Schedule of Accreditation

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Amentum Clean Energy 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
	Radiochemical Analysis	
SEDIMENT, SOIL, CONCRETE, GEOLOGICAL MATERIALS MILK, SEWAGE SLUDGE, PLASTICS, SOFT WASTE, GRAPHITE, AQUEOUS SOLUTIONS, WATER: Natural, process, waste and potable	Tritium - ^{3}H	Documented In-House Method OM Pyrolysis, tritium analysis by pyrolysis and liquid scintillation
WATER: Natural, process, waste, potable and sea water	Tritium - ^{3}H	Documented In-House Method OM H-3 based on ISO 9698:2019 by liquid scintillation
MILK	Tritium - ^{3}H	Documented In-House Method OM H-3 by distillation and liquid scintillation counting
SEDIMENT, SOIL, CONCRETE, WATER: Natural, process, waste and potable	Gross alpha and beta radioactivity (thick source method) relative to: Alpha - ^{239}Pu, ^{241}Am Beta - ^{137}Cs, ^{40}K	Documented In-House Method OM ABTS based on ISO 9696:2017 and ISO 9697:2017, by proportional counting
FREEZE-DRIED SEAWEED, CRUSTACEA, MOLLUSCS AND FISH	Gross beta radioactivity (thick source method) relative to: ^{40}K	Documented In-House Method OM ABTS based on ISO 9697:2008 by gas-flow proportional counting
NUCLEAR POWER STATION EFFLUENT	Gross beta radioactivity relative to ^{137}Cs, $^{3}H/^{137}Cs$, $^{35}S/^{137}Cs$ and $^{55}Fe/^{35}S$	Documented In-House Method OM GBLSC by liquid scintillation counting
ACIDIC AQUEOUS BUBBLER SOLUTIONS	Gross beta radioactivity relative to Tritium ^{3}H and Sulfur - ^{35}S	Documented In-House method OM GBBUB by liquid scintillation counting

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Radiochemical Analysis (cont'd)	
ALKALINE AQUEOUS BUBBLER SOLUTIONS	Gross Beta radioactivity relative to Carbon - ^{14}C	Documented In-House method OM GBBUB by liquid scintiallation counting
NUCLEAR POWER STATION EFFLUENT MILK, GRASS/HERBAGE	Sulfur – ^{35}S	Documented In-House method OM S-35 by liquid scintillation counting
SWABS, SEDIMENT, SOIL, CONCRETE, BUILDING MATERIALS, WATER: Natural, process, waste and potable	Strontium - ^{90}Sr	Documented In-House Method OM Sr-90 by liquid scintillation and ICP-MS (partial and full ingrowth)
LARGE SEDIMENT & SOIL SAMPLES (up to 28 g) MILK, FISH (FREEZE-DRIED) & MOSS (FREEZE-DRIED)	Strontium - ^{90}Sr	Documented In-House method OM Sr-90 and OM Sample Preparation by liquid scintillation counting and ICP-MS (partial and full ingrowth)
SEDIMENT, SOIL, CONCRETE, , STEEL, SWABS, WATER: Natural, process, waste and potable	Iron - ^{55}Fe	Documented In-House Method OM Fe-55 by liquid scintillation
SOIL, CONCRETE, STEEL, SWABS, WATER: Natural, process, waste and potable	Nickel - ^{63}Ni	Documented In-House Methods OM Ni-63 & OM ICPMS Ni63 by liquid scintillation and ICP-MS
CONCRETE, PAPER SWABS, SODIUM CARBONATE SOLUTION, AQUEOUS SOLUTIONS, MILK, WATER: Natural, process, waste and potable	Carbon - ^{14}C	Documented In-House Method OM Pyrolysis by liquid scintillation counting of Beta radioactivity
FISH (FREEZE-DRIED), GRASS and HERBAGE	Carbon - ^{14}C	Documented In House Method OM Pyrolysis by Pyrolysis and Liquid Scintillation
SOIL	Carbon - ^{14}C	Documented In House Method OM Pyrolysis by Pyrolysis and Liquid Scintillation
Plastic and Metal	Carbon -^{14}C	Documented In House Method OM Pyrolysis by Pyrolysis and Liquid Scintillation

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Radiochemical Analysis (cont'd)	
SEDIMENT, SOIL, CONCRETE, SEAFOOD, WATER: Natural, process, waste and potable	Technetium - ^{99}Tc	Documented In-House Methods OM Tc-99 Solid, OM Tc-99 Water, OM ICPMS Tc99 by ICP-MS
	Determination of alpha emitting radionuclides	
SEDIMENT, SOIL, GEOLOGICAL MATERIALS, WATER: Natural, process, waste and potable	Natural Uranium isotopes ^{238}U, ^{235}U, ^{234}U	Documented In-House Method OM U and OM AS by alpha spectrometry
SEDIMENT, SOIL, CONCRETE, GEOLOGICAL MATERIALS, WATER: Natural, process, waste and potable	Recycled Uranium isotopes ^{238}U, ^{236}U, ^{235}U, ^{234}U, ^{233}U, ^{232}U	Documented In-House Method OM U, OM AS and OM ICPMS-URECYC by alpha spectrometry and ICP-MS
	Non-Uranic Actinides	
SWABS, SEDIMENT, SOIL, CONCRETE, WATER: Natural, process, waste and potable	Americium - ^{241}Am Curium - ^{242}Cm, $^{243+244}$Cm Plutonium - $^{239+240}$Pu, ^{238}Pu, ^{241}Pu, ^{242}Pu Thorium - ^{232}Th, ^{230}Th, ^{228}Th	Documented In-House Method OM ACT and OM AS by alpha spectrometry and liquid scintillation
FISH (FREEZE-DRIED) AND MILK	Americium – ^{241}Am	Documented In-House Methods OM ACT and OM AS by alpha spectrometry
FISH (FREEZE-DRIED) AND MILK	Plutonium – $^{239+240}$Pu, ^{238}Pu, ^{242}Pu	Documented In-House Methods OM ACT and OM AS by alpha spectrometry
	Gamma Emitting Nuclides	
ENVIRONMENTAL SAMPLES (Water, aqueous solutions, leachates, biota, air filters, soils, sediment and geological materials)	Gamma Spectrometry (Energy Range: 60 keV to 2 MeV)	Documented In-House Methods OM GSSP, OM GSSOP and OM GS
FOODSTUFFS	Gamma Spectrometry (Energy Range: 60 keV to 2 MeV)	Documented In-House Methods OM GSSP, OM GSSOP and OM GS
NON-ENVIRONMENTAL SOLIDS AND LIQUIDS	Gamma Spectrometry (Energy Range: 60 keV to 2 MeV) (up to density: 2.5 g cm^{-3})	Documented In-House Methods OM GSSP, OM GSSOP and OM GS

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 anthophyllite Fibrous tremolite	Documented In-House Method OM – Asbestos in Bulk Material using stereomicroscopy, 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	Identification: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method OM – Asbestos in Soils for identification 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	Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method OM – Asbestos in Soils for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. Documented In-House Method OM – Asbestos in Soils for quantification of asbestos using gravimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Chemical Analysis	
SOILS	Polycyclic Aromatic Hydrocarbons (PAH) and phenols: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Benz(a)anthracene Chrysene Benzo (b/k) fluoranthene Benzo (a) pyrene Indeno[1,2,3-cd] pyrene Dibenz[a,h]anthracene Benzo [ghi] perylene Phenol 2-methylphenol 3/4-methylphenol	Documented In-House Method OM 11 using microwave digestion and GC-MS using method OM 003 (PAH) and Method OM 004 (Phenols)
SOILS	Polychlorinated Biphenyls (PCBs) as the EC7 congeners PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	Documented In-House Method OM013 using microwave extraction and GC-MS using Method OM002
SOILS	Volatile Organic Compounds See as listed in Appendix 1	Documented In-House Method OM008 using headspace GC-MS
WATER groundwater, surface water, prepared leachate and treated sewage effluent	Volatile Organic Compounds See as listed in Appendix 1	Documented In-house Method OM007 using headspace GC-MS
Drinking water (non-regulatory), groundwater, surface water, process water, leachate from soil trade effluent	Uranium	Documented In-house Method OM035 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	Chemical Analysis	
Groundwater, surface water, process water, leachate from soil trade effluent	Aluminium Barium Bismuth Boron Cadmium Chromium Copper Gadolinium Iron Lead Lithium Manganese Mercury Nickel Potassium Sodium Silicon Tin Titanium Uranium Zinc	Documented In-house Method OM036 using ICP-OES
Surface water, process water, leachate from soil, trade effluent	Magnesium	Documented In-house Method OM036 using ICP-OES
Surface water, process water, trade effluent	Calcium	Documented In-house Method OM036 using ICP-OES
END		

Appendix 1

	Groundwater	Surface Water	Prepared leachate	Treated Sewage Effluent	Soil
Chloromethane	Y	Y	Y	Y	Y
Vinyl chloride	Y	Y	Y	Y	Y
Bromomethane	Y	Y	Y	Y	Y
Chloroethane	Y	Y	Y	Y	Y
Trichlorofluoromethane	Y	Y	Y	Y	Y
1,1-Dichloroethylene	Y	Y	Y	Y	Y
Dichloromethane	Y	Y	Y	Y	Y
MTBE	Y	Y	Y	Y	Y
1,1-Dichloroethane	Y	Y	Y	Y	Y
Cis-1,2-Dichloroethylene	Y	Y	Y	Y	Y
2,2-Dichloropropane	Y	Y	Y	Y	Y
Chloroform	Y	Y	Y	Y	Y
Bromochloromethane	Y	Y	Y	Y	Y
1,1,1-Trichloroethane	Y	Y	Y	Y	Y
1,1-Dichloropropene	Y	Y	Y	Y	Y
Carbon tetrachloride	Y	Y	Y	Y	Y
1,2-Dichloroethane	Y	Y	Y	Y	Y
Benzene	Y	Y	Y	Y	Y
TAME	Y	Y	Y	Y	Y
1,2-Dichloropropane	Y	Y	Y	Y	Y
1,1,2-Trichloroethylene	Y	Y	Y	Y	Y
Bromodichloromethane	Y	Y	Y	Y	Y
Dibromomethane	Y	Y	Y	Y	Y
Cis-1,3-Dichloropropene	Y	Y	Y	Y	Y
Toluene	Y	Y	Y	Y	Y
Trans-1,3-Dichloropropene	Y	Y	Y	Y	Y
1,1,2-Trichloroethane	Y	Y	Y	Y	Y
1,3-Dichloropropane	Y	Y	Y	Y	Y
Tetrachloroethylene	Y	Y	Y	Y	Y
Chlorodibromomethane	Y	Y	Y	Y	Y
1,2-Dibromoethane	Y	Y	Y	Y	Y
Chlorobenzene	Y	Y	Y	Y	Y
1,1,1,2-Tetrachloroethane	Y	Y	Y	Y	Y
Ethylbenzene	Y	Y	Y	Y	Y
Meta/Para-Xylene	Y	Y	Y	Y	Y
Ortho-Xylene	Y	Y	Y	Y	Y
Bromoform	Y	Y	Y	Y	Y
Isopropyl Benzene	Y	Y	Y	Y	Y
1,1,2,2-Tetrachloroethane	Y	Y	Y	Y	Y
1,2,3-Trichloropropane	Y	Y	Y	Y	Y
n-Propylbenzene	Y	Y	Y	Y	Y
Bromobenzene	Y	Y	Y	Y	Y
Meta/Para Ethyltoluene	Y	Y	Y	Y	Y
1,3,5-Trimethylbenzene	Y	Y	Y	Y	Y

	Groundwater	Surface Water	Prepared leachate	Treated Sewage Effluent	Soil
2-Ethyltoluene	Y	Y	Y	Y	Y
Tert-Butylbenzene	Y	Y	Y	Y	Y
1,2,4-Trimethylbenzene	Y	Y	Y	Y	Y
Sec-Butylbenzene	Y	Y	Y	Y	Y
p-Isopropyltoluene	Y	Y	Y	Y	Y
1,2,3-Trimethylbenzene	Y	Y	Y	Y	Y
2-Chlorotoluene	Y	Y	Y	Y	Y
4-Chlorotoluene	Y	Y	Y	Y	Y
1,3-Dichlorobenzene	Y	Y	Y	Y	Y
1,4-Dichlorobenzene	Y	Y	Y	Y	Y
n-Butylbenzene	Y	Y	Y	Y	Y
1,2-Dichlorobenzene	Y	Y	Y	Y	Y
1,2-Dibromo-3-chloropropane	Y	Y	Y	Y	Y
1,2,4-Trichlorobenzene	Y	Y	Y	Y	Y
1,2,3-Trichlorobenzene	Y	Y	Y	Y	N
Hexachlorobutadiene	Y	Y	Y	Y	Y
Naphthalene	Y	Y	Y	Y	N