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Tetra Tech Environmental Management Limited

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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
ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	Chemical Tests	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring
Sorbent tubes (silica gel)	Acetaldehyde, formaldehyde, propionaldehyde, butraldehyde, benzaldehyde, valeraldehyde, hexanal	NIOSH 2016 using HPLC UV analysis (A40)
Sorbent tubes (XAD 7)	Phenol, m,p-xylenol, o-xylenol	NIOSH 2546 using GC FID analysis (P1)
Sorbent tubes (Activated carbon)	**Determination of Volatile Organic Compounds, specifically:** 1,3,5-trimethylbenzene 1,2,4-trimethylbenzene 2-ethyl toluene 3,4-ethyl toluene Benzene Butyl acetate DCM Ethyl acetate	PD CEN/TS 13649:2014 using solvent extraction and GC FID analysis (O8)

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 Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring
Sorbent tubes (Activated carbon)	**Determination of Volatile Organic Compounds, specifically:** (cont'd) Ethyl benzene Heptane Hexane Limonene m,p-xylene MIBK MTBE o-xylene Propyl benzene Tetrachloroethylene THF Toluene Trichloroethylene	PD CEN/TS 13649:2014 using solvent extraction and GC FID analysis (O8)
Impinger Solutions (sulphuric acid)	Ammonia	BS EN ISO 21877:2019 using IC analysis (A6)
Impinger Solutions (sulphuric acid)	Hydrogen bromide	US EPA Method 26 using IC analysis (C27)
Impinger Solutions (sodium hydroxide)	Chlorine (Cl_2) Bromine (Br_2)	US EPA Method 26 using IC analysis (C27)
Impinger Solutions (hydrogen peroxide)	Sulphur dioxide	BS EN 14791:2017 using IC analysis (C27)

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 Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring
Impinger Solutions (water)	Formaldehyde	PD CEN/TS 17638:2021 & US EPA method 316 using spectrophotometric analysis (M103)
Impinger Solutions (water)	Hydrogen chloride	BS EN 1911-3:2010 using IC analysis (C27)
Impinger Solutions (water)	Hydrogen fluoride	PD CEN/TS 17340:2020 using IC analysis (C27)
Impinger Solutions (sodium hydroxide)	Hydrogen fluoride	BS ISO 15713:2006 (modified) using IC analysis (C27)
Impinger Solutions (zinc acetate)	Hydrogen sulphide	USEPA Method 11 by titrimetry (M120)
Filters, probe rinses (nitric acid), impinger solutions (nitric acid / hydrogen peroxide)	**Metals specifically:** Arsenic Cadmium Cobalt Chromium Copper Manganese Nickel Lead Antimony Selenium Tin Thallium Vanadium Zinc	BS EN 14385:2024 using microwave and HF digestion followed by ICP-MS analysis (M31)

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 Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring
Filters probe rinses (nitric acid) Impinger Solutions (nitric acid/hydrogen peroxide, sulphuric acid/potassium permanganate, nitric acid/potassium dichromate)	Mercury	BS EN 13211:2001 and BS EN 1483:2007 [withdrawn]) using microwave and HF digestion followed by: CV-AFS analysis (M112)
Filters	Isocyanates - TDI, MDI, HDI	Documented In-house Method M119 based on US EPA CTM 036A using HPLC Diode array
	Physical Testing	
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (D9)

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	Documented In-House Methods based on the following national, international and other recognised standards
Sorbent tubes (silica gel)	Acetaldehyde, formaldehyde, glutaraldehyde, propionaldehyde, butraldehyde, benzaldehyde, valeraldehyde, hexanal, heptanal	NIOSH 2016 using HPLC UV analysis (A40)
Sorbent tubes (XAD 7)	Phenol, m,p-cresol, o-cresol, m,p-xylenol, o-xylenol	NIOSH 2546 using GC FID analysis (P1)
Sorbent tubes (Activated carbon)	**Determination of Volatile Organic Compounds, specifically:** Acetone Benzene n-Butanol 2-Butanone 2-Butoxy ethanol 2-Butoxyethyl acetate Butyl Acetate tert-Butyl Methyl Ether Cyclohexanone Dichloromethane Enflurane Ethanol Ethyl Acetate Ethylene oxide (3M3551) Ethylbenzene 2-Ethyl toluene 3,4-Ethyl toluene Halothane Heptane Hexane Isoflurane Limonene Methanol 1-Methoxy 2-Propanol 4-Methyl-2-Pentanone (MIBK) Nonane 2-Propanol Propyl Benzene	PD CEN/TS 13649:2014 using solvent extraction and GC FID analysis (O8)

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)	Documented In-House Methods based on the following national, international and other recognised standards
Sorbent tubes (Activated carbon) (cont'd)	**Determination of Volatile Organic Compounds, specifically:** (cont'd) Propylene glycol methyl ether acetate Sevoflurane Styrene Tetrachloroethylene Tetrahydrofuran Toluene Trichloroethylene 1,2,3-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3,5-Trimethyl benzene xylene m xylene o xylene p	PD CEN/TS 13649:2014 using solvent extraction and GC FID analysis (O8)
Impinger Solutions (sulphuric acid)	Ammonia	BS EN ISO 21877:2019 using IC analysis (A6)
Impinger Solutions (sodium hydroxide)	Chlorine (Cl_2) Bromine (Br_2)	US EPA Method 26 using IC analysis (C27)
Impinger Solutions (sulphuric acid)	Hydrogen chloride(HCl) Hydrogen bromide (HBr) Hydrogen fluoride (HF)	US EPA Method 26 using IC analysis (C27)
Impinger Solutions (hydrogen peroxide)	Sulphur Dioxide	BS EN 14791:2017 using IC analysis (C27)
Impinger Solutions (water)	Formaldehyde	PD CEN/TS 17638:2021 & US EPA method 316 using spectrophotometric analysis (M103)

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)	Documented In-House Methods based on the following national, international and other recognised standards
Impinger Solutions (water)	Hydrogen Chloride	BS EN 1911-3:2010 using IC analysis (C27)
Impinger Solutions (sodium hydroxide)	Hydrogen fluoride	BS ISO 15713:2006 (modified) using IC analysis (C27)
Impinger Solutions (water)	Hydrogen fluoride	PD CEN/TS 17340:2020 using IC analysis (C27)
Impinger Solutions (cadmium sulphate and zinc acetate)	Hydrogen sulphide	USEPA Method 11 by titrimetry (M120)
Filters probe rinses (nitric acid) Impinger Solutions (nitric acid/hydrogen peroxide, sulphuric acid/potassium permanganate, nitric acid/potassium dichromate)	Mercury	BS EN 13211:2001 and BS EN 1483:2007 [withdrawn]) using microwave and HF digestion followed by: CV-AFS analysis (M112)
Filters, probe rinses (nitric acid), impinger solutions (nitric acid / hydrogen peroxide)	Metals including: Arsenic, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Nickel, Lead, Antimony, Selenium, Tin, Thallium, Vanadium, Iron, Zinc,	BS EN 14385:2024 using microwave and HF digestion followed by ICP-MS analysis (M31)
Impinger solutions (Potassium permanganate)	Oxides of Nitrogen (NO, NO_2, NO_3)	USEPA 7d (May 1990) (C27)
Filters	Isocyanates - TDI, MDI, HDI	Documented In-house Method M119 based on US OSHA47 and OSHA42, and US EPA CTM 036A using HPLC Diode array in accordance with MCERTS Stacks requirements

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)	Documented In-House Methods based on the following national, international and other recognised standards
Filter Papers and Rinse Solutions	Physical Testing	
	Weighing of Particulate Matter	BS EN 13284-1:2017 (D9)
POLLUTANTS AND EFFLUENTS: ATMOSPHERIC Diffuse pollutants from workplace atmospheres	Chemical Analysis	Documented In-House Methods based on the following national, international and other recognised standards (cont'd)
IOM dual fraction head	Total and Respirable Dust	Documented In-house method D1 by gravimetric analysis based on MDHS 14/4
XAD-7 air sampling tube	Phenol Cresol Xylenol	Documented In-house method P1 by GC/FID analysis based on NIOSH 2546
Silica gel tubes	Hydrochloric acid Hydrobromic acid Phosphoric acid Nitric acid Sulphuric acid	Documented In-House Method C27 based on NIOSH 7903 (Aug 1994 - Withdrawn) using Ion Chromatography
	Ammonia	Documented In-House Method A6 based on NIOSH 6016 (May 1996) using Ion Chromatography
	Ethanolamine Methylamine Dimethylamine	Documented In-house method A1 by IC analysis

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
POLLUTANTS AND EFFLUENTS: ATMOSPHERIC Diffuse pollutants from workplace atmospheres (cont'd)	Chemical Analysis (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards
Silica gel tubes	Acetaldehyde, Formaldehyde,Glutaraldehyde, Propionaldehyde Butraldehyde, Benzaldehyde, Valeraldehyde, Hexanal, Heptanal	Documented In-House Method A40 based on NIOSH 2016 using High Performance Liquid Chromatography
r Passive samplers	Acetaldehyde, Formaldehyde, Glutaraldehyde, Propianaldehyde,Butraldehyde, Benzaldehyde,Valeraldehyde, Hexanal,Heptanal	Documented In-House Method A40 using High Performance Liquid Chromatography
Filters and/or impingers	Rubber Fume	Documented In-House Method C16 based on MDHS 47/3 (March 2015) using Gravimetric techniques and solvent extraction
Toluene/1-(2-methoxyphenyl)-piperazine treated filters, impingers	Isocyanates MDI (as NCO) HDI (as NCO) HDI (as NCO) IPDI (as NCO)	Documented In-House Method I3 based on MDHS 25/3 (Jan 1999) using High Pressure Liquid chromatography
Filters	Total and Respirable Dust	Documented In-House Method D1 based on MDHS 14/4 (2000) using Gravimetric techniques

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
POLLUTANTS AND EFFLUENTS: ATMOSPHERIC Diffuse pollutants from workplace atmospheres (cont'd)	Chemical Analysis (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards
MCE filters	**Metals:** Aluminium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Indium Lead Manganese Moybdenum Nickel Selenium Strontium Tellurium Thallium Tin Vanadium Zinc	Documented In-House Method M24 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
POLLUTANTS AND EFFLUENTS: ATMOSPHERIC Diffuse pollutants from workplace atmospheres (cont'd)	Chemical Analysis (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards
Activated charcoal tubes and passive samplers	**Determination of airborne organic compounds specifically:** Acetone Benzene n-Butanol 2-Butanone 2-Butoxy ethanol 2-Butoxyethyl acetate Butyl Acetate tert-Butyl Methyl Ether Cyclohexanone Decane Dichloromethane Enflurane Ethanol Ethyl Acetate Ethylene oxide (3M3551) Ethylbenzene 2-Ethyl toluene 3,4-Ethyl toluene Halothane Heptane Hexane Isoflurane Limonene Methanol 1-Methoxy 2-Propanol 4-Methyl-2-Pentanone (MIBK) Nonane 2-Propanol Propyl Benzene Propylene glycol methyl ether acetate Sevoflurane Styrene Tetrachloroethylene Tetrahydrofuran	Documented In-House Method O8 based on PD CEN/TS 13649:2014 using solvent desorption followed by capillary column gas chromatography with flame ionisation detector

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
POLLUTANTS AND EFFLUENTS: ATMOSPHERIC Diffuse pollutants from workplace atmospheres (cont'd)	Chemical Analysis (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards
Activated charcoal tubes and passive samplers (cont'd)	**Determination of airborne organic compounds specifically:** (cont'd) Toluene Trichloroethylene 1,2,3-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3,5-Trimethyl benzene xylene m xylene o xylene p	Documented In-House Method O8 based on PD CEN/TS 13649:2014 using solvent desorption followed by capillary column gas chromatography with flame ionisation detector
Activated charcoal tubes and passive samplers - Anasorb 747	Methanol	Documented In-House Method O8 based on OSHA 91 using solvent desorption followed by capillary column gas chromatography with flame ionisation detector
3M-3551 passive badges	Ethylene Oxide	Documented In-House Method O8 using solvent desorption followed by capillary column gas chromatography with flame ionisation detector
WATERS	Chemical Analysis	Documented In-House Methods
Deionised water	Determination of anions: Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulphate	Documented In-House Method C27 using Ion Chromatography
Surface water, sewage (treated and untreated)	Tributyl Tin	Documented In-House Method M128 using GC-ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MARINE SEDIMENTS	Chemical Analysis	Documented In-House Methods
Marine Sediments - (Dried and ground by customer – as received)	**Metals, specifically:** Aluminium Arsenic Barium Cadmium Chromium Copper Iron Lead Lithium Manganese Nickel Scandium Tin Strontium Vanadium Zinc Mercury	Documented in house method M129 by total microwave digestion followed by ICP-MS and AFS analysis
Marine Sediments - (Dried and ground by customer – as received)	**Metals, specifically:** Aluminium Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Nickel Scandium Strontium Vanadium Zinc Mercury	Documented in house method M132 by partial microwave Aqua Regia followed by ICP-MS and AFS digestion using 50% nitric acid or analysis
END		