Schedule of Accreditation

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UKAS TESTING **4040** **Accredited to ISO/IEC 17025:2017**	**Department of Agriculture, Environment and Rural Affairs (NI)** **Issue No:** 055 **Issue date:** 11 September 2026	
	Environment, Marine and Fisheries Group Laboratory **17 Antrim Road** **Lisburn** **Co Antrim** **Northern Ireland** **BT28 3AL**	**Contact: Claire Parke** **Tel: +44 (0) 28 9262 3049** **E-Mail: quality.lisburn@daera-ni.gov.uk** **Website: www.daera-ni.gov.uk**

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 17 Antrim Road Lisburn Co Antrim Northern Ireland BT28 3AL	**Local contact** Tel: +44 (0)28 9262 3049 E-Mail: quality.lisburn@daera-ni.gov.uk	**Support Functions:** Quality System Quality Audit Administration **Sampling And Testing:** Environmental Analysis Water Sampling Physical Testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Rivers/Streams	Sampling and on-site testing	B
Landfill Sites	Sampling and on-site testing	C
Industrial Premises	Sampling and on-site testing	D
Freshwater Lakes	Sampling and on-site testing	F
Marine Waters	Sampling	G

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS	Chemical and Physical Tests		
Surface Water, Ground Water, Treated Sewage Effluent, Landfill Leachate and Trade Effluent	Conductivity	Documented in-house procedure M0387 based on DOE/SCA (MEWAM) The measurement of Electrical Conductivity and the Laboratory determination of the pH Value of Natural, Treated and Wastewaters (1978) using Conductivity meter	A
Surface Water, Ground Water, Untreated Sewage, Treated Sewage Effluent, Landfill Leachate and Trade Effluent	pH	Documented in-house procedure M0387 based on DOE/SCA (MEWAM) The measurement of Electrical Conductivity and the Laboratory determination of the pH Value of Natural, Treated and Wastewaters (1978) using pH meter	A
Surface Water	Dissolved Oxygen	Documented in-house procedure M0165 based on DOE/SCA (MEWAM) Dissolved Oxygen in Natural and Waste Waters (1979) using Manual Titration	A
Surface Water, Wastewaters and Trade Effluent	Biochemical Oxygen Demand (BOD)	Documented in-house procedure M0145 using Rohasys robot	A
Surface Water	Dissolved Organic Carbon (Non-Purgeable Organic Carbon)	Documented in-house procedure M0455 by high temperature catalytic combustion and infrared detection	A
Ground Water	Total Organic Carbon	Documented in-house procedure M0455 by high temperature catalytic combustion and infrared detection	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
Surface Water, Wastewaters and Trade Effluent	Suspended Solids	Documented in-house procedure M0152 based on DOE/SCA (MEWAM) Suspended, Settleable, and Total Dissolved Solids in Waters and Effluents (1980) using Robotic weighing after conventional filtration	A
Wastewaters	Chloride	Documented in-house procedure M0173 by silver coulometry	A
Waste Water	Metals, Dissolved Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Sodium Nickel Lead Sulphur Zinc Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 1	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
River Water and Landfill Site Borehole Ground Water	Metals, Total and Dissolved Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Sodium Nickel Lead Sulphur Zinc Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 1	A
Industrial Effluent	Metals, Total and Dissolved Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Nickel Lead Sulphur Zinc Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 1	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
River Water (containing no appreciable solids) and Ground Water (from extraction wells only)	Metals, Total and Dissolved Aluminium Boron Barium Calcium Iron Lithium Potassium Magnesium Manganese Sodium Sulphur Strontium Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 2	A
Surface Water, Ground Water, Landfill Leachate, Trade Effluent, Untreated Sewage Effluent and Treated Sewage Effluent	pH	Documented in-house method M0463 by robotic analyser	A
Surface Water, Ground Water and Landfill Leachate	Electrical Conductivity	Documented in-house method M0463 by robotic analyser	A
Sea Water and Estuarine Water	Ammonia Total Oxidised Nitrogen Nitrate (by calculation) Nitrite Silicate Soluble Reactive Phosphate	Documented in-house method M0458 by segemented flow analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
Surface Water and Ground Water	Metals, Total and Dissolved: Antimony Arsenic Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Vanadium Zinc	Documented in-house procedure M0405 by ICP-MS	A
Surface Water, Ground Water and Trade Effluent.	Metals, Total and Dissolved: Silver	Documented in-house procedure M0405 by ICP-MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
Ground Water	Metals, Total: Antimony Arsenic Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Silver Vanadium Zinc	Documented in-house procedure M0405 by ICP-MS	A
Ground Water	Metals, Dissolved: Antimony Beryllium Cobalt Molybdenum Selenium	Documented in-house procedure M0405 by ICP-MS	A
Surface Water	Dissolved and Total Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	A
Marine Water	Dissolved Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	A
Treated Sewage Effluent and Trade Effluent	Total Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	A
Trade Effluent and Landfill Leachates	Ammonia	Documented in-house procedure M0172 by steam distillation and automated titrimetry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
Surface Water	Soluble Reactive Phosphorus Ammonia Chloride	Documented in-house procedure M0456 by discrete colorimetric analysis	A
Groundwater	Chloride	Documented in-house procedure M0456 by discrete colorimetric analysis	A
Surface Water & Groundwater	Total Oxidized Nitrogen (TON) Nitrate (by calculation) Nitrite Soluble Reactive Phosphorus Ammonia	Documented in-house procedure M0374 by segmented flow analyser	A
Trade Effluent	Total Phosphorus	Documented in-house procedure M0457 by discrete colorimetric analysis	A
Trade Effluent	Ammonia	Documented in-house procedure M0374 by segmented flow analyser	A
Surface Water	Total Hardness	Documented in-house procedure M0316 by titrimetry	A
Groundwater	Fluoride	Documented in-house procedure M0399 by Ion Selective Electrode	A
Surface Water, Groundwater and Landfill Leachate	Total Alkalinity	Documented in-house procedure M0297 by titrimetry	A
Surface Water, Effluents and Groundwater	Field Measurement of pH	Documented in-house procedure M0016	B, C, D
Surface Water	Total Hardness	Documented in-house procedure M0454 by automated titrimetry	A
Surafce Water and Groundwater	Total Alkalinity	Documented in-house procedure M0454 by automated titrimetry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	Chemical and Physical Tests (cont'd)		
Surface and Ground Waters	VOCs: Chloroform, 1,2-Dichloroethane, 1,1,1-Trichloromethane Carbon Tetrachloride 1,2-Dichloropropane Bromodichloromethane Trichloroethene cis 1,3-Dichloropropene trans, 1,3-Dichloropropene 1,1,2-Trichloroethane Dibromochloromethane Tetrachloroethene Chlorobenzene Bromoform, cis 1,4-Dichlorobutene 1,1,2,2-Tetrachloroethane trans 1,4-Dichlorobutene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene, Hexachloroethane 1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene	Documented in-house procedure M0431 by liquid/liquid extraction and GC-MS	A
Surface and Ground Waters	Pentane Hexane Heptane Octane Nonane Decane Dichloromethane Benzene Toluene Ethylbenzene m+p-Xylene o-Xylene Cumene n-Propylbenzene Mesitylene o-Ethyltoluene	Documented in-house procedure M0426 by HS-GC-MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical and Physical Tests		
Freshwater Rivers and Streams Groundwater Effluents	Manual Sampling of Freshwater and Effluents for subsequent chemical analysis	Documented in-house procedure M0106	B, C, D
Marine and Inland Surface Waters	Manual sampling of marine and inland surface waters for subsequent microbiological analysis	Documented in-house procedure M0315	B, F, G
Surface Water, Landfill Leachates and Trade Effluent	Chemical Oxygen Demand (COD)	Documented in-house procedure M0411 by spectrophotometry	A
POLLUTANTS AND EFFLUENTS	Chemical and Physical Tests		
	Sampling		
	Manual spot sampling of groundwater from boreholes for landfill leachate impact assessment	Documented in-house procedure M0109	C, D
	Microbiological Tests		
Saline Water and Surface Water	Enumeration:		
	Enterococci	Documented in-house procedure M0269 by membrane filtration	A
Surface Water and Saline Water	E. coli	Documented in-house procedure M0375 by membrane filtration, using TBX media	A
END			