Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

1964

Accredited to ISO/IEC 17025:2017

Marine Directorate of the Scottish Government

Issue No: 061 **Issue date:** 23 September 2026

Scottish Government
Marine Laboratory
375 Victoria Road
Aberdeen
AB11 9DB

Contact: Pamela Walsham
Tel: +44 (0) 131 244 3543
E-Mail: pamela.walsham@gov.scot
Website: www.gov.scot/topics/marine

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address **Marine Directorate of the Scottish Government** Scottish Government Marine Laboratory 375 Victoria Road Aberdeen AB11 9DB	**Local contact** P Walsham Tel: +44 (0) 131 244 3543	Environmental testing - saline waters - Chemical, microbiological Fish and Shellfish health testing - Microbiological, virological, Molecular Biological	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Marine Directorate of the Scottish Government Scottish Government Freshwater Laboratory Faskally Pitlochry PH16 5LB	Mr A McCartney Tel: +44 (0) 131 244 2335	Environmental testing - natural waters - Chemical	B
Marine Directorate of the Scottish Government Scottish Government Marine Laboratory Mobile Laboratory within Shipping container 375 Victoria Road Aberdeen AB11 9DB	P Walsham Tel: +44 (0) 131 244 3543	Chemical testing of biota and marine and estuarine waters [G1]	C
Marine Directorate of the Scottish Government Aberdeen University Zoology Building Tillydrone Avenue Aberdeen AB24 2TZ	P Walsham Tel: +44 (0) 131 244 3543	Fish and Shellfish Testing	D

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
NATURAL WATERS	Chemical Tests	Documented In-House Procedures	
	Anions: Chloride Nitrate Nitrite Sulphate	MFL100 by ion chromatography	B
Freshwater (surface water)	Cations: Calcium Iron Magnesium Potassium Sodium	MFL600 using ICP-OES	B
	Alkalinity Conductivity pH	MFL060 by autotitration	B
	Monomeric Aluminium	MFL300 by UV-VIS Spectrophotometry	B
	Ions: Ammonium Silicon as Silica Soluble Phosphate	MFL500 by Skalar	B
	Total Soluble Phosphate Total Soluble Nitrogen Dissolved Organic Carbon (DOC)	MFL400 by Skalar	B
SALINE WATERS	Chemical and Physical Tests		
Seawater	Dissolved Oxygen	M0821 by autotitration using Titrando	A
Estuarine and Sea waters	Total Oxidised Nitrogen (Nitrate + Nitrite) Nitrite Orthophosphate Silicate	M0700 Using the Bran & Luebbe QuAAtro Analyser	A, C A, C A, C A, C
Marine phytoplankton	Chlorophyll a	M3000 by Fluorometry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Farmed Fish)	Virological Tests	Documented In-house Procedures	
	Detection of Viral Haemorrhagic Septicaemia (VHS) virus antigen	MVirol 001 by tissue culture and ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Detection of Spring Viraemia of Carp (SVC) virus antigen	MVirol 005 by tissue culture and Testline and BioX ELISAs based on the WOAH Manual of Diagnostic Tests for Aquatic Animals	A
	Detection of Infectious Haematopoietic Necrosis (IHN) virus antigen	MVirol 002 by tissue culture and in-house and / or BioX ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Isolation and detection of Infectious Salmon Anaemia (ISA) virus	MVirol 004 by tissue culture and IFAT. Used in conjunction with QPCR in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Detection of Infectious Pancreatic Necrosis (IPNV) Virus	MVirol 003 by tissue culture and in-house and / or BioX ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Detection of Infectious Salmon Anaemia (ISA) Virus	MVirol006 by Immunohistochemistry based on WOAH Manual of Diagnostic Tests for Aquatic Animals in accordance with Aquatic Animal Health (Scotland) Regulations 2013 which implements EC Directive 2006/88/EC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Shellfish)	Histopathological Tests	Documented In-house Procedures	
	Screening for *Bonamia ostreae* and *Marteilia refringens*	MHIST01, based on WOAHManual of Diagnostic Tests for Aquatic Animals in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC using automated or manual haematoxylin and eosin (H&E) staining and coverslipping	A
VETERINARY (Fish and Shellfish Tissues and Tissue Culture Preparations)	Molecular Biological Tests Screening of RNA Pathogens:		
	Infectious Haematopoietic Necrosis Virus (IHNV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Infectious Pancreatic Necrosis Virus (IPNV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480	A
	Infectious Salmon Anaemia Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on WOAH Manual of Diagnostic Tests for Aquatic Animals in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Piscine Myocarditis Virus (PMCV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish and Shellfish Tissues and Tissue Culture Preparations) (cont'd)	<u>Molecular Biological Tests</u> (cont'd) Screening of RNA Pathogens: (cont'd)	Documented In-house Procedures	
	Piscine orthoreovirus (PRV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009	A
	Salmonid Alpha Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on WOAH Manual of Diagnostic Tests for Aquatic Animals	A
	Viral Haemorrhagic Septicaemia Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on WOAH Manual of Diagnostic Tests for Aquatic Animals in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Screening for DNA of Pathogens and Parasites: *Bonamia* spp. (*Bonamia ostreae* and *Bonamia exitiosa*)	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish, Mollusc and Crustacean Tissues and Tissue Culture preparations) (cont'd)	<u>Molecular Biological Tests</u> (cont'd) Screening for DNA of Pathogens and Parasites: (cont'd)	Documented In-house Procedures	
	Marteilia refringens M and O type	MGEN DNA and supporting procedures by QPCR using the Roche Lightcyler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Oyster Herpesvirus type 1 (OsHV)	MGEN DNA and supporting procedures by QPCR using the Roche LightcyclerLC96 / LC480 in accordance with EC Directive 2006/88/EC	A
	Renibacterium salmoninarum	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 and Commission Decision 2010/221/EC	A
	Salmon gill poxvirus	MGEN DNA and supporting procedures by QPCR using Roche Lightcycler LC96 / LC480	A
	White Spot Syndrome Virus	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 in accordance with Commission Decision 2006/88/EC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish, Mollusc and Crustacean Tissues and Tissue Culture preparations) (cont'd)	<u>Molecular Biological Tests</u> (cont'd) Screening for DNA of Pathogens and Parasites: (cont'd)	Documented In-house Procedures	
	Gyrodactylus parasites (*G. salaris*, *G. derjavinoides*, *G. truttae*)	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Neoparamoeba perurans	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009	A
FISH, CRUSTACEAN, MOLLUSC AND DECAPOD TISSUE	Detection and/or identification of viral and bacterial pathogen and parasite DNA or RNA sequences	MGEN Flexible Scope, SOP 1320 and supporting procedures, by manual or Qiagen (QIAcube) extraction using QPCR and RT-QPCR using the Roche Lightcycler LC96 / LC480 using Flexible Scope	A
	<u>Chemical and Physical Testing</u>		
FISH and SHELLFISH	Total Lipid Content	M0890 Total Lipid Extraction using Smedes method by gravimetry	D
SEDIMENTS	Particle Size Distribution (<100 µm)	M0840 – Laser Diffraction using Automated/Manual by Malvern Mastersizer Granulometer	D
	Determination of Total Organic Carbon	M0860 – Determination of total organic carbon in sediment using the LECO CN828 analyser	D
MARINE SEDIMENT	Poly Aromatic Hydrocarbons (PAHs), specifically: Naphthalene 2-Methylnaphthalene 1-Methylnaphthalene	M0680 - Determination of Various Poly Aromatic Hydrocarbons in Marine Sediment using GC-MS	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARINE SEDIMENT (cont'd)	<u>Chemical and Physical Testing</u> Poly Aromatic Hydrocarbons (PAHs), specifically (cont'd): C2 Naphthalene – calculated as 2,6-Dimethylnaphthalene C3 Naphthalenes – calculated as 2,3,5-Trimethylnaphthalene Phenanthrene Anthracene C1-178 calculated as 2-Methylphenanthrene C2-178 calculated from 3,6-Dimethylphenanthrene Dibenzothiophene C1-DBT calculated as 4-Methyldibenzothiophene Fluoranthene Pyrene C1-202 – calculated as 1-Methylfluoranthene Benz[a]anthracene Chrysene C1-228 calculated as 2-Methylchrysene Total Benzofluoranthenes - calculated as Benzo[k]fluoranthene Benzo[e]pyrene Benzo[a]pyrene Perylene Indenopyrene Benzoperylene Acenaphthene Fluorene Dibenz[a,h]anthracene	Documented In-house Procedures M0680 - Determination of Various Poly Aromatic Hydrocarbons in Marine Sediment using GC-MS	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BIOTA (Marine Mussel)	<u>Chemical and Physical Testing</u> Poly Aromatic Hydrocarbons (PAHs), specifically: Naphthalene 2-Methylnaphthalene 1-Methylnaphthalene Phenanthrene Anthracene C1-178 calculated from 2-Methylphenanthrene C2-178 calculated from 3,6-Dimethylphenanthrene Dibenzothiophene Fluoranthene Pyrene Benz[a]anthracene Chrysene Total Benzofluoranthenes - calculated as Benzo[k]fluoranthene Benzo[e]pyrene Benzo[a]pyrene Indenopyrene Benzoperylene Acenaphthene Fluorene Dibenz[a,h]anthracene	Documented In-house Procedures M0690 - Determination of Various Poly Aromatic Hydrocarbons in Marine Mussel Samples (Biota) using GC-MS	D
END			