloro-1-propene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2-Dichloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Trichloroethene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2-Dichloropropane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Dibromomethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Bromodichloromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
cis-1,3-Dichloro-1-propene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
trans-1,3-Dichloro-1-propene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1,2-Trichloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Volatile Organic Compounds (cont)</b>								
Tetrachloroethene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,3-Dichloropropane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Dibromochloromethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2-Dibromoethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Chlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1,1,2-Tetrachloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Styrene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Tribromomethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Isopropylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Bromobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,1,1,2-Tetrachloroethane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2,3-Trichloropropane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Propylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
2-Chlorotoluene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
4-Chlorotoluene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,3,5-Trimethylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
tert-Butylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2,4-Trimethylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
sec-Butylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,3-Dichlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
4-Isopropyltoluene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,4-Dichlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2-Dichlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Butylbenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2-Dibromo-3-chloropropane	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2,4-Trichlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
Hexachloro-1,3-butadiene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
1,2,3-Trichlorobenzene	CE066	Headspace GC-MS		1	µg/l	Vial	Fill to brim, no headspace	14 days
VOC Tentatively Identified Compounds	CE066	Headspace GC-MS		10	µg/l	Vial	Fill to brim, no headspace	14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Semi-volatile Organic Compounds</b>								
Naphthalene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Acenaphthylene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Acenaphthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Fluorene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Phenanthrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(a)anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Chrysene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(b)fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(k)fluoranthene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(a)pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Indeno(123cd)pyrene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Dibenz(ah)anthracene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
Benzo(ghi)perylene	CE051	Solvent extraction, GC-MS		0.1	µg/l	Glass		*14 days
N-Nitrosodimethylamine	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Phenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Bis(2-chloroethyl)ether	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Chlorophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
1,3-Dichlorobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
1,4-Dichlorobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Methylphenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
1,2-Dichlorobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Bis(2-chloroisopropyl)ether	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
3&4-Methylphenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
N-Nitrosodi-n-propylamine	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Hexachloroethane	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Nitrobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Isophorone	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,4-Dimethylphenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Nitrophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Bis(2-chloroethoxy)methane	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Semi-volatile Organic Compounds (cont)</b>								
2,4-Dichlorophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
1,2,4-Trichlorobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Chloroaniline	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Hexachlorobutadiene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Chloro-3-methylphenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Methylnaphthalene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
1-Methylnaphthalene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Hexachlorocyclopentadiene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,4,6-Trichlorophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,4,5-Trichlorophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Chloronaphthalene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Nitroaniline	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Dimethyl phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,6-Dinitrotoluene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
3-Nitroaniline	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,4-Dinitrophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Nitrophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2,4-Dinitrotoluene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Dibenzofuran	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Diethyl phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Chlorophenylphenyl ether	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Nitroaniline	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
2-Methyl-4,6-dinitrophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Azobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
4-Bromophenylphenyl ether	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Hexachlorobenzene	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Pentachlorophenol	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Carbazole	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Di-n-butyl phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Butylbenzyl phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Bis(2-ethylhexyl)phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
Di-n-octyl phthalate	CE065	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
SVOC Tentatively Identified Compounds	CE065	Solvent extraction, GC-MS		1	µg/l	Glass		14 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Phenols (speciated)</b>								
Dimethylphenols	CE065	Solvent extraction, GCMS		0.1	µg/l	Glass		28 days
Methylphenols	CE065	Solvent extraction, GCMS		0.1	µg/l	Glass		28 days
Naphthols	CE065	Solvent extraction, GCMS		0.1	µg/l	Glass		28 days
Phenol	CE065	Solvent extraction, GCMS		0.1	µg/l	Glass		28 days
Trimethylphenol	CE065	Solvent extraction, GCMS		0.1	µg/l	Glass		28 days
<b>PCB (ICES 7)</b>								
PCB Congener 28	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 52	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 101	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 118	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 138	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 153	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 180	CE070	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB (total of ICES 7)	CE070	Solvent extraction, GC-MS		0.7	µg/l	Glass		14 days
<b>PCB (WHO 12)</b>								
PCB Congener 77	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 81	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 105	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 114	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 118	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 123	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 126	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 156	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 157	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 167	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 169	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB Congener 189	CE187	Solvent extraction, GC-MS		0.1	µg/l	Glass		14 days
PCB (total of WHO 12)	CE187	Solvent extraction, GC-MS		1.2	µg/l	Glass		14 days



# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organochlorine pesticides</b>								
2,4'-DDD (O,P'-DDD)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4,4'-DDD (P,P'-DDD)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,4'-DDE (O,P'-DDE)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4,4'-DDE (P,P'-DDE)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,4'-DDT (O,P'-DDT)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4,4'-DDT (P,P'-DDT)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4,4'-TDE (P,P'-TDE)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,6-Dichlorobenzonitrile	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4,4'-Dichlorobenzophenone	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Aldrin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Alpha-HCH	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Benfluralin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Beta-HCH	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Biphenyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chlorfenson	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chloroneb	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chlorothalonil	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
cis-Chlordane	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
cis-Nonachlor	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Delta-HCH	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dichlofluamid	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dicloran	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dicofol	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dieldrin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Diphenylamine	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endosulphan A	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endosulphan B	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endosulphan ether	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endosulphan sulphate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endrin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endrin aldehyde	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Endrin ketone	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organochlorine pesticides (cont)</b>								
Ethalfuralin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Fenson	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Gamma-HCH (Lindane)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
HCB	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Heptachlor	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Heptachlor epoxide	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Isodrin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Isopropalin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Isopropalin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Methoxychlor	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Methoxychlor olefin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Mirex	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Nitralin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Nitrofen	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Oxyfluorfen	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pendimethalin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachloroaniline	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachloroanisole	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachlorobenzene	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachlorobenzonitrile	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachloronitrobenzene (Quintozene)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachloroethioanisole	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Prodiamine	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Profluralin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Tetrachloronitrobenzene (Tecnazene)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Tetradifon	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
THPI (Tetrahydrophthalimide)	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Tolyfluand	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
trans-Chordane	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
trans-Nonachlor	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Trifluralin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organophosphate pesticides</b>								
Acephate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Azinphos ethyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Azinphos methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Bromophos ethyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chlorpyrifos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chlorpyrifos methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Coumaphos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Demeton-S-methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Diazinon	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dichlorvos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dimethoate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Disulfoton	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
EPN	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Ethion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Ethoprophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Famphur	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Fenchlorphos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Fenitrothion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Fensulfothion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Isazophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Malathion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Merphos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Methamidophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Methidathion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Methomyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Monocrotophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Naled	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Omethoate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Parathion	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Parathion methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Phorate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organophosphate pesticides (cont)</b>								
Phosalone	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Phosmet	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pirimiphos ethyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pirimiphos methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Profenofos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Prothiophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pyraclufos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pyrazophos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pyridaphention	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Quinalphos	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Sulfotep	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Thiofanox	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Thionazin	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Tolclofos-methyl	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Trichlorfon	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Trichlorfon	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Triethyl thiophosphate	CE065	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY PREPARED LEACHATES



**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

Holding times for prepared leachates are based on those for soil.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Acid herbicides</b>								
2,4-D	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,4,5-T	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,4-DB	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Acifluorfen	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Bentazon	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Bromoxynil	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Chloramben	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dalapon	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dicamba	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
3,5-Dichlorobenzoic acid (DBA)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dichlorprop (2,4-DP)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Dinoseb (DNBP)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,4,5-TP	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Fluroxypyr	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Imazapyr	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Ioxynil	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
MCPA	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
MCPP	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Mecoprop (MCP)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Pentachlorophenol	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Picloram	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
2,3,6-TBA	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
4-Chlorophenoxyacetic acid (4-CPA)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Phenoxyacetic acid	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Phenoxybutyric acid	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Phenoxypropionic acid	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Propanil (DCPA)	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
DCPA diacid	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## PREPARED LEACHATES

Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organonitrogen pesticides</b>								
Ametryn	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Atraton	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Atrazine	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Prometon	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Prometryn	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Propazine	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Secbumbeton	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Simazine	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Simetryn	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Terbutylazine	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
Terbutryn	\$	Solvent extraction, GC-MS		0.01	µg/l	Glass		7 days
<b>Miscellaneous</b>								
Glyphosate & AMPA	\$	LC-MS	U	0.2	ug/l	Glass / Amber Glass		14* refrigerated
Absorbable Organic Halides (AOX)	\$	MSSL Method 3023 based upon BS EN ISO 9562	U	20	µg/l	Amber Glass		7 days
Asbestos in Water (Quantitative)	\$	HSG 248	U	3 asbestos fibres in 150 SEM screen areas		Plastic		-
Biphenyl	\$	Details on request		0.002	mg/l	Amber Glass		-
Carbon Disulphide	\$	Details on request		5	µg/l	Glass Vial		14 days
Chlorothalonil & Dichlofluanid	\$	GC-MS		0.3	ug/l	Amber Glass		-
Cypermethrin	\$	GC-MS QQQ		0.1	µg/l	Amber Glass		*14 days
Dioxins & Furans, Dioxin like PCBs	\$	USEPA 1613 method using solvent extraction fol	U	Various		Glass		7 days
Diuron	\$	LC-MS MS		50	ng/l	Amber Glass		7 days
Irgarol	\$	LC-MS MS		0.1	ug/l	Amber Glass		-
Nonylphenol ethoxylates, 4-Nonylphenol	\$	GC-MS QQQ		0.1	µg/l	Amber Glass		7 days
Perfluoroalkyl Surfactants (PFOS)	\$	LC-MS		0.1	µg/l	Glass		*14 days
Perfluoroalkyl Surfactants (PFOA)	\$	LC-MS		0.1	µg/l	Glass		*14 days
Short chained chlorinated paraffins	\$	GC-MS QQQ		0.1	µg/l	Glass		30 days
Total Nitrogen	\$	EPA-600/4-79-020		0.1	mg/l	Plastic, Glass		-
Volatile Fatty Acids	\$	GC-FID		10	mg/l	Glass		-
<b>Dissolved gases</b>								
Methane	\$	Headspace extraction, GC-FID		5	ug/l	Amber Glass		28 days
Ethane	\$	Headspace extraction, GC-FID		10	ug/l	Amber Glass		28 days
Ethene	\$	Headspace extraction, GC-FID		10	ug/l	Amber Glass		28 days

# TECHNICAL DETAILS SUMMARY PREPARED LEACHATES



Holding times for prepared leachates are based on those for soil.

**Key:** U = UKAS accredited  
\$ = Subcontracted

\*days for extraction; 40 days after extraction for analysis.

PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Organotins</b>								
Organotins (Dibutyltin)	\$	Extraction, GC-MS		20	µg/l	Glass		14 days
Organotins (Monobutyltin)	\$	Extraction, GC-MS		20	ng/l	Glass		14 days
Organotins (Tetrabutyltin)	\$	Extraction, GC-MS		20	ng/l	Glass		14 days
Organotins (Tributyltin)	\$	Extraction, GC-MS		20	ng/l	Glass		14 days
Organotins (Triphenyltin)	\$	Extraction, GC-MS		50	µg/l	Glass		14 days
<b>Microbiology</b>								
Microbiology (natural)	\$	See below	U	1	colonies/ml	Sterile Water Bottle		1 day
Microbiology (chlorinated)	\$	See below	U	1	colonies/ml	Sterile Water Bottle	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 day
Legionella	\$	Based on BS 6068-4.12:1998; ISO 11731:1998	U	100	colonies/l	Sterile Water Bottle	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , room temp	1 day

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Metals</b>											
Aluminium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	4	µg/l Al	Plastic		4 days
Antimony (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.1	µg/l Sb	Plastic		20 days
Arsenic (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.06	µg/l As	Plastic		28 days
Barium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.6	µg/l Ba	Plastic		28 days
Beryllium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.06	µg/l Be	Plastic		5 days
Boron (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	8	µg/l B	Plastic		4 days
Cadmium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.07	µg/l Cd	Plastic		13 days
Calcium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.04	mg/l Ca	Plastic		28 days
Chromium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.2	µg/l Cr	Plastic		7 days
Chromium (hexavalent)	CE050	Colorimetry	U	U	U	U	10	µg/l CrVI	Plastic		4 days
Chromium (hexavalent)	CE050	Colorimetry	U	U	U		10	µg/l CrVI	Plastic	NH4SO4/OH	28 days
Chromium (III)	CE207	Calculation: Cr (total) - Cr (VI)					10	µg/l CrIII	-	-	-
Cobalt (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.2	µg/l Co	Plastic		7 days
Copper (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.4	µg/l Cu	Plastic		5 days
Iron (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	3	µg/l Fe	Plastic		3 days
Lead (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.2	µg/l Pb	Plastic		12 days
Magnesium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.01	mg/l Mg	Plastic		20 days
Manganese (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.4	µg/l Mn	Plastic		5 days
Mercury (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.008	µg/l Hg	Plastic		3 days
Molybdenum (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.3	µg/l Mo	Plastic		8 days
Nickel (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.5	µg/l Ni	Plastic		5 days
Phosphorus (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.02	µg/l P	Plastic		9 days
Potassium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.03	mg/l K	Plastic		21 days
Selenium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.07	µg/l Se	Plastic		28 days
Silver (dissolved)	CE128	Filtration, ICP-MS					0.2	µg/l Ag	Plastic		20 days
Sodium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.6	mg/l Na	Plastic		10 days
Strontium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.4	µg/l Sr	Plastic		28 days
Thallium (dissolved)	CE128	Filtration, ICP-MS					16	µg/l Tl	Plastic		7 days
Tin (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.5	µg/l Sn	Plastic		5 days
Titanium (dissolved)	CE128	Filtration, ICP-MS					2	µg/l Ti	Plastic		17 days
Vanadium (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	0.3	µg/l V	Plastic		12 days
Zinc (dissolved)	CE128	Filtration, ICP-MS	U	U	U	U	1	µg/l Zn	Plastic		3 days
Hardness (by calculation)	CE128	Filtration, ICP-MS					1	mg/l CaCO <sub>3</sub>	Plastic		20 days



# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

§ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Metals</b>											
Aluminium (total)	CE218	Acid digestion, ICP-MS					4	µg/l Al	Plastic	pH <2 HNO <sub>3</sub>	28 days
Antimony (total)	CE218	Acid digestion, ICP-MS					0.1	µg/l Sb	Plastic	pH <2 HNO <sub>3</sub>	28 days
Arsenic (total)	CE218	Acid digestion, ICP-MS					0.06	µg/l As	Plastic	pH <2 HNO <sub>3</sub>	28 days
Barium (total)	CE218	Acid digestion, ICP-MS					0.6	µg/l Ba	Plastic	pH <2 HNO <sub>3</sub>	28 days
Beryllium (total)	CE218	Acid digestion, ICP-MS					0.06	µg/l Be	Plastic	pH <2 HNO <sub>3</sub>	28 days
Boron (total)	CE218	Acid digestion, ICP-MS					6	µg/l B	Plastic	pH <2 HNO <sub>3</sub>	28 days
Cadmium (total)	CE218	Acid digestion, ICP-MS					0.07	µg/l Cd	Plastic	pH <2 HNO <sub>3</sub>	28 days
Calcium (total)	CE218	Acid digestion, ICP-MS					0.04	mg/l Ca	Plastic	pH <2 HNO <sub>3</sub>	28 days
Chromium (total)	CE218	Acid digestion, ICP-MS					0.2	µg/l Cr	Plastic	pH <2 HNO <sub>3</sub>	28 days
Cobalt (total)	CE218	Acid digestion, ICP-MS					0.2	µg/l Co	Plastic	pH <2 HNO <sub>3</sub>	28 days
Copper (total)	CE218	Acid digestion, ICP-MS					0.4	µg/l Cu	Plastic	pH <2 HNO <sub>3</sub>	28 days
Iron (total)	CE218	Acid digestion, ICP-MS					3	µg/l Fe	Plastic	pH <2 HNO <sub>3</sub>	28 days
Lead (total)	CE218	Acid digestion, ICP-MS					0.2	µg/l Pb	Plastic	pH <2 HNO <sub>3</sub>	28 days
Magnesium (total)	CE218	Acid digestion, ICP-MS					0.01	mg/l Mg	Plastic	pH <2 HNO <sub>3</sub>	28 days
Manganese (total)	CE218	Acid digestion, ICP-MS					0.4	µg/l Mn	Plastic	pH <2 HNO <sub>3</sub>	28 days
Mercury (total)	CE218	Acid digestion, ICP-MS					0.008	µg/l Hg	Plastic	pH <2 HNO <sub>3</sub>	28 days
Molybdenum (total)	CE218	Acid digestion, ICP-MS					0.3	µg/l Mo	Plastic	pH <2 HNO <sub>3</sub>	28 days
Nickel (total)	CE218	Acid digestion, ICP-MS					0.5	µg/l Ni	Plastic	pH <2 HNO <sub>3</sub>	28 days
Phosphorus (total)	CE218	Acid digestion, ICP-MS					0.02	mg/l P	Plastic	pH <2 HNO <sub>3</sub>	28 days
Potassium (total)	CE218	Acid digestion, ICP-MS					0.03	mg/l K	Plastic	pH <2 HNO <sub>3</sub>	28 days
Selenium (total)	CE218	Acid digestion, ICP-MS					0.07	µg/l Se	Plastic	pH <2 HNO <sub>3</sub>	28 days
Sodium (total)	CE218	Acid digestion, ICP-MS					0.6	mg/l Na	Plastic	pH <2 HNO <sub>3</sub>	28 days
Strontium (total)	CE218	Acid digestion, ICP-MS					0.4	µg/l Sr	Plastic	pH <2 HNO <sub>3</sub>	28 days
Sulphur (total)	CE218	Acid digestion, ICP-MS					0.2	mg/l S	Plastic	pH <2 HNO <sub>3</sub>	28 days
Thallium (total)	CE218	Acid digestion, ICP-MS					16	µg/l Tl	Plastic	pH <2 HNO <sub>3</sub>	28 days
Tin (total)	CE218	Acid digestion, ICP-MS					0.5	µg/l Sn	Plastic	pH <2 HNO <sub>3</sub>	28 days
Titanium (total)	CE218	Acid digestion, ICP-MS					2	µg/l Ti	Plastic	pH <2 HNO <sub>3</sub>	28 days
Vanadium (total)	CE218	Acid digestion, ICP-MS					0.3	µg/l V	Plastic	pH <2 HNO <sub>3</sub>	28 days
Zinc (total)	CE218	Acid digestion, ICP-MS					1	µg/l Zn	Plastic	pH <2 HNO <sub>3</sub>	28 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

§ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Inorganics</b>											
pH	CE213	Based on BS 1377, pH Meter	U	U	U	U	0.1	units	Plastic,Glass		7 days
Electrical conductivity	CE214	Conductivity Meter	U	U	U	U	10	µS/cm	Plastic,Glass		7 days
Redox Potential	CE082	ORP meter					±0.1	mV	Plastic,Glass		7 days
Ammonia	CE012	Colorimetry	U	U	U	U	10	µg/l N	Plastic,Glass		1 day
Ammonia	CE012	Colorimetry	U	U	U	U	10	µg/l N	Plastic,Glass	0.45µm filter, pH <2 H <sub>2</sub> SO <sub>4</sub>	21 days
Ammoniacal Nitrogen	CE012	Colorimetry	U	U	U	U	10	µg/l NH <sub>4</sub>	Plastic,Glass		1 day
Ammoniacal Nitrogen	CE012	Colorimetry	U	U	U	U	10	µg/l NH <sub>4</sub>	Plastic,Glass	0.45µm filter, pH <2 H <sub>2</sub> SO <sub>4</sub>	21 days
Bromide	CE049	Ion Chromatography	U		U	U	0.4	mg/l Br	Plastic,Glass		28 days
Chloride	CE049	Ion Chromatography	U		U	U	0.5	mg/l Cl	Plastic,Glass		28 days
Fluoride	CE049	Ion Chromatography	U		U	U	0.1	mg/l F	Plastic,Glass		28 days
Nitrate	CE049	Ion Chromatography	U		U	U	0.3	mg/l NO <sub>3</sub>	Plastic,Glass		1 day
Nitrite	CE049	Ion Chromatography	U		U	U	0.2	mg/l NO <sub>2</sub>	Plastic,Glass		1 day
Total Oxidised Nitrogen (as N)	CE049	Sum of Nitrate and Nitrite					0.2	mg/l N	Plastic,Glass		1 day
Phosphate	CE049	Ion Chromatography	U	U	U	U	0.3	mg/l PO <sub>4</sub>	Plastic,Glass		2 days
Sulphate	CE049	Ion Chromatography	U	U	U	U	1.7	mg/l SO <sub>4</sub>	Plastic,Glass		28 days
Sulphur (free)	CE034	Solvent extraction, HPLC					5	mg/l S	Plastic,Glass		28 days
Sulphur (dissolved)	CE128	ICP-MS	U	U	U	U	0.2	mg/l S	Plastic,Glass		28 days
Sulphide	CE249	Acid distillation, Titration					100	µg/l S <sup>2-</sup>	Plastic,Glass	pH >12 NaOH, Zn acetate	7 days
Cyanide (free)	CE147	Continuous Flow Colorimetry					5	µg/l CN	Plastic (dark)	pH >12 NaOH	7 days
Cyanide (complex)	CE147	Calculation: CN (total) - CN (free)					5	µg/l CN	Plastic (dark)	pH >12 NaOH	7 days
Cyanide (total)	CE147	Continuous Flow Colorimetry					5	µg/l CN	Plastic (dark)	pH >12 NaOH	14 days
Thiocyanate	CE014	Colorimetry	U	U			200	µg/l SCN	Plastic (dark)	pH >12 NaOH	7 days
Phenols (total)	CE148	Continuous Flow Colorimetry					10	µg/l PhOH	Glass		21 days
Alkalinity (settled)	CE035	Titrimetry	U	U	U	U	2	mg/l CaCO <sub>3</sub>	Plastic,Glass		14 days
Suspended solids	CE038	Gravimetry	U	U	U	U	2	mg/l	Plastic,Glass		7 days
Total dissolved solids	CE039	TDS meter					10	mg/l TDS	Plastic,Glass		28 days
Total solids	CE091	Gravimetry					10	mg/l	Plastic,Glass		7 days
Biological Oxygen Demand	CE036	5 day ATU, DO Meter					1	mg/l O <sub>2</sub>	Plastic,Glass		2 days
Chemical Oxygen Demand (filtered)	CE037	Colorimetry		U	U	U	10	mg/l O <sub>2</sub>	Plastic,Glass		28 days
Chemical Oxygen Demand (filtered)	CE037	Colorimetry		U	U	U	10	mg/l O <sub>2</sub>	Plastic,Glass	0.45µm filter, pH <2 H <sub>2</sub> SO <sub>4</sub>	180 days
Chemical Oxygen Demand (settled)	CE037	Colorimetry		U	U	U	10	mg/l O <sub>2</sub>	Plastic,Glass		5 days
Chemical Oxygen Demand (total)	CE037	Colorimetry		U	U	U	10	mg/l O <sub>2</sub>	Plastic,Glass		5 days
Chemical Oxygen Demand (total)	CE037	Colorimetry		U	U	U	10	mg/l O <sub>2</sub>	Plastic,Glass	pH <2 H <sub>2</sub> SO <sub>4</sub>	180 days

# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Inorganics (cont)</b>											
Dissolved Oxygen	CE040	DO meter					1	mg/l O <sub>2</sub>	Plastic,Glass	Determine in-situ	In-situ
Dissolved Organic Carbon	CE247	Filtration, Combustion TOC analyser					5	mg/l C	Vial		7 days
Total Organic Carbon	CE247	Combustion TOC analyser					5	mg/l C	Vial		7 days
Oil & Grease	CE030	Solvent extraction, Gravimetry					1	mg/l	Glass	pH <2 H <sub>2</sub> SO <sub>4</sub>	28 days
Detergents	CE221	Colorimetry					1	mg/l MBAS	Glass	pH <2 H <sub>2</sub> SO <sub>4</sub>	2 days
Nitrogen (total)	CE234	Combustion, Nitrogen Analyser					1	mg/l	Plastic,Glass		7 days
Salinity	CE086	Calculation: Chloride x 1.0866					1	mg/l	Plastic,Glass		28 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>PAHs</b>											
Naphthalene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Acenaphthylene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Acenaphthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Fluorene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Phenanthrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(a)anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Chrysene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(b)fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(k)fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(a)pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Indeno(123cd)pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Dibenz(ah)anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(ghi)perylene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PAH (total of USEPA 16)	CE051	Solvent extraction, GC-MS					1.6	µg/l	Glass		7 days
Coronene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PAH (total of 17)	CE051	Solvent extraction, GC-MS					1.7	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>PAHs (low level)</b>											
Naphthalene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Acenaphthylene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Acenaphthene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Fluorene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Phenanthrene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Anthracene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Fluoranthene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Pyrene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Benzo(a)anthracene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Chrysene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Benzo(b)fluoranthene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Benzo(k)fluoranthene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Benzo(a)pyrene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Indeno(123cd)pyrene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Dibenz(ah)anthracene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
Benzo(ghi)perylene	CE196	Solvent extraction, GC-MS (low level)					0.01	µg/l	Glass		7 days
PAH (total of USEPA 16)	CE196	Solvent extraction, GC-MS (low level)					0.17	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>TPH Banded</b>											
VPH (>C5-C10)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH (>C5-C7)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH (>C7-C8)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH (>C8-C10)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
EPH (>C10-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C44)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C16)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C16-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C20)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C20-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C21)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C21-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C25)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C25-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C28)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C28-C40)	CE052	Solvent extraction, GC-FID					10	µg/l	Glass		7 days
EPH (>C10-C12)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C12-C16)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C16-C21)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C16-C35)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C21-C35)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C35-C40)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days
EPH (>C35-C44)	CE052	Solvent extraction, GC-FID					1	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>TPH Aliphatic/Aromatic</b>											
VPH Aliphatic (>C5-C6)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH Aliphatic (>C6-C8)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH Aliphatic (>C8-C10)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH Aromatic (>EC5-EC7)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH Aromatic (>EC7-EC8)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
VPH Aromatic (>EC8-EC10)	CE175	Headspace GC-FID					1	µg/l	Vial	Fill to brim, no headspace	7 days
EPH Aliphatic (>C10-C12)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Vial		7 days
EPH Aliphatic (>C12-C16)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Vial		7 days
EPH Aliphatic (>C16-C21)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aliphatic (>C16-C35)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aliphatic (>C21-C35)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aliphatic (>C35-C44)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aromatic (>EC10-EC12)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aromatic (>EC12-EC16)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aromatic (>EC16-EC21)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aromatic (>EC21-EC35)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days
EPH Aromatic (>EC35-EC44)	CE251	Solvent extraction, GCxGC-FID					1	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Volatile Organic Compounds</b>											
MTBE	CE057	Headspace GC-FID	U	U	U	U	2	µg/l	Vial	Fill to brim, no headspace	7 days
Benzene	CE057	Headspace GC-FID	U	U	U	U	1	µg/l	Vial	Fill to brim, no headspace	7 days
Toluene	CE057	Headspace GC-FID	U	U	U	U	1	µg/l	Vial	Fill to brim, no headspace	7 days
Ethylbenzene	CE057	Headspace GC-FID	U	U	U	U	1	µg/l	Vial	Fill to brim, no headspace	7 days
m & p-Xylene	CE057	Headspace GC-FID	U	U	U	U	2	µg/l	Vial	Fill to brim, no headspace	7 days
o-Xylene	CE057	Headspace GC-FID	U	U	U	U	1	µg/l	Vial	Fill to brim, no headspace	7 days
Dichlorodifluoromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Chloromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Vinyl chloride	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Bromomethane	CE066	Headspace GC-MS					3	µg/l	Vial	Fill to brim, no headspace	7 days
Chloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Trichlorofluoromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1-Dichloroethene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Trans-1,2-Dichloroethene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1-Dichloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
2,2-Dichloropropane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Cis-1,2-Dichloroethene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Bromochloromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Chloroform	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1,1-Trichloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Carbon tetrachloride	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1-Dichloro-1-propene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2-Dichloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Trichloroethene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2-Dichloropropane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Dibromomethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Bromodichloromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
cis-1,3-Dichloro-1-propene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
trans-1,3-Dichloro-1-propene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1,2-Trichloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days



# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Volatile Organic Compounds (cont)</b>											
Tetrachloroethene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,3-Dichloropropane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Dibromochloromethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2-Dibromoethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Chlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1,1,2-Tetrachloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Styrene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Tribromomethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Isopropylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Bromobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,1,2,2-Tetrachloroethane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2,3-Trichloropropane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Propylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
2-Chlorotoluene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
4-Chlorotoluene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,3,5-Trimethylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
tert-Butylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2,4-Trimethylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
sec-Butylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,3-Dichlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
4-Isopropyltoluene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,4-Dichlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2-Dichlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Butylbenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2-Dibromo-3-chloropropane	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2,4-Trichlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
Hexachloro-1,3-butadiene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
1,2,3-Trichlorobenzene	CE066	Headspace GC-MS					1	µg/l	Vial	Fill to brim, no headspace	7 days
VOC Tentatively Identified Compounds	CE066	Headspace GC-MS					10	µg/l	Vial	Fill to brim, no headspace	7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Semi-volatile Organic Compounds</b>											
Naphthalene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Acenaphthylene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Acenaphthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Fluorene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Phenanthrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(a)anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Chrysene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(b)fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(k)fluoranthene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(a)pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Indeno(123cd)pyrene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Dibenz(ah)anthracene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Benzo(ghi)perylene	CE051	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
N-Nitrosodimethylamine	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Phenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Bis(2-chloroethyl)ether	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Chlorophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
1,3-Dichlorobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
1,4-Dichlorobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Methylphenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
1,2-Dichlorobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Bis(2-chloroisopropyl)ether	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
3&4-Methylphenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
N-Nitrosodi-n-propylamine	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Hexachloroethane	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Nitrobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Isophorone	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,4-Dimethylphenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Nitrophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Bis(2-chloroethoxy)methane	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Semi-volatile Organic Compounds (cont)</b>											
2,4-Dichlorophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
1,2,4-Trichlorobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Chloroaniline	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Hexachlorobutadiene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Chloro-3-methylphenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Methylnaphthalene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
1-Methylnaphthalene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Hexachlorocyclopentadiene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,4,6-Trichlorophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,4,5-Trichlorophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Chloronaphthalene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Nitroaniline	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Dimethyl phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,6-Dinitrotoluene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
3-Nitroaniline	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,4-Dinitrophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Nitrophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2,4-Dinitrotoluene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Dibenzofuran	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Diethyl phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Chlorophenylphenyl ether	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Nitroaniline	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
2-Methyl-4,6-dinitrophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Azobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
4-Bromophenylphenyl ether	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Hexachlorobenzene	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Pentachlorophenol	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Carbazole	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Di-n-butyl phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Butylbenzyl phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Bis(2-ethylhexyl)phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
Di-n-octyl phthalate	CE065	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
SVOC Tentatively Identified Compounds	CE065	Solvent extraction, GC-MS					1	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Phenols (speciated)</b>											
Dimethylphenols	CE065	Solvent extraction, GCMS					0.1	µg/l	Glass		21 days
Methylphenols	CE065	Solvent extraction, GCMS					0.1	µg/l	Glass		21 days
Naphthols	CE065	Solvent extraction, GCMS					0.1	µg/l	Glass		21 days
Phenol	CE065	Solvent extraction, GCMS					0.1	µg/l	Glass		21 days
Trimethylphenol	CE065	Solvent extraction, GCMS					0.1	µg/l	Glass		21 days
<b>PCB (ICES 7)</b>											
PCB Congener 28	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 52	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 101	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 118	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 138	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 153	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 180	CE070	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB (total of ICES 7)	CE070	Solvent extraction, GC-MS					0.7	µg/l	Glass		7 days
<b>PCB (WHO 12)</b>											
PCB Congener 77	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 81	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 105	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 114	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 118	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 123	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 126	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 156	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 157	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 167	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 169	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB Congener 189	CE187	Solvent extraction, GC-MS					0.1	µg/l	Glass		7 days
PCB (total of WHO 12)	CE187	Solvent extraction, GC-MS					1.2	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Organochlorine pesticides</b>											
2,4'-DDD (O,P'-DDD)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4,4'-DDD (P,P'-DDD)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,4'-DDE (O,P'-DDE)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4,4'-DDE (P,P'-DDE)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,4'-DDT (O,P'-DDT)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4,4'-DDT (P,P'-DDT)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4,4'-TDE (P,P'-TDE)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,6-Dichlorobenzonitrile	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4,4'-Dichlorobenzophenone	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Aldrin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Alpha-HCH	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Benfluralin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Beta-HCH	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Biphenyl	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chlorfenson	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chloroneb	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chlorothalonil	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
cis-Chlordane	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
cis-Nonachlor	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Delta-HCH	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dichlofluamid	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dicloran	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dicofol	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dieldrin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Diphenylamine	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endosulphan A	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endosulphan B	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endosulphan ether	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endosulphan sulphate	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endrin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endrin aldehyde	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Endrin ketone	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Organochlorine pesticides (cont)</b>											
Ethalfuralin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Fenson	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Gamma-HCH (Lindane)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
HCB	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Heptachlor	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Heptachlor epoxide	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Isodrin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Isopropalin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Isopropalin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Methoxychlor	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Methoxychlor olefin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Mirex	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Nitralin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Nitrofen	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Oxyfluorfen	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pendimethalin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachloroaniline	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachloroanisole	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachlorobenzene	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachlorobenzonitrile	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachloronitrobenzene (Quintozene)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachloroethoxyanisole	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Prodiamine	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Profluralin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Tetrachloronitrobenzene (Tecnazene)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Tetradifon	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
THPI (Tetrahydrophthalimide)	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Tolyfluanid	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
trans-Chordane	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
trans-Nonachlor	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Trifluralin	CE215	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

§ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Organophosphate pesticides</b>											
Acephate	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Azinphos ethyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Azinphos methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Bromophos ethyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chlorpyrifos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chlorpyrifos methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Coumaphos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Demeton-S-methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Diazinon	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dichlorvos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dimethoate	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Disulfoton	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
EPN	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Ethion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Ethoprophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Famphur	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Fenchlorphos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Fenitrothion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Fensulfothion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Isazophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Malathion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Merphos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Methamidophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Methidathion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Methomyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Monocrotophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Naled	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Omethoate	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Parathion	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Parathion methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Phorate	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Organophosphate pesticides (cont)</b>											
Phosalone	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Phosmet	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pirimiphos ethyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pirimiphos methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Profenofos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Prothiophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pyraclufos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pyrazophos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pyridaphention	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Quinalphos	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Sulfotep	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Thiofanox	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Thionazin	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Tolclofos-methyl	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Trichlorfon	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Trichlorfon	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Triethyl thiophosphate	CE216	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days



# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Acid herbicides</b>											
2,4-D	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,4,5-T	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,4-DB	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Acifluorfen	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Bentazon	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Bromoxynil	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Chloramben	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dalapon	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dicamba	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
3,5-Dichlorobenzoic acid (DBA)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dichlorprop (2,4-DP)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Dinoseb (DNBP)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,4,5-TP	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Fluroxypyr	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Imazapyr	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Ioxynil	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
MCPA	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
MCPP	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Mecoprop (MCP)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Pentachlorophenol	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Picloram	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
2,3,6-TBA	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
4-Chlorophenoxyacetic acid (4-CPA)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Phenoxyacetic acid	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Phenoxybutyric acid	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Phenoxypropionic acid	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Propanil (DCPA)	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
DCPA diacid	CE217	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Organonitrogen pesticides</b>											
Ametryn	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Atraton	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Atrazine	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Prometon	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Prometryn	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Propazine	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Secbumbeton	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Simazine	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Simetryn	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Terbutylazine	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days
Terbutryn	CE210	Solvent extraction, GC-MS					0.01	µg/l	Glass		7 days

# TECHNICAL DETAILS SUMMARY WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
<b>Subcontracted testing</b>											
Glyphosate & AMPA	\$	LC-MS	U	U	U	U	0.2	ug/l	Glass / Amber Glass		14* refrigerated
Absorbable Organic Halides (AOX)	\$	MSSL Method 3023 based upon BS EN ISO 9562	U	U	U	U	20	µg/l	Amber Glass		7 days
Asbestos in Water (Quantitative)	\$	HSG 248	U	U	U	U	3 asbestos fibres in 150 SEM screen areas	0.002	mg/l	Plastic	-
Biphenyl	\$	Details on request							Amber Glass		-
Carbon Disulphide	\$	Details on request					5	µg/l	Glass Vial		14 days
Chlorothalonil & Dichlofluanid	\$	GC-MS					0.3	ug/l	Amber Glass		-
Cypermethrin	\$	GC-MS QQQ					0.1	µg/l	Amber Glass		*14 days
Dioxins & Furans, Dioxin like PCBs	\$	USEPA 1613 method using solvent extraction fol	U	U	U	U	Various		Glass		7 days
Diuron	\$	LC-MS MS					50	ng/l	Amber Glass		7 days
Irgarol	\$	LC-MS MS					0.1	ug/l	Amber Glass		-
Nonylphenol ethoxylates, 4-Nonylphenol	\$	GC-MS QQQ					0.1	µg/l	Amber Glass		7 days
Perfluoroalkyl Surfactants (PFOS)	\$	LC-MS					0.1	µg/l	Glass		*14 days
Perfluoroalkyl Surfactants (PFOA)	\$	LC-MS					0.1	µg/l	Glass		*14 days
Short chained chlorinated paraffins	\$	GC-MS QQQ					0.1	µg/l	Glass		30 days
Total Nitrogen	\$	EPA-600/4-79-020					0.1	mg/l	Plastic,Glass		-
Total Nitrogen (Liquid Waste)	\$	EPA-600/4-79-020 / Kjeldahl					0.01	%	Plastic,Glass		-
Nitrate & Nitrite Nitrogen (Liquid Waste)	\$	EPA-600/4-79-020 / Kjeldahl					10	mg/kg	Plastic,Glass		-
Turbidity	\$	Based on HMSO 1981; ISBN 0117519553	U	U	U	U	0.1	NTU	Plastic,Glass		-
Volatile Fatty Acids	\$	GC-FID					10	mg/l	Glass		-
<b>Dissolved gases</b>											
Methane	\$	Headspace extraction, GC-FID					5	ug/l	Amber Glass		28 days
Ethane	\$	Headspace extraction, GC-FID					10	ug/l	Amber Glass		28 days
Ethene	\$	Headspace extraction, GC-FID					10	ug/l	Amber Glass		28 days
<b>Organotins</b>											
Organotins (Dibutyltin)	\$	Extraction, GC-MS					20	µg/l	Glass		14 days
Organotins (Monobutyltin)	\$	Extraction, GC-MS					20	ng/l	Glass		14 days
Organotins (Tetrabutyltin)	\$	Extraction, GC-MS					20	ng/l	Glass		14 days
Organotins (Tributyltin)	\$	Extraction, GC-MS					20	ng/l	Glass		14 days
Organotins (Triphenyltin)	\$	Extraction, GC-MS					50	µg/l	Glass		14 days
<b>Microbiology</b>											
Legionella	\$	Based on BS 6068-4.12:1998; ISO 11731:1998					25	cfu/500ml	Plastic (dark)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , room temp	1 day
Enumeration of E.coli	\$	Details on request					1	cfu/100ml	Sterile Bottle		1 day
Enumeration of Enterococci	\$	Details on request					1	cfu/100ml	Sterile Bottle		1 day
Enumeration of total coliforms	\$	Details on request					1	cfu/100ml	Sterile Bottle		1 day

# TECHNICAL DETAILS SUMMARY

## WATERS



Further method details are available on request.

Accreditation applies to groundwaters (GW), surface waters (SW), landfill leachates (LL), effluents (Eff).

**Key:** U = UKAS accredited

\$ = Subcontracted

WATERS	METHOD	METHOD SUMMARY	STATUS				LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
			GW	SW	LL	Eff					
Enumeration of anaerobic SR Clostridia	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Enumeration of Clostridium perfringens	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Enumeration of Pseudomonas aeruginosa	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Enumeration of Salmonella	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Total colony count	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Presence/absence of Salmonella	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
Presence/absence of E.coli	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
TVC @ 22°C	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day
TVC @ 37°C	\$	Details on request				-	1	cfu/100ml	Sterile Bottle		1 day

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

ROAD CORES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Preparation</b>								
Core Sample Preparation	CE001	Preparation only	-	-	-	-	-	N/A
<b>Phenols (speciated)</b>								
Dimethylphenols	CE189	Solvent extraction, GCMS		0.1	mg/kg	Glass		N/A
Methylphenols	CE189	Solvent extraction, GCMS		0.1	mg/kg	Glass		N/A
Naphthols	CE189	Solvent extraction, GCMS		0.1	mg/kg	Glass		N/A
Phenol	CE189	Solvent extraction, GCMS		0.1	mg/kg	Glass		N/A
Trimethylphenol	CE189	Solvent extraction, GCMS		0.1	mg/kg	Glass		N/A
Phenols (total)	CE184	Extraction, Continuous Flow Colorimetry		0.5	mg/kg	Plastic,Glass		N/A
<b>PAHs</b>								
Naphthalene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Acenaphthylene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Acenaphthene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Fluorene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Phenanthrene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Anthracene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Fluoranthene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Pyrene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Benzo(a)anthracene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Chrysene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Benzo(b)fluoranthene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Benzo(k)fluoranthene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Benzo(a)pyrene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Indeno(123cd)pyrene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Dibenz(ah)anthracene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
Benzo(ghi)perylene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
PAH (total of USEPA 16)	CE151	Solvent extraction, GC-MS		16	mg/kg	Plastic,Glass		N/A
Coronene	CE151	Solvent extraction, GC-MS		1	mg/kg	Plastic,Glass		N/A
PAH (total of 17)	CE151	Solvent extraction, GC-MS		17	mg/kg	Plastic,Glass		N/A

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

FILTERS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Metals</b>								
Aluminium (total)	CE074	Acid digestion, ICP-MS		1	µg Al	Plastic,Glass		N/A
Antimony (total)	CE074	Acid digestion, ICP-MS		1	µg Sb	Plastic,Glass		N/A
Arsenic (total)	CE074	Acid digestion, ICP-MS		1	µg As	Plastic,Glass		N/A
Barium (total)	CE074	Acid digestion, ICP-MS		1	µg Ba	Plastic,Glass		N/A
Cadmium (total)	CE074	Acid digestion, ICP-MS		1	µg Cd	Plastic,Glass		N/A
Calcium (total)	CE074	Acid digestion, ICP-MS		1	µg Ca	Plastic,Glass		N/A
Chromium (total)	CE074	Acid digestion, ICP-MS		1	µg Cr	Plastic,Glass		N/A
Chromium (VI)	CE110	Extraction, Colorimetry		1	µg CrVI	Plastic,Glass		N/A
Cobalt (total)	CE074	Acid digestion, ICP-MS		1	µg Co	Plastic,Glass		N/A
Copper (total)	CE074	Acid digestion, ICP-MS		1	µg Cu	Plastic,Glass		N/A
Iron (total)	CE074	Acid digestion, ICP-MS		1	µg Fe	Plastic,Glass		N/A
Lead (total)	CE074	Acid digestion, ICP-MS		1	µg Pb	Plastic,Glass		N/A
Manganese (total)	CE074	Acid digestion, ICP-MS		1	µg Mn	Plastic,Glass		N/A
Mercury (total)	CE074	Acid digestion, ICP-MS		1	µg Hg	Plastic,Glass		N/A
Molybdenum (total)	CE074	Acid digestion, ICP-MS		1	µg Mo	Plastic,Glass		N/A
Nickel (total)	CE074	Acid digestion, ICP-MS		1	µg Ni	Plastic,Glass		N/A
Selenium (total)	CE074	Acid digestion, ICP-MS		1	µg Se	Plastic,Glass		N/A
Zinc (total)	CE074	Acid digestion, ICP-MS		1	µg Zn	Plastic,Glass		N/A
<b>Organics</b>								
Formaldehyde	CE076	Extraction, Colorimetry		5	µg	Plastic,Glass		N/A

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

FOAMS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Ozone Depleting Substances</b>								
CFCs	CE182	Headspace GC-MS		0.01	% w/w	Plastic,Glass	Minimise headspace	N/A
CFCs (total)	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
Halons (total)	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
Carbon tetrachloride	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
1,1,1-Trichloroethane	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
HCFC (total)	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
HBFC (total)	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
Methyl bromide	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
Bromochloromethane	CE182	Headspace GC-MS		1	mg/kg	Plastic,Glass	Minimise headspace	N/A
<b>Subcontracting tests</b>								
Isocyanates	\$	GCMS & LCMS		0.01	mg/kg	Amber Glass		N/A

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS

Further method details are available on request.

**Key:** \$ = Subcontracted

PAINTS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Metals (mg/kg)</b>								
Lead (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Aluminium (total)	CE080	Aqua regia digest, ICP-MS		90	mg/kg	Plastic,Glass		N/A
Antimony (total)	CE080	Aqua regia digest, ICP-MS		2	mg/kg	Plastic,Glass		N/A
Arsenic (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Barium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Beryllium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Cadmium (total)	CE080	Aqua regia digest, ICP-MS		2	mg/kg	Plastic,Glass		N/A
Calcium (total)	CE080	Aqua regia digest, ICP-MS		2850	mg/kg	Plastic,Glass		N/A
Chromium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Chromium (hexavalent)	CE146	Acid extraction, Colorimetry		10	mg/kg	Plastic,Glass		N/A
Chromium (III)	CE208	Calculation: Cr (total) - Cr (VI)		10	mg/kg	-		N/A
Cobalt (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Copper (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Iron (total)	CE080	Aqua regia digest, ICP-MS		380	mg/kg	Plastic,Glass		N/A
Magnesium (total)	CE080	Aqua regia digest, ICP-MS		100	mg/kg	Plastic,Glass		N/A
Manganese (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Mercury (total)	CE080	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Molybdenum (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Nickel (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Phosphorus (total)	CE080	Aqua regia digest, ICP-MS		100	mg/kg	Plastic,Glass		N/A
Potassium (total)	CE080	Aqua regia digest, ICP-MS		200	mg/kg	Plastic,Glass		N/A
Selenium (total)	CE080	Aqua regia digest, ICP-MS		3	mg/kg	Plastic,Glass		N/A
Sodium (total)	CE080	Aqua regia digest, ICP-MS		220	mg/kg	Plastic,Glass		N/A
Sulphur (total)	CE080	Aqua regia digest, ICP-MS		1000	mg/kg	Plastic,Glass		N/A
Thallium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Tin (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Titanium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Vanadium (total)	CE080	Aqua regia digest, ICP-MS		10	mg/kg	Plastic,Glass		N/A
Zinc (total)	CE080	Aqua regia digest, ICP-MS		50	mg/kg	Plastic,Glass		N/A



# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS

Further method details are available on request.

**Key:** \$ = Subcontracted

PAINTS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>Metals (%w/w)</b>								
Lead (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Aluminium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Antimony (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Arsenic (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Barium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Beryllium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Cadmium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Calcium (total)	CE080	Aqua regia digest, ICP-MS		0.3	% w/w	Plastic,Glass		N/A
Chromium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Chromium (hexavalent)	CE146	Acid extraction, Colorimetry		0.01	% w/w	Plastic,Glass		N/A
Chromium (III)	CE208	Calculation: Cr (total) - Cr (VI)		0.01	% w/w	-		N/A
Cobalt (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Copper (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Iron (total)	CE080	Aqua regia digest, ICP-MS		0.04	% w/w	Plastic,Glass		N/A
Magnesium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Manganese (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Mercury (total)	CE080	Aqua regia digest, ICP-MS		0.001	% w/w	Plastic,Glass		N/A
Molybdenum (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Nickel (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Phosphorus (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Potassium (total)	CE080	Aqua regia digest, ICP-MS		0.02	% w/w	Plastic,Glass		N/A
Selenium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Sodium (total)	CE080	Aqua regia digest, ICP-MS		0.03	% w/w	Plastic,Glass		N/A
Sulphur (total)	CE080	Aqua regia digest, ICP-MS		0.1	% w/w	Plastic,Glass		N/A
Thallium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Tin (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Titanium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Vanadium (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A
Zinc (total)	CE080	Aqua regia digest, ICP-MS		0.01	% w/w	Plastic,Glass		N/A

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

OILS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>PCB (ICES 7)</b>								
PCB Congener 28	CE191	Solvent extraction, GC-MS		0.16	mg/kg	Glass		N/A
PCB Congener 52	CE191	Solvent extraction, GC-MS		0.16	mg/kg	Glass		N/A
PCB Congener 101	CE191	Solvent extraction, GC-MS		0.32	mg/kg	Glass		N/A
PCB Congener 118	CE191	Solvent extraction, GC-MS		0.24	mg/kg	Glass		N/A
PCB Congener 138	CE191	Solvent extraction, GC-MS		0.24	mg/kg	Glass		N/A
PCB Congener 153	CE191	Solvent extraction, GC-MS		0.36	mg/kg	Glass		N/A
PCB Congener 180	CE191	Solvent extraction, GC-MS		0.32	mg/kg	Glass		N/A
PCB (total of ICES 7)	CE191	Solvent extraction, GC-MS		1.8	mg/kg	Glass		N/A
<b>Subcontracted testing</b>								
Perfluorooctyl sulphonate (PFOS)	\$	LC-MS		0.1	µg/kg	Glass		N/A

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

SWABS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>PCB (ICES 7)</b>								
PCB Congener 28	CE186	Solvent extraction, GC-MS		0.016	µg	Glass		N/A
PCB Congener 52	CE186	Solvent extraction, GC-MS		0.016	µg	Glass		N/A
PCB Congener 101	CE186	Solvent extraction, GC-MS		0.032	µg	Glass		N/A
PCB Congener 118	CE186	Solvent extraction, GC-MS		0.024	µg	Glass		N/A
PCB Congener 138	CE186	Solvent extraction, GC-MS		0.024	µg	Glass		N/A
PCB Congener 153	CE186	Solvent extraction, GC-MS		0.036	µg	Glass		N/A
PCB Congener 180	CE186	Solvent extraction, GC-MS		0.032	µg	Glass		N/A
PCB (total of ICES 7)	CE186	Solvent extraction, GC-MS		0.180	µg	Glass		N/A
<b>Subcontracted testing</b>								
Perfluorooctyl sulphonate (PFOS)	\$	LC-MS		0.1	µg/kg	Glass		N/A
Hexabromocyclododecane (HBCDD)	\$	Solvent extraction, GC-MS		0.1	mg/kg	Plastic,Glass		30 days
<b>PBB</b>								
BB-3	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-15	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-29	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-49	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-52	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-77	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-80	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-101	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-103	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-126	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-153	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-169	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-180	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-194	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-206	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
BB-209	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days

# TECHNICAL DETAILS SUMMARY

## MISCELLANEOUS



Further method details are available on request.

**Key:** \$ = Subcontracted

SWABS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
<b>PBDE</b>								
PBDE-17	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-28	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-47	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-66	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-71	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-85	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-99	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-100	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-128	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-138	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-153	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-154	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-175	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-183	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-203	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-206	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
PBDE-209	\$	Solvent extraction, GC-MS		10	µg/kg	Plastic,Glass		30 days
<b>PFOS &amp; PFOA</b>								
Perfluorooctyl sulphonate (PFOS)	\$	LC-MS		10	µg/kg	Plastic,Glass		N/A
Perfluorooctanoic acid (PFOA)	\$	LC-MS		10	µg/kg	Plastic,Glass		N/A
<b>Polychlorinated Naphthalenes (PCNs)</b>								
Dichloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Trichloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Tetrachloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Pentachloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Hexachloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Heptachloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Octachloranaphthalene	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days
Polychlorinated naphthalenes (total)	\$	Solvent extraction, GC-MS		10	mg/kg	Plastic,Glass		30 days

# TECHNICAL DETAILS SUMMARY

## BS3882(2015) BS8061(2013)



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

BS3882: SOILS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Soil Texture	CE118	Soil classification	-	-	-	Plastic,Glass		-
Stone Content	CE118	Sieving	-	0.1	mg/kg	Plastic,Glass		-
Loss On Ignition at 440°C	CE006	Based on BS 1377, Gravimetry	U	0.1	% w/w	Plastic,Glass		28 days
pH	CE004	Based on BS 1377, pH Meter	M	-	units	Plastic,Glass		21 days
Carbonate (by difference)	CE072	Carbon Analyser, calculation TC-TOC		0.1	% w/w	Plastic,Glass		28 days
Nitrogen (total)	CE198	Combustion, Nitrogen analyser		0.01	% w/w	Plastic,Glass		28 days
Carbon:Nitrogen ratio	CE222	Calculation: TOC/Nitrogen (total)		0.1	-	Plastic,Glass		28 days
Phosphorus (extractable)	CE089	Sodium bicarbonate extraction, ICP-MS		1	mg/l	Plastic,Glass		28 days
Potassium (extractable)	CE088	Ammonium Nitrate, ICP-MS		1	mg/l	Plastic,Glass		28 days
Magnesium (extractable)	CE088	Ammonium Nitrate, ICP-MS		1	mg/l	Plastic,Glass		28 days
Sodium (extractable)	CE088	Ammonium Nitrate, ICP-MS		0.1	%	Plastic,Glass		28 days
Electrical conductivity	CE007	Conductivity Meter	U	10	µS/cm	Plastic,Glass		28 days
Copper (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		1	mg/kg	Plastic,Glass		180 days
Nickel (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		1	mg/kg	Plastic,Glass		180 days
Zinc (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		5	mg/kg	Plastic,Glass		180 days
Visible contaminants	-	Visual inspection, gravimetry		0.1	% w/w	Plastic,Glass		-

BS8061:2013 SOILS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Soil Texture	CE118	Soil classification	-	-	-	Plastic,Glass		-
Stone Content	CE118	Sieving	-	0.1	mg/kg	Plastic,Glass		-
Copper (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		1	mg/kg	Plastic,Glass		180 days
Nickel (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		1	mg/kg	Plastic,Glass		180 days
Zinc (nitric acid extractable)	CE127	Nitric acid digest, ICP-MS		5	mg/kg	Plastic,Glass		180 days
Sodium (extractable)	CE088	Ammonium Nitrate, ICP-MS		0.1	%	Plastic,Glass		28 days
pH	CE004	Based on BS 1377, pH Meter	M	-	units	Plastic,Glass		21 days
Electrical conductivity	CE007	Conductivity Meter	U	10	µS/cm	Plastic,Glass		28 days
Loss On Ignition at 440°C	CE006	Based on BS 1377, Gravimetry	U	0.1	% w/w	Plastic,Glass		28 days

# TECHNICAL DETAILS SUMMARY TEST SUITES



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:** M = MCERTS accredited  
U = UKAS accredited

\$ = Subcontracted  
\*days for extraction; 40 days after extraction for analysis.

UKWIR: SOILS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
VPH (>C5-C10)	CE067	Headspace GC-FID		0.1	mg/kg	VOC jar	Fill to brim, no headspace	14 days
EPH (>C10-C16)	CE033	Solvent extraction, GC-FID		10	mg/kg	Glass		*14 days
EPH (>C16-C40)	CE033	Solvent extraction, GC-FID		10	mg/kg	Glass		*14 days
EPH (>C10-C20)	CE033	Solvent extraction, GC-FID	M	10	mg/kg	Glass		*14 days
EPH (>C20-C40)	CE033	Solvent extraction, GC-FID	M	10	mg/kg	Glass		*14 days
VOC (total) inc TICs	CE066	Headspace GC-MS		0.01	mg/kg	VOC jar	Fill to brim, no headspace	14 days
BTEX & MTBE (total)	CE057	Headspace GC-FID		0.06	mg/kg	VOC jar	Fill to brim, no headspace	14 days
SVOC (total) inc TICs	CE065	Solvent extraction, GC-MS		0.1	mg/kg	Glass		*14 days
Phenols (total)	CE065	Solvent extraction, GC-MS		0.1	mg/kg	Glass		*14 days
Cresols & chlorinated phenols (total)	CE065	Solvent extraction, GC-MS		0.01	mg/kg	Glass		*14 days
Ethers*	CE065	Solvent extraction, GC-MS		0.1	mg/kg	Glass		*14 days
Nitrobenzene*	CE065	Solvent extraction, GC-MS		0.1	mg/kg	Glass		*14 days
Ketones*	CE065	Solvent extraction, GC-MS		0.01	mg/kg	Glass		*14 days
Aldehydes*	CE065	Solvent extraction, GC-MS		0.01	mg/kg	Glass		*14 days
Amines*	CE065	Solvent extraction, GC-MS		0.1	mg/kg	Glass		*14 days
pH	CE004	Based on BS 1377, pH Meter	M	-	units	Plastic,Glass		21 days
Electrical conductivity	CE007	Conductivity Meter	U	10	µS/cm	Plastic,Glass		28 days
Redox potential	CE082	ORP meter		±1	% w/w	Plastic,Glass		28 days

# TECHNICAL DETAILS SUMMARY

## WAC TESTING



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

WAC: SOILS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Antimony (total)	CE127	Aqua regia digest, ICP-MS	M	0.2	mg/kg	Plastic,Glass		180 days
Arsenic (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Barium (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Cadmium (total)	CE127	Aqua regia digest, ICP-MS	M	0.2	mg/kg	Plastic,Glass		180 days
Chromium (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Copper (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Lead (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Mercury (total)	CE127	Aqua regia digest, ICP-MS	M	0.5	mg/kg	Plastic,Glass		180 days
Molybdenum (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Nickel (total)	CE127	Aqua regia digest, ICP-MS	M	1	mg/kg	Plastic,Glass		180 days
Selenium (total)	CE127	Aqua regia digest, ICP-MS	M	0.3	mg/kg	Plastic,Glass		180 days
Zinc (total)	CE127	Aqua regia digest, ICP-MS	M	5	mg/kg	Plastic,Glass		180 days
pH	CE004	Based on BS 1377, pH Meter	M	-	units	Plastic,Glass		21 days
Acid Neutralising Capacity	CE083	Aqueous extraction, Titration		0.02	mol/kg	Plastic,Glass		28 days
Total Organic Carbon	CE197	Combustion, Carbon Analyser		0.1	% w/w	Plastic,Glass		28 days
Loss On Ignition at 440°C	CE006	Based on BS 1377, Gravimetry	U	0.1	% w/w	Plastic,Glass		28 days
PAH (total of 17)	CE087	Solvent extraction, GC-MS		0.36	mg/kg	Glass		*14 days
BTEX (total)	CE057	Headspace GC-FID	U	0.06	mg/kg	VOC jar	Fill to brim, no headspace	14 days
EPH (C10-C40)	CE033	Solvent extraction, GC-FID	M	10	mg/kg	Glass		*28 days
Mineral Oil (C10-C40)	CE162	Solvent extraction, clean-up, GC-FID		10	mg/kg	Glass		*28 days
PCB (total of ICES 7)	CE137	Solvent extraction, GC-MS	M	0.045	mg/kg	Glass		*14 days

# TECHNICAL DETAILS SUMMARY

## WAC TESTING



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

WAC: SOLIDS	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Antimony (total)	CE127	Aqua regia digest, ICP-MS		0.2	mg/kg	Plastic,Glass		N/A
Arsenic (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Barium (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Cadmium (total)	CE127	Aqua regia digest, ICP-MS		0.2	mg/kg	Plastic,Glass		N/A
Chromium (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Copper (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Lead (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Mercury (total)	CE127	Aqua regia digest, ICP-MS		0.5	mg/kg	Plastic,Glass		N/A
Molybdenum (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Nickel (total)	CE127	Aqua regia digest, ICP-MS		1	mg/kg	Plastic,Glass		N/A
Selenium (total)	CE127	Aqua regia digest, ICP-MS		0.3	mg/kg	Plastic,Glass		N/A
Zinc (total)	CE127	Aqua regia digest, ICP-MS		5	mg/kg	Plastic,Glass		N/A
pH	CE004	Based on BS 1377, pH Meter		-	units	Plastic,Glass		N/A
Acid Neutralising Capacity	CE083	Titration		0.02	mol/kg	Plastic,Glass		N/A
Total Organic Carbon	CE197	Combustion, Carbon Analyser		0.1	% w/w	Plastic,Glass		N/A
Loss On Ignition at 440°C	CE006	Based on BS 1377, Gravimetry		0.1	% w/w	Plastic,Glass		N/A
PAH (total of 17)	CE087	Solvent extraction, GC-MS		0.36	mg/kg	Glass		N/A
BTEX (total)	CE057	Headspace GC-FID		0.06	mg/kg	Glass		N/A
EPH (C10-C40)	CE033	Solvent extraction, GC-FID		10	mg/kg	Glass		N/A
Mineral Oil (C10-C40)	CE162	Solvent extraction, clean-up, GC-FID		10	mg/kg	Glass		*28 days
PCB (total of ICES 7)	CE137	Solvent extraction, GC-MS		0.045	mg/kg	Glass		N/A



# TECHNICAL DETAILS SUMMARY

## WAC TESTING



Further method details are available on request.

MCERTS (soils) applies to sand, clay and loam/topsoil matrices or combinations of these.

**Key:**

M = MCERTS accredited

\$ = Subcontracted

U = UKAS accredited

\*days for extraction; 40 days after extraction for analysis.

WAC: PREPARED LEACHATES	METHOD	METHOD SUMMARY	STATUS	LOD	UNITS	CONTAINER	REQUIREMENTS	HOLDING TIME
Leachate preparation (single-stage)	CE002	BS12457-1 or BS12457-2		-	-	-	-	-
Leachate preparation (two-stage)	CE002	BS12457-3		-	-	-	-	-
Antimony (dissolved)	CE128	ICP-MS	U	0.1	µg/l Sb	Plastic		180 days
Arsenic (dissolved)	CE128	ICP-MS	U	0.06	µg/l As	Plastic		180 days
Barium (dissolved)	CE128	ICP-MS	U	0.6	µg/l Ba	Plastic		180 days
Cadmium (dissolved)	CE128	ICP-MS	U	0.07	µg/l Cd	Plastic		180 days
Chromium (dissolved)	CE128	ICP-MS	U	0.2	µg/l Cr	Plastic		180 days
Copper (dissolved)	CE128	ICP-MS	U	0.4	µg/l Cu	Plastic		180 days
Lead (dissolved)	CE128	ICP-MS	U	0.2	µg/l Pb	Plastic		180 days
Mercury (dissolved)	CE128	ICP-MS	U	0.008	µg/l Hg	Plastic		180 days
Molybdenum (dissolved)	CE128	ICP-MS	U	0.3	µg/l Mo	Plastic		180 days
Nickel (dissolved)	CE128	ICP-MS	U	0.5	µg/l Ni	Plastic		180 days
Selenium (dissolved)	CE128	ICP-MS	U	0.07	µg/l Se	Plastic		180 days
Zinc (dissolved)	CE128	ICP-MS	U	1	µg/l Zn	Plastic		180 days
pH	CE213	Based on BS 1377, pH Meter	U	-	units	Plastic,Glass		21 days
Electrical conductivity	CE214	Conductivity Meter	U	10	µS/cm	Plastic,Glass		21 days
Chloride	CE049	Ion Chromatography	U	1	mg/l	Plastic,Glass		28 days
Fluoride	CE049	Ion Chromatography	U	0.1	mg/l	Plastic,Glass		28 days
Sulphate	CE049	Ion Chromatography	U	10	mg/l	Plastic,Glass		28 days
Total dissolved solids	CE039	TDS meter		10	mg/l	Plastic,Glass		28 days
Dissolved Organic Carbon	CE247	Filtration, Combustion TOC analyser		5	mg/l	Plastic,Glass		28 days
Phenols (total)	CE148	Continuous Flow Colorimetry		10	µg/l	Plastic,Glass		28 days