## **Schedule of Accreditation**

issued by

## **United Kingdom Accreditation Service**

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



4225

Accredited to ISO/IEC 17025:2017

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

Unit 3 and Unit 6 Deeside Point
Zone 3 Deeside Industrial Park

Deeside CH5 2UA Contact: Jenny Davies Tel: +44 (0)1244 833780 Fax: +44 (0)1244 833781

E-Mail: Jenny.davies@element.com

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### Testing performed at the above address only

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Health and Hygiene	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of:     Amosite     Chrysotile     Crocidolite     Fibrous Actinolite     Fibrous Tremolite	Documented In-House Method TM065 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248
ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, <i>specifically</i> : <i>Soil</i>	Identification of:     Amosite     Chrysotile     Crocidolite     Fibrous Actinolite     Fibrous Anthophyllite     Fibrous Tremolite	Documented In-House Method PM042S and TM065 using stereo- microscopy, polarised light optical microscopy and dispersion staining based on HSG 248
ASBESTOS IN SOILS – The Identification and Quantification of Asbestos fibres in bulk samples of Soil, specifically: Soil	Identification and Quantification of Asbestos content of:     Amosite     Chrysotile     Crocidolite     Fibrous Actinolyte     Fibrous Anthophyllite     Fibrous Tremolite	Documented In-House Method PM042S and TM065 for identification using stereomicroscopy, polarised light optical microscopy and dispersion staining based on HSG 248.Documented In-House Method PM042S and TM131 for quantification of asbestos.

Assessment Manager: GL Page 1 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM and PETROLEUM PRODUCTS	Chemical Tests	
TROBUCTO	C5-C35 fingerprint (qualitative) and banding	In-house method TM001P using GC-FID
	>C5-6 >C6-8 >C8-10 >C10-12 >C12-16 >C16-21 >C21-35 >C35	
	Aliphatic/aromatic fractionation and subsequent banding:	
	Aliphatic bands: >C6-C8 >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35+  Aromatic bands (equivalent carbon EC): >C6-C8 >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C35 >C35+	

Assessment Manager: MS5 Page 2 of 34



# Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## Element Materials Technology Environmental UK Ltd

Issue No: 092 Issue date: 25 July 2025

#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AIR		X.
Ambient Air/Soil Vapour	Volatile Organic Compounds:	In-house test method TM068G using preparation method PM 034, using Summa (Silco-can) canisters, Tedlar Bags, Bottle Vac and GC-MS based on USEPA TO15.
	1,1,1-Trichloroethane	Wie based on ooel A 1015.
	1,1,2,2-Tetrachloroethane	
	1,1,2-Trichloroethane	
	1,1-Dichloroethane	
	1,1-Dichloroethene	
	1,2,4-Trimethylbenzene	
	1,2-Dibromoethane	
	1,2-Dichlorobenzene	
	1,2-Dichloroethane	
	1,2-Dichloropropane 1,3,5-Trimethylbenzene	
	1,3-Dichlorobenzene	
	1,4-Dichlorobenzene	
	Benzene	
	Bromomethane	
	Carbon Tetrachloride	
	Chlorobenzene	
	Chloroethane	
	Chloroform	
	cis-1,2-Dichloroethene	
	cis-1,3-Dichloropropene Ethylbenzene	
	m&p - Xylenes	
	Methylene Chloride	
	o-Xylene	
	Styrene	
	Tetrachloroethene	
	Toluene	
	trans-1,3-Dichloropropene	
	Trichloroethene	
	Trichlorofluoromethane	
	Trichlorotrifluoroethane Vinyl Choride	
	Villyl Chonde	

Assessment Manager: MS5 Page 3 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AIR (cont'd)		
Ambient Air	Volatile Organic Compounds 100 to 5000 pptv [equivalent to 0.1 to 5 ppbv]:  1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene Benzene Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform cis-1,2-Dichloroethene Ethylbenzene m&p - Xylenes Methylene Chloride o-Xylene Styrene Tetrachloroethene Trichloroethene Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorotrifluoroethane Vinyl Chloride	In-house test method TM205 using Summa (Silco-can) canisters and GC-MS detection

Page 4 of 34 Assessment Manager: MS5



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ATMOSPHERIC POLLUTANTS Collected on desorption tubes	Chemical Tests	
Tenax ATD tubes	Diethyl ether Hexane 1-Chlorobutane Benzene 1,1-Dichloropropene Chloroacetonitrile Trichloroethene Dibromomethane Methyl methacrylate Bromodichloromethane cis-1,3-dichloropropen Toluene trans-1,3-dichloroprop 1,1,2-Trichloroethane 1,3-Dichloropropane Ethyl methacrylate Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dibromoethane Tetrachloroethylene Chlorobenzene 1,1,1,2-tetrachloroeth Ethylbenzene M/P Xylene Bromoform Styrene O Xylene 1,1,2,2-Tetrachloroeth 1,2,3-Trichloropropane trans-1,4-dichloro-2-b Bromobenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butyl benzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene sec-Butylbenzene 1,4-Dichlorobenzene p-isopropyl toluene 1,2-Dichlorobenzene n-butyl benzene Hexachloroethane 1,2-dibromo-3-chloropr	In-house method TM 197G by Thermal Desorption GC-MS

Assessment Manager: MS5 Page 5 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ATMOSPHERIC POLLUTANTS Collected on desorption tubes (cont'd)	Chemical Tests (cont'd)	
Tenax ATD tubes	Nitrobenzene 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene Hexachlorobutadiene	In-house method TM 197G by Thermal Desorption GC-MS
SOILS	Chemical Tests	
	Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Zinc	In-house method TM030S using PM 015S and PM 077S by ICP-OES
	Water soluble boron	In-house method TM074 using PM 032 and PM 077S by ICP-OES
	Water Soluble Anions: Chloride Total Oxidised Nitrogen (TON) Sulphate	In-house method TM038 using PM 020S by discrete analyser
	Cyanide - Total	In-house method TM089W/S using PM 045S by segmented flow analysis

Assessment Manager: MS5 Page 6 of 34



## Schedule of Accreditation issued by

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)  Gasoline Range Organics (GRO) and banding: >C4-C8	In-house method TM 036S using PM 012S, using headspace GC-FID
	>C8-C12 >C5-C6 >C6-C8 >C8-C10 >C10-C12 Total GRO C4-C12 Total GRO C5-C12 MTBE benzene toluene ethylbenzene o-xylene m/p-xylene	
	Also aliphatic/aromatic fractionation and subsequent banding: Aliphatic: >C5-C6 >C6-C8 Aromatic (equivalent carbon EC) >C6-C8 >C8-C10	
	Extractable petroleum hydrocarbons (EPH) in the range: C8-C40 Diesel range organics (DRO) C25-C40 range organics - lubricating oil	In-house methods PM005S (orbital shaker) or PM006S (soxhlet extraction) or PM008S (end over end shake) followed by TM005S using GC-FID

Assessment Manager: MS5 Page 7 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	X
	Extractable petroleum hydrocarbons (EPH) in the range: >C8-C40, including banding: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35	In house methods PM008S (end over end shake) fractionation by SPE workstation PM016 followed by TM005S using GC-FID
	Extractable petroleum hydrocarbons (EPH) including aliphatic/aromatic fractionation and subsequent banding:	
	Aliphatic: >EC10 - EC12 >EC12 - EC16 >EC16 - EC21 Total aliphatics >C10-C40	
	Aromatic: >EC10 – EC12 >EC12 – EC16 >EC16 – EC21 Total aromatics >C10 – C40	
	Loss on ignition at 440 °C	In-house method TM022S using PM 004S
	рН	In house method TM073 using PM 011S using Metrohm robotic sample processor
	Total Sulphate	In-house method PM029S and PM 077 followed by TM050S using ICP-OES
	BTEX Compounds benzene toluene ethylbenzene o-xylene m/p-xylene	In House method TM152 including Methanol preservation (PM104) followed by Headspace GCMS

Assessment Manager: MS5 Page 8 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	
	Polychlorinated Biphenyls (PCBs): PCB 28/31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 81 PCB 87 PCB 123 PCB 105 PCB 105 PCB 105 PCB 106 PCB 106 PCB 167 PCB 156/157 PCB 169 PCB 189 Total PCBs (sum of above)	In-house method TM017S using end over end shaker (PM 008) and GC-MS
	Polycyclic Aromatic Hydrocarbons (PAHs):  Naphthalene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b/j/k)fluoranthene Benzo(a)pyrene Indeno(123,cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene	In-house method TM004S using end over end shake (PM008S) and GC-MS

Assessment Manager: MS5 Page 9 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Materials/Products tested  SOILS (cont'd)		

Assessment Manager: MS5 Page 10 of 34



# Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	measured/Range of measurement	Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	
	Volatile Organic Compounds (cont'd)	In-house method TM015S using PM 010S by headspace GC-MS
	1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene lsopropylbenzene 1,1,2,2 Tetrachloroethane 1,2,3-Trichloropropane Propylbenzene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene MTBE Carbon Disulphide	
	Hexavalent Chromium	In House method TM038 using PM 020S using Aquachem Photometric Analyser
	Phenol 2-Chlorophenol N-Nitrodi-n-propylamine Nitrobenzene Isophorone 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Hexachlorobutadiene 2-Methylnapthalene 2-Chloronaphthalene Dimethylphthalate Dibenzofuran 4-Bromophenyl phenyl ether Phenanthrene Fluoranthene Pyrene	In house method TM016S using PM 008 using GCMS analysis

Assessment Manager: MS5 Page 11 of 34



# Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Poly Chlorinated Dibenzo-p-Dioxins PCDDs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	
	Poly Chlorinated Dibenzo Furans PCDFs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	

Assessment Manager: MS5 Page 12 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Ser

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

	Type of test/Properties	Standard specifications/
Materials/Products tested	measured/Range of measurement	Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	
Leachate preparation (10:1)	Metals:  Aluminium Ammonium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chloride Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite Phosphate Phosphorus Potassium Selenium Sodium Sulphate Vanadium Zinc	PM017S 10:1 leachate preparation based on BS EN 12457

Assessment Manager: MS5 Page 13 of 34



## Schedule of Accreditation issued by

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested  Type of test/Properties measurement  Type of test/Properties measurement  Standard specifications/ Equipment/Techniques used  WATERS  Potable water (tap, non regulatory), Surface water and groundwater  Volatile Organic Compounds (VOCs): Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene			
Potable water (tap, non regulatory), Surface water and groundwater  Volatile Organic Compounds (VOCs): Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene	Materials/Products tested		
Surface water and groundwater (VOCs): Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene  TM015W by headspace GC-MS  TM015W by headspace GC-MS	WATERS	<u>Chemical Tests</u>	
Carbon Disulphide Dichloromethane Trans-1,2-Dichloroethene 1,1 - Dichloroethene Cis-1,2-Dichloroethene Bromochloromethane Chioroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,1-Trichloroethane Tetrachloroethene 1,3,-Dichloropropane Dibromochloromethane Tetrachloroethene 1,2-Diromoethane Chlorobenzene 1,1,1,1-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene Bromoform Isopropylbenzene Bromobenzene 1,2,3-Trichloropropane Propylbenzene Propylbenzene Propylbenzene 1,2,3-Trichloropropane Propylbenzene Propylbenzene 1,3,5-Trimethylbenzene 4-Chlorotoluene Tetr-Butylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene		(VOCs): Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Carbon Disulphide Dichloromethane Trans-1,2-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane Tetrachloroethene 1,3,-Dichloropropane Dibromochloromethane Tetrachloroethene 1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene Bromoform Isopropylbenzene Bromobenzene 1,2,3-Trichloropropane Propylbenzene Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene Tett-Butylbenzene 1,2,4-Trimethylbenzene	

Assessment Manager: MS5 Page 14 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Ser

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	X
Potable water (tap, non regulatory), Surface water and groundwater (cont'd)	Volatile Organic Compounds (VOCs) (cont'd):  4-Isopropyltoluene 1,3- Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene MTBE Vinyl Chloride	In-house method PM010 and TM015W by headspace GC-MS
Potable water (tap non regulatory), Surface water and groundwater	Volatile Organic Compounds (VOCs):  MTBE Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane Diethyl Ether 1,1-Dichloroethene Carbon Disulphide Acrylonitrile Trans-1,2-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene Propionitrile Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Toluene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene	In-house method TM 128 using PM 115W by Purge and Trap GC-MS

Assessment Manager: MS5 Page 15 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	***

Assessment Manager: MS5 Page 16 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	X
Drinking Water (non-regulatory), Surface water and Ground water	Determination of Per - and polyfluoroalkyl substances (PFAS), specifically:  PFBA PFPeA PFBS PFHxA PFPeS PFHpA naDONA PFHxS PFOA PFHpS PFNA PFOS PFNA PFOS PFDA 9CI-PF3ONS PFUnA	In-house method TM0135 using SPE preparation (PM122W) and LC-MS/MS
Drinking Water ( non regulatory)	Determination of Per - and polyfluoroalkyl substances (PFAS), specifically: HFPO-DA	In-house method TM0135 using SPE preparation (PM122W) and LC-MS/MS.

Assessment Manager: MS5 Page 17 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Se

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	
Surface Water and groundwater	Phenols Cresols Xylenols	In-house method TM026 using PM 067W, using HPLC
Surface Water and groundwater	Hexavalent Chromium	In house method TM038 using PM 031W, by an Automated photometric Analyser
Surface Water and groundwater	Dissolved Gases: Ethane Ethene Methane	In house method TM025 using GC-TCD-FID
Potable water (non-regulatory), surface water and groundwater	Extractable petroleum hydrocarbons (EPH) including banding: >C10-C12 >C12-C16 >C16-C21 >C21-C35	In-house method TM005 by GC-FID using stir bar extraction (PM030W) and fractionation by RapidTrace workstation PM016
Potable water (non-regulatory), surface water and groundwater	Total EPH >C10-C40  And including aliphatic/aromatic fractionation and subsequent banding  Aliphatic: >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-C40 Total Aliphatic (>C10-C40)  Aromatic (equivalent carbon EC): >C10-C12 >C12-C16 >C16-C21 >C35-C40 Total Aromatic (>C10-C40)	

Assessment Manager: MS5 Page 18 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	**
Potable water (non-regulatory), surface water and groundwater	Semi-Volatile Organic Compounds (SVOCs):  1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Methylnapthalene 2-Methylphenol 4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol 4-Chlorophenyl phenyl ether 4-Chlorophenyl phenyl ether 4-Chlorophenyl phenyl ether Acenaphthene Acenapthylene Anthracene Azobenzene Benz[a]anthracene Benzo[b/k]fluoranthene Benzo[ghi]perylene Bis(2-Chloroethoxy)methane Carbazole Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethyl phthalate Di-n-Butyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobenzene Hexachloroethane Isophorone Napthalene Nitrobenzene N-Nitrodi-n-propylamine Phenanthrene Pyrene	In-house method TM016 using stir bar extraction (PM030W) followed by GC-MS analysis

Assessment Manager: MS5 Page 19 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	
Drinking water (non regulatory tap water), Groundwater, Surface	Metals:	In house method PM017S based on BS EN 12457 (10:1 leachate preparation) and In house method TM170W using PM014W by ICP- MS
Water (river water), Prepared leachate, Trade effluent	Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Molybdenum	
(phosphorus -excluding tap water and trade effluent)	Nickel Phosphorous Selenium Tin Vanadium Zinc	
Surface water, groundwater and leachate from landfill	Extractable petroleum hydrocarbons (EPH) in the range: C8-C40	In-house method TM005 by GC-FID using stir bar extraction (PM030W)
	Alkalinity	In house method TM075 using PM 031W using robotic sample processor
Surface water, groundwater and leachate from landfill (cont'd)	рН	In house method TM073 using PM 031W using robotic sample processor
	Electrical Conductivity at 25 °C	In house method TM076 using PM 031W using robotic sample processor

Assessment Manager: MS5 Page 20 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)  Total Organic Carbon Dissoved Organic Carbon Total Inorganic Carbon Dissolved Inorganic Carbon Total Carbon	In-house method TM060W by TOC analyser
	Biochemical Oxygen Demand (BOD)	In house method TM058 using DO probe and meter
Surface water, groundwater, Tap water (non-regulatory) and prepared leachate	Biochemical Oxygen Demand (BOD)	In house method TM058 using Manometric Bottle top sensors
Surface water, groundwater and leachate from landfill	Polycyclic Aromatic Hydrocarbons (PAHs):  Naphthalene Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Benzo(b/k)fluoranthene Benzo(a)pyrene Indeno(123,cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene Chrysene	In-house method TM004W using stir bar extraction (PM030W) and GC-MS

Assessment Manager: MS5 Page 21 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	
Surface water, groundwater and leachate from landfill (cont'd)	Gasoline Range Organics (GRO) and banding:  MTBE Benzene Toluene Ethylbenzene o-xylene m/p-xylene Decane Dodecane Naphthalene  >C5-C6 >C6-C8 >C5-C8 >C5-C8 >C8-C10	In-house method TM 036W using PM 012W using headspace GC-FID
Surface water, groundwater and leachate from landfill	>C8-C12  Gasoline Range Organics (GRO) and banding:  Total GRO >C5-C12 Also aliphatic/aromatic fractionation and subsequent banding: Aliphatic: C5-C6 >C6-C8 >C8-C10 Aromatic (equivalent carbon EC) >C5-C7 >C7-C8 >C8-C10	In-house method TM 036W using PM 012W using headspace GC-FID

Assessment Manager: MS5 Page 22 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Ser

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	
Surface water, groundwater, leachate prepared from soils and leachate from landfill	Elements:  Aluminium Antimony Arsenic Barium Cadmium Calcium Cobalt Chromium Copper Iron Lead Mercury Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Sodium Vanadium Zinc	PM017S 10:1 leachate preparation based on BS EN 12457 In-house method TM 030W using PM 014W using ICP-OES
Surface water, groundwater, leachate prepared from soils and leachate from landfill	Ammonium Chloride Nitrate (derived) Nitrite Phosphate Sulphate Total Solids Total Dissolved Solids  Total Suspended Solids	In house method TM061 using PM 031W using CVAFS  PM017S 10:1 leachate preparation based on BS EN 12457  In-house method TM038 using PM 031W using discrete analyser  In-house method TM020W using PM 031W by Gravimetry  In-house method TM037W using PM 031W by Gravimetry

Assessment Manager: MS5 Page 23 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Serv

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	X
Tap water (non regulatory) surface water, groundwater, leachate prepared from soils and leachate from landfill	Cyanide - Total and Free	In-house method TM089W/S using PM 031W by segmented flow analysis
Surface Water Groundwater Potable Water (non regulatory) Trade Effluent	Poly Chlorinated Dibenzo-p-Dioxins PCDDs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM146 GC-HRMS TM215W
	2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	
	Poly Chlorinated Dibenzo Furans PCDFs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM146 GC-HRMS TM215W
	2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	

Assessment Manager: MS5 Page 24 of 34



## Schedule of Accreditation issued by Inited Kingdom Accreditation Ser

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	X
Drinking water (non regulatory), groundwater, surface water and trade effluent	Polychlorinated Biphenyls (PCBs):  PCB 28 PCB 52 PCB 101 PCB 81 PCB 77 PCB 123 PCB 118 PCB 114 PCB 157 PCB 105 PCB 167 PCB 153 PCB 156 PCB 180 PCB 180 PCB 169 PCB 189	PCB Congeners by in house method TM017W using stir bar extraction (PM030W) and GC-MS analysis.
	Settled Chemical Oxygen Demand	In-house method TM057W by spectrophotometry
Landfill leachate and leachate prepared from soil	Elements:  Boron Beryllium	PM017S 10:1 leachate preparation based on BS EN 12457 In-house method TM030W using ICP-OES
Surface Water and Ground Water	Tert-Amyl methyl ether (TAME) Diisopropylether(DIPE) Ethyl-tert-butyl ether (ETBE)	In-house method TM083 by preparation method PM 039W and using Headspace GCMS

Assessment Manager: MS5 Page 25 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil
	Gasoline Range Organics (GRO) and banding: >C4-C8 >C8-C12 >C5-C6 >C6-C8 >C8-C10 >C10-C12 Total GRO C4-C12 Total GRO C5-C12  MTBE benzene toluene ethylbenzene o-xylene m/p-xylene	In-house method TM 036S using PM 012S by headspace GC-FID

Assessment Manager: MS5 Page 26 of 34



## **Schedule of Accreditation** issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Meterials/Products tested Type of test/Properties Standard specifications/		
Materials/Products tested	measured/Range of measurement	Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)
	Gasoline Range Organics (GRO) and banding: (cont'd)	In-house method TM 036S using PM 012S by headspace GC-FID (cont'd)
	Also aliphatic/aromatic fractionation and subsequent banding: Aliphatic: >C5-C6 >C6-C8 Aromatic (equivalent carbon EC): >C6-C8 >C8-C10	
	Extractable petroleum hydrocarbons (EPH) in the range: C8-C40 Diesel range organics (DRO) C25-C40 range organics - lubricating oil	In-house methods PM008S (end over end shake) followed by TM005S using GC-FID
	Extractable petroleum hydrocarbons (EPH) in the range: >C8-C40, including banding: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35	In house methods PM008S (end over end shake) fractionation by SPE workstation PM016 followed by TM005S using GC-FID
	>C10-C20 >C20-C30 >C30-C40	

Assessment Manager: MS5 Page 27 of 34



## **Schedule of Accreditation** issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)	
	Extractable petroleum hydrocarbons (EPH) (cont'd)  And including aliphatic/aromatic fractionation and subsequent banding: Aliphatic: >EC10-EC12 >EC12-EC16 >EC16-EC21 Total aliphatics >C10-C40  Aromatic: >EC10-EC12 >EC12-EC16 >EC16-EC21 Total aliphatics >C10-C40	In house methods PM008S (end over end shake) fractionation by SPE workstation PM016 followed by TM005S using GC-FID (cont'd)	
	Polycyclic Aromatic Hydrocarbons (PAHs):  Naphthalene Acenaphthene Fluorene Phenanthrene Fluoranthene Chrysene Benzo(b/k)fluoranthene Indeno(123,cd)pyrene	In-house method TM004S using end over end shake (PM008S) and GC-MS	
	Phenols: Phenol m/p-Cresol o-Cresol Xylenols 2,3,5-Trimethylphenol 2-Isopropylphenol	In-house method TM026 using sovent extraction (PM021S) and HPLC	

Assessment Manager: MS5 Page 28 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)
	Elements: Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Zinc	In-house method TM030S using PM 015S and PM 077S by ICP-OES
	Water soluble boron	In-house method TM074 by PM 015S and PM 077S by ICP-OES
	Water Soluble Anions: Chloride Sulphate	In-house method TM038 by PM 020S by discrete analyser
	Cyanide - Total	In-house method TM089W/S by PM 045S by segmented flow analysis

Assessment Manager: MS5 Page 29 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)
	Polychlorinated Biphenyls (PCBs):  PCB 81 PCB 77 PCB 123 PCB 118 PCB 114 PCB 105 PCB 126 PCB 167 PCB 156/157 PCB 156/157 PCB 189 PCB 28 PCB 28 PCB 52 PCB 101 PCB 153 PCB 138 PCB 138 PCB 138	PCB Congeners by in house method TM017S using Preparation method PM008S and GC-MS analysis.
	рН	In-house method TM073 using PM 011S by Metrohm robotic sample processor
	Total Sulphate	In-house method PM029S followed by TM050S using ICP-OES
	Volatile Organic Compounds:  MTBE Chloroethane Trichlorofluoromethane 1,1-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Benzene Trichloroethene	In-house method TM015S by PM 010S by headspace GC-MS

Assessment Manager: MS5 Page 30 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

#### Testing performed at main address only

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
SOILS (cont'd)	Chemical Tests (cont'd)  Volatile Organic Compounds (cont'd):	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)	
	1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane 1,3,-Dichloropropane Dibromochloromethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene 1,1,2,2 Tetrachloroethane 1,2,3-Trichloropropane 1,3- Dichlorobenzene 1,2-Dichlorobenzene Semivolatile Organic Compounds Phenol 2-Chlorophenol N-Nitrodi-n-propylamine Nitrobenzene Isophorone 2,4-Dichlorobenzene Hexachlorobutadiene 2-Methylnapthalene 2-Chloronaphthalene Dimethylphthalate Dibenzofuran 4-Bromophenyl phenyl ether Phenanthrene Fluoranthene Pyrene	In house method TM016S using PM 008 S by GCMS analysis	

Assessment Manager: MS5 Page 31 of 34



## **Schedule of Accreditation** issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES	Chemical Tests	National, European, International and Environment specified standards including MIDs and documented in-house methods to meet the requirements of the Environment Agency (MCERTS) performance standard for laboratories carrying out testing of samples from stack emissions monitoring
Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps	Poly Chlorinated Dibenzo-p-Dioxins PCDDs	BS EN 1948-2:2006 and BS EN 1946-3:2006 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS)
	2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	Extraction PM137 GCHRMS TM201
Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps	Poly Chlorinated Dibenzo Furans PCDFs	BS EN 1948-2:2006 and BS EN 1946-3:2006 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS)
	2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	Extraction PM137 GCHRMS TM201

Assessment Manager: MS5 Page 32 of 34



## Schedule of Accreditation issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES (Cont'd)	Chemical Tests (Cont'd)	National, European, International and Environment specified standards including MIDs and documented in-house methods to meet the requirements of the Environment Agency (MCERTS) performance standard for laboratories carrying out testing of samples from stack emissions monitoring
Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps	Polychlorinated Biphenyls PCB	BS EN 1948-4:2010+A1:2013 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS)
		Extraction PM137 GCHRMS TM201
	Congener 77 Congener 81 Congener 105 Congener 114 Congener 118 Congener 123 Congener 126 Congener 156 Congener 157 Congener 167 Congener 169 Congener 189	
ASH	Poly Chlorinated Dibenzo-p-Dioxins PCDDs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	CO TITAVIO TIVIZOO

Assessment Manager: MS5 Page 33 of 34



## **Schedule of Accreditation** issued by

## United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## **Element Materials Technology Environmental UK Ltd**

Issue No: 092 Issue date: 25 July 2025

### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES (Cont'd)	Chemical Tests (Cont'd)	
ASH	Poly Chlorinated Dibenzo Furans PCDFs	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	
	Polychlorinated Biphenyls PCB	Documented In-house methods based on EPA 1668. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	Congener 77 Congener 81 Congener 105 Congener 114 Congener 118 Congener 123 Congener 126 Congener 156 Congener 157 Congener 167 Congener 169 Congener 189	GO-TITATIVIO TIVIZOO
	END	

Assessment Manager: MS5 Page 34 of 34