



WATER AND ENVIRONMENTAL CHEMISTRY

Proficiency Test List - GBP

Jan 2021 - Mar 2022

V2 October 2020



Original thinking... applied

Changes in this version (V2)

Change made	Details	Page(s)
EMY42 + EMY43	Approx. size updated to 3 x 1 litre + 250 ml + blanks + 500 ml	4
Notes page added	Added for printing purposes	33

WATER & ENVIRONMENTAL CHEMISTRY PROFICIENCY TESTS

Modern analytical techniques are allowing us to detect chemicals in water at ever decreasing concentrations, and this is changing our understanding of the pollutants that may be present in the environment, which can consequently be an issue for our drinking water. Regular monitoring of these diverse water types is required by governmental regulation to ensure the safety of the water we drink and the environment we live in.

Our extensive programme covers a wide range of water types including, drinking, waste, high salinity, and surface waters, and is complemented by schemes for emergency chemical contamination, taste and odour chemical identification, and soil chemistry.

Quantity discounts (for materials purchased in a single order)

Quantity Purchased	Discount Applied
For product codes starting DWC	
11 - 25 tests	10%
26 or more	25%
For product codes starting WW	
21 - 34 tests	10%
35 - 44 tests	15%
45 or more tests	25%

Note: The information in this price list is designed to assist you in choosing proficiency tests to meet your needs. Whilst every care has been taken in producing this information, we do not guarantee its accuracy. The Fapas® website is the definitive source of information about our proficiency tests. Orders are subject to the Fapas® terms and conditions, which are available on our website. Please check the website before placing your order.

For typical analyte ranges, please see pages 17 - 29

DRINKING WATER

Acid Herbicides

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0911	Drinking Water	Acid Herbicides	FWAH1-DRW1	1 litre + spiking conc.	27/04/2021	221
DWC0912	Drinking Water	Acid Herbicides	FWAH1-DRW1	1 litre + spiking conc.	05/10/2021	221

BTEX

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1120	Drinking Water	BTEX	FWBT1-DRW1	1 litre + spiking conc.	16/02/2021	184
DWC1121	Drinking Water	BTEX	FWBT1-DRW1	1 litre + spiking conc.	27/04/2021	190
DWC1122	Drinking Water	BTEX	FWBT1-DRW1	1 litre + spiking conc.	06/07/2021	190

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1123	Drinking Water	BTEX	FWBT1-DRW1	1 litre + spiking conc.	05/10/2021	190
DWC1124	Drinking Water	BTEX	FWBT1-DRW1	1 litre + spiking conc.	15/02/2022	190

Chlorine

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1219	Drinking Water (Standard Concentrate)	Chlorine	FWCH1-DRW1	3 ml	16/03/2021	84
DWC1220	Drinking Water (Standard Concentrate)	Chlorine	FWCH1-DRW1	3 ml	18/05/2021	87
DWC1221	Drinking Water (Standard Concentrate)	Chlorine	FWCH1-DRW1	3 ml	27/07/2021	87
DWC1222	Drinking Water (Standard Concentrate)	Chlorine	FWCH1-DRW1	3 ml	16/11/2021	87
DWC1223	Drinking Water (Standard Concentrate)	Chlorine	FWCH1-DRW1	3 ml	15/03/2022	87

Contamination Incident (Emergency Scheme)

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
EMY42	Drinking Water	Contamination incident	FWEM1-DRW1	3 x 1 litre + 250 ml + blanks + 500 ml	06/05/2021	695
EMY43	Drinking Water	Contamination incident	FWEM1-DRW1	3 x 1 litre + 250 ml + blanks + 500 ml	30/09/2021	695

Fluorosurfactants (PFOS & PFOA)

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1904	Drinking Water (Standard Concentrate)	Fluorosurfactants (PFOS & PFOA)	FWFL1-DRW1	spiking conc.	16/02/2021	126
DWC1905	Drinking Water (Standard Concentrate)	Fluorosurfactants (PFOS & PFOA)	FWFL1-DRW1	spiking conc.	06/07/2021	130
DWC1906	Drinking Water (Standard Concentrate)	Fluorosurfactants (PFOS & PFOA)	FWFL1-DRW1	spiking conc.	15/02/2022	130

Haloacetic Acids

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1709	Drinking Water (Ultra Pure Water)	Haloacetic Acids	FWHA1-DRW1	1 litre + spiking conc.	25/05/2021	221
DWC1710	Drinking Water (Ultra Pure Water)	Haloacetic Acids	FWHA1-DRW1	1 litre + spiking conc.	09/11/2021	221

Hexavalent Chromium

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1812	Drinking Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-DRW1	20 ml	16/03/2021	95
DWC1813	Drinking Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-DRW1	20 ml	18/05/2021	98
DWC1814	Drinking Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-DRW1	20 ml	27/07/2021	98
DWC1815	Drinking Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-DRW1	20 ml	16/11/2021	98
DWC1816	Drinking Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-DRW1	20 ml	15/03/2022	98

Inorganic Disinfection By-products

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0519	Drinking Water (Standard Solution)	Inorganic Disinfection By-products	FWID1-DRW1	125 ml	16/03/2021	143
DWC0520	Drinking Water (Standard Solution)	Inorganic Disinfection By-products	FWID1-DRW1	125 ml	18/05/2021	147
DWC0521	Drinking Water (Standard Solution)	Inorganic Disinfection By-products	FWID1-DRW1	125 ml	27/07/2021	147
DWC0522	Drinking Water (Standard Solution)	Inorganic Disinfection By-products	FWID1-DRW1	125 ml	16/11/2021	147
DWC0523	Drinking Water (Standard Solution)	Inorganic Disinfection By-products	FWID1-DRW1	125 ml	15/03/2022	147

Major Inorganic Components

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0129	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	26/01/2021	96
DWC0130	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	16/03/2021	96

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0131	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	18/05/2021	99
DWC0132	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	27/07/2021	99
DWC0133	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	28/09/2021	99
DWC0134	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	16/11/2021	99
DWC0135	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	25/01/2022	99
DWC0136	Drinking Water	Major Inorganic Components	FWIC1-DRW1	1 litre + spiking conc.	15/03/2022	99

Note: If you purchase the major inorganic components sample and the corresponding routine component sample in the same round,(such as DWC0129 and DWC0229) you will receive only ONE litre of water and ONE spiking concentrate.

Non-Routine Metals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0419	Drinking Water (Ultra Pure Water)	Non-Routine Metals	FWNM1-DRW1	1 x 60 ml, 1 x 500 ml + spiking conc.	16/03/2021	209
DWC0420	Drinking Water (Ultra Pure Water)	Non-Routine Metals	FWNM1-DRW1	1 x 60 ml, 1 x 500 ml + spiking conc.	18/05/2021	215
DWC0421	Drinking Water (Ultra Pure Water)	Non-Routine Metals	FWNM1-DRW1	1 x 60 ml, 1 x 500 ml + spiking conc.	27/07/2021	215
DWC0422	Drinking Water (Ultra Pure Water)	Non-Routine Metals	FWNM1-DRW1	1 x 60 ml, 1 x 500 ml + spiking conc.	16/11/2021	215
DWC0423	Drinking Water (Ultra Pure Water)	Non-Routine Metals	FWNM1-DRW1	1 x 60 ml, 1 x 500 ml + spiking conc.	15/03/2022	215

OC Pesticides

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1020	Drinking Water	OC Pesticides	FWOC1-DRW1	1 litre + spiking conc.	16/02/2021	184
DWC1021	Drinking Water	OC Pesticides	FWOC1-DRW1	1 litre + spiking conc.	27/04/2021	190
DWC1022	Drinking Water	OC Pesticides	FWOC1-DRW1	1 litre + spiking conc.	06/07/2021	190
DWC1023	Drinking Water	OC Pesticides	FWOC1-DRW1	1 litre + spiking conc.	05/10/2021	190
DWC1024	Drinking Water	OC Pesticides	FWOC1-DRW1	1 litre + spiking conc.	15/02/2022	190

OP Pesticides

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0820	Drinking Water	OP Pesticides	FWOP1-DRW1	1 litre + spiking conc.	23/02/2021	184
DWC0821	Drinking Water	OP Pesticides	FWOP1-DRW1	1 litre + spiking conc.	25/05/2021	190
DWC0822	Drinking Water	OP Pesticides	FWOP1-DRW1	1 litre + spiking conc.	03/08/2021	190
DWC0823	Drinking Water	OP Pesticides	FWOP1-DRW1	1 litre + spiking conc.	09/11/2021	190
DWC0824	Drinking Water	OP Pesticides	FWOP1-DRW1	1 litre + spiking conc.	22/02/2022	190

Perchlorate

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC2004	Drinking Water (Standard Concentrate)	Perchlorate	FWPE1-DRW1	2 ml	16/03/2021	89
DWC2005	Drinking Water (Standard Concentrate)	Perchlorate	FWPE1-DRW1	2 ml	28/09/2021	92
DWC2006	Drinking Water (Standard Concentrate)	Perchlorate	FWPE1-DRW1	2 ml	15/03/2022	92

Polycyclic Aromatic Hydrocarbons (PAHs)

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0720	Drinking Water	Polycyclic Aromatic Hydrocarbons	FWPC1-DRW1	1 litre + spiking conc.	23/02/2021	184
DWC0721	Drinking Water	Polycyclic Aromatic Hydrocarbons	FWPC1-DRW1	1 litre + spiking conc.	25/05/2021	190
DWC0722	Drinking Water	Polycyclic Aromatic Hydrocarbons	FWPC1-DRW1	1 litre + spiking conc.	03/08/2021	190
DWC0723	Drinking Water	Polycyclic Aromatic Hydrocarbons	FWPC1-DRW1	1 litre + spiking conc.	09/11/2021	190
DWC0724	Drinking Water	Polycyclic Aromatic Hydrocarbons	FWPC1-DRW1	1 litre + spiking conc.	22/02/2022	190

Routine Components

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0229	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	26/01/2021	99
DWC0230	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	16/03/2021	99
DWC0231	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	18/05/2021	99
DWC0232	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	27/07/2021	99
DWC0233	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	28/09/2021	99
DWC0234	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	16/11/2021	99

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0235	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	25/01/2022	99
DWC0236	Drinking Water	Routine Components	FWRC1-DRW1	1 litre + spiking conc.	15/03/2022	99

See note on p5 for purchases of routine components and major inorganic components in the same round.

Routine Metals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0329	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	26/01/2021	143
DWC0330	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	16/03/2021	143
DWC0331	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	18/05/2021	147
DWC0332	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	27/07/2021	147
DWC0333	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	28/09/2021	147
DWC0334	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	16/11/2021	147
DWC0335	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	25/01/2022	147
DWC0336	Drinking Water	Routine Metals	FWRM1-DRW1	500 ml	15/03/2022	147

Taste & Odour Chemical Identification (NOT for organoleptic testing)

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
TOCHEM10	Drinking Water	Taste & Odour Chemical Identification	FWTO1-DRW1	2 x 1 litre + blank	15/07/2021	530

Total Cyanide

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1619	Drinking Water (Standard Concentrate)	Total Cyanide	FWTC1-DRW1	3 ml	16/03/2021	84
DWC1620	Drinking Water (Standard Concentrate)	Total Cyanide	FWTC1-DRW1	3 ml	18/05/2021	87
DWC1621	Drinking Water (Standard Concentrate)	Total Cyanide	FWTC1-DRW1	3 ml	27/07/2021	87
DWC1622	Drinking Water (Standard Concentrate)	Total Cyanide	FWTC1-DRW1	3 ml	16/11/2021	87
DWC1623	Drinking Water (Standard Concentrate)	Total Cyanide	FWTC1-DRW1	3 ml	15/03/2022	87

Triazines and Urea Herbicides

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC1510	Drinking Water	Triazines and Urea Herbicides	FWTU1-DRW1	1 litre + spiking conc.	16/02/2021	215
DWC1511	Drinking Water	Triazines and Urea Herbicides	FWTU1-DRW1	1 litre + spiking conc.	06/07/2021	221
DWC1512	Drinking Water	Triazines and Urea Herbicides	FWTU1-DRW1	1 litre + spiking conc.	15/02/2022	221

Trihalomethanes / Chlorinated Solvents

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC0620	Drinking Water (Ultra Pure Water)	Trihalomethanes / Chlorinated Solvents	FWTR1-DRW1	1 litre + spiking conc.	23/02/2021	184
DWC0621	Drinking Water (Ultra Pure Water)	Trihalomethanes / Chlorinated Solvents	FWTR1-DRW1	1 litre + spiking conc.	25/05/2021	190
DWC0622	Drinking Water (Ultra Pure Water)	Trihalomethanes / Chlorinated Solvents	FWTR1-DRW1	1 litre + spiking conc.	03/08/2021	190
DWC0623	Drinking Water (Ultra Pure Water)	Trihalomethanes / Chlorinated Solvents	FWTR1-DRW1	1 litre + spiking conc.	09/11/2021	190
DWC0624	Drinking Water (Ultra Pure Water)	Trihalomethanes / Chlorinated Solvents	FWTR1-DRW1	1 litre + spiking conc.	22/02/2022	190

Uranium

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
DWC2105	Drinking Water (Standard Solution)	Uranium	FWUR1-DRW1	60 ml	27/07/2021	87
DWC2106	Drinking Water (Standard Solution)	Uranium	FWUR1-DRW1	60 ml	16/11/2021	87

HIGH SALINITY WATER

Complex Nutrients

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
HS0112	High Salinity Water	Complex Nutrients	FWCN1-HSW1	500 ml	08/06/2021	173
HS0113	High Salinity Water	Complex Nutrients	FWCN1-HSW1	500 ml	30/11/2021	173

Minerals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
HS0312	High Salinity Water	Minerals	FWMI1-HSW1	500 ml	08/06/2021	205
HS0313	High Salinity Water	Minerals	FWMI1-HSW1	500 ml	30/11/2021	205

Simple Nutrients

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
HS0212	High Salinity Water	Simple Nutrients	FWSN1-HSW1	500 ml	08/06/2021	173
HS0213	High Salinity Water	Simple Nutrients	FWSN1-HSW1	500 ml	30/11/2021	173

Trace Metals 3

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
HS0412	High Salinity Water	Trace Metals 3	FWTM3-HSW1	500 ml	08/06/2021	173
HS0413	High Salinity Water	Trace Metals 3	FWTM3-HSW1	500 ml	30/11/2021	173

Trace Metals 4

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
HS0512	High Salinity Water	Trace Metals 4	FWTM4-HSW1	500 ml	08/06/2021	173
HS0513	High Salinity Water	Trace Metals 4	FWTM4-HSW1	500 ml	30/11/2021	173

SOIL

Trace Metals 5

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
SL0108	Soil	Trace Metals 5	FWTM5-SOI1	6 g	07/10/2021	174

SURFACE WATER

Major Inorganic Compounds

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
SW0111	Surface Water	Major Inorganic Components	FWIC1-SUW1	1 litre + spiking conc.	02/02/2021	93
SW0112	Surface Water	Major Inorganic Components	FWIC1-SUW1	1 litre + spiking conc.	22/06/2021	96
SW0113	Surface Water	Major Inorganic Components	FWIC1-SUW1	1 litre + spiking conc.	01/02/2022	96

Note: If you purchase the major inorganic components sample and the corresponding routine component sample in the same round,(such as SW0111 and SW0211) you will receive only ONE litre of water and ONE spiking concentrate.

Metals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
SW0311	Surface Water	Metals	FWME1-SUW1	500 ml + Standard Sol	02/02/2021	178
SW0312	Surface Water	Metals	FWME1-SUW1	500 ml + Standard Sol	22/06/2021	183
SW0313	Surface Water	Metals	FWME1-SUW1	500 ml + Standard Sol	01/02/2022	183

Routine Components

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
SW0211	Surface Water	Routine Components	FWRC1-SUW1	1 litre + spiking conc.	02/02/2021	93
SW0212	Surface Water	Routine Components	FWRC1-SUW1	1 litre + spiking conc.	22/06/2021	96
SW0213	Surface Water	Routine Components	FWRC1-SUW1	1 litre + spiking conc.	01/02/2022	96

See note above for purchases of routine components and major inorganic components in the same round.

Toxic Metals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
SW0411	Surface Water	Toxic Metals	FWTX1-SUW1	500 ml + spiking conc.	02/02/2021	203
SW0412	Surface Water	Toxic Metals	FWTX1-SUW1	500 ml + spiking conc.	22/06/2021	209
SW0413	Surface Water	Toxic Metals	FWTX1-SUW1	500 ml + spiking conc.	01/02/2022	209

WASTE WATER

Anions

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0928	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	09/02/2021	69
WW0929	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	21/04/2021	71
WW0930	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	15/06/2021	71
WW0931	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	10/08/2021	71
WW0932	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	12/10/2021	71
WW0933	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	07/12/2021	71
WW0934	Waste Water (Standard Concentrate)	Anions	FWAN1-EWW1	20 ml	09/02/2022	71

Dissolved Oxygen

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1428	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	09/02/2021	87
WW1429	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	21/04/2021	90
WW1430	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	15/06/2021	90
WW1431	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	10/08/2021	90
WW1432	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	12/10/2021	90

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1433	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	07/12/2021	90
WW1434	Waste Water (Standard Concentrate)	Dissolved Oxygen	FWDO1-EWW1	2 ml	09/02/2022	90

Hexavalent Chromium

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0728	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	09/02/2021	72
WW0729	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	21/04/2021	74
WW0730	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	15/06/2021	74
WW0731	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	10/08/2021	74
WW0732	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	12/10/2021	74
WW0733	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	07/12/2021	74
WW0734	Waste Water (Standard Concentrate)	Hexavalent Chromium	FWHC1-EWW1	20 ml	09/02/2022	74

Minerals

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0828	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	09/02/2021	66
WW0829	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	21/04/2021	68
WW0830	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	15/06/2021	68
WW0831	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	10/08/2021	68
WW0832	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	12/10/2021	68
WW0833	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	07/12/2021	68
WW0834	Waste Water (Standard Concentrate)	Minerals	FWMI1-EWW1	2 x 20 ml	09/02/2022	68

Nutrients

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0328	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	09/02/2021	94
WW0329	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	21/04/2021	97
WW0330	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	15/06/2021	97
WW0331	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	10/08/2021	97
WW0332	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	12/10/2021	97
WW0333	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	07/12/2021	97
WW0334	Waste Water (Standard Concentrate)	Nutrients	FWNU1-EWW1	4 x 60 ml	09/02/2022	97

Oil & Grease

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1028	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	09/02/2021	60
WW1029	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	21/04/2021	62
WW1030	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	15/06/2021	62
WW1031	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	10/08/2021	62
WW1032	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	12/10/2021	62
WW1033	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	07/12/2021	62
WW1034	Waste Water (Standard Concentrate)	Oil & Grease	FWOG1-EWW1	2 ml	09/02/2022	62

Oxygen Demand

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0128	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	09/02/2021	77
WW0129	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	21/04/2021	79
WW0130	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	15/06/2021	79
WW0131	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	10/08/2021	79
WW0132	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	12/10/2021	79
WW0133	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	07/12/2021	79
WW0134	Waste Water (Standard Concentrate)	Oxygen Demand	FWDE1-EWW1	20 ml	09/02/2022	79

pH & Electrical Conductivity

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0428	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	09/02/2021	81
WW0429	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	21/04/2021	83
WW0430	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	15/06/2021	83
WW0431	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	10/08/2021	83
WW0432	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	12/10/2021	83
WW0433	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	07/12/2021	83
WW0434	Waste Water (Standard Solution)	pH & Electrical Conductivity	FWPH1-EWW1	2 x 125 ml	09/02/2022	83

Phthalates

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1607	Waste Water (Standard Concentrate)	Phthalates (Environmental)	FWPT1-EWW1	2 ml	15/06/2021	99
WW1608	Waste Water (Standard Concentrate)	Phthalates (Environmental)	FWPT1-EWW1	2 ml	07/12/2021	99

Residues

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0228	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	09/02/2021	87
WW0229	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	21/04/2021	90
WW0230	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	15/06/2021	90
WW0231	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	10/08/2021	90
WW0232	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	12/10/2021	90
WW0233	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	07/12/2021	90
WW0234	Waste Water (Standard Solution)	Residues	FWRE1-EWW1	500 ml	09/02/2022	90

Settleable Solids

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1328	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	09/02/2021	94
WW1329	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	21/04/2021	97
WW1330	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	15/06/2021	97
WW1331	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	10/08/2021	97
WW1332	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	12/10/2021	97

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1333	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	07/12/2021	97
WW1334	Waste Water (requires dilution)	Settleable Solids	FWSS1-EWW1	25 g	09/02/2022	97

Total Cyanide

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1128	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	09/02/2021	77
WW1129	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	21/04/2021	79
WW1130	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	15/06/2021	79
WW1131	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	10/08/2021	79
WW1132	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	12/10/2021	79
WW1133	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	07/12/2021	79
WW1134	Waste Water (Standard Concentrate)	Total Cyanide	FWTC1-EWW1	2 ml	09/02/2022	79

Total Sulphide

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1228	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	09/02/2021	94
WW1229	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	21/04/2021	97
WW1230	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	15/06/2021	97
WW1231	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	10/08/2021	97
WW1232	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	12/10/2021	97
WW1233	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	07/12/2021	97
WW1234	Waste Water (Standard Concentrate)	Total Sulphide	FWTS1-EWW1	20 ml	09/02/2022	97

Trace Metals 1

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0528	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	09/02/2021	108
WW0529	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	21/04/2021	111
WW0530	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	15/06/2021	111
WW0531	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	10/08/2021	111
WW0532	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	12/10/2021	111
WW0533	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	07/12/2021	111
WW0534	Waste Water (Standard Concentrate)	Trace Metals 1	FWTM1-EWW1	20 ml	09/02/2022	111

Trace Metals 2

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW0628	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	09/02/2021	102
WW0629	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	21/04/2021	105
WW0630	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	15/06/2021	105
WW0631	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	10/08/2021	105
WW0632	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	12/10/2021	105
WW0633	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	07/12/2021	105
WW0634	Waste Water (Standard Concentrate)	Trace Metals 2	FWTM2-EWW1	20 ml	09/02/2022	105

VOCs

Item Code	Matrix	Analytes	Product Code	Approx. Size	Start Date	Fee (GBP)
WW1528	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	09/02/2021	96
WW1529	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	21/04/2021	99
WW1530	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	15/06/2021	99
WW1531	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	10/08/2021	99
WW1532	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	12/10/2021	99
WW1533	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	07/12/2021	99
WW1534	Waste Water (Standard Concentrate)	VOC	FWVO1-EWW1	2 ml	09/02/2022	99

WATER & ENVIRONMENTAL CHEMISTRY PROFICIENCY TESTS - APPROXIMATE CONCENTRATION RANGES

DRINKING WATER

Acid Herbicides (group 9)

Product Code	Matrix	Analytes	Approx. Range	Units
FWAH1-DRW1	Drinking Water	MCPA	0.01 - 0.15	µg/l
		MCPB	0.01 - 0.15	µg/l
		2,4-D	0.01 - 0.15	µg/l
		dichlorprop	0.01 - 0.15	µg/l
		dicamba,	0.01 - 0.15	µg/l
		2,4-DB	0.01 - 0.15	µg/l
		bentazone	0.01 - 0.15	µg/l
		mecoprop	0.01 - 0.15	µg/l
		propyzamide	0.01 - 0.15	µg/l
		ioxynil	0.01 - 0.15	µg/l
		bromoxynil	0.01 - 0.15	µg/l
		triclopyr	0.01 - 0.15	µg/l
		clopyralid	0.01 - 0.15	µg/l
		fluroxypyr	0.01 - 0.15	µg/l
		2,3,6-TBA	0.01 - 0.15	µg/l
		2,4,5-T	0.01 - 0.15	µg/l
		dichlobenil	0.01 - 0.15	µg/l
bromacil	0.01 - 0.15	µg/l		
metazachlor	0.01 - 0.15	µg/l		
propachlor	0.01 - 0.15	µg/l		
benazolin	0.01 - 0.15	µg/l		
metaldehyde	0.01 - 0.15	µg/l		

BTEX (group 11)

Product Code	Matrix	Analytes	Approx. Range	Units
FWBT1-DRW1	Drinking Water	benzene	0.1 - 1.5	µg/l
		toluene	0.2 - 4.0	µg/l
		ethylbenzene	0.2 - 4.0	µg/l
		styrene	0.2 - 4.0	µg/l
		o-xylene	0.2 - 4.0	µg/l
		m-xylene	0.2 - 4.0	µg/l
		p-xylene	0.2 - 4.0	µg/l
		m+p xylene	0.2 - 8.0	µg/l
		total xylene	0.5 - 12.0	µg/l

Chlorine (group 12)

Product Code	Matrix	Analytes	Approx. Range	Units
FWCH1-DRW1	Standard concentrate	chlorine (total)	0.5 - 3.0	mg/l
		chlorine (free)	0.5 - 3.0	mg/l

Emergency contamination incident (no group)

Product Code	Matrix	Analytes	Approx. Range	Units
FWEM1-DRW1	Drinking Water	not set - blind sample	not set	not set

Fluorosurfactants (PFOS & PFOA, group 19)

Product Code	Matrix	Analytes	Approx. Range	Units
FWFL1-DRW1	Standard concentrate	perfluorooctane sulfonic acid PFOS	0.2 - 5.0	µg/l
		perfluorooctanoic acid PFOA	0.2 - 10.0	µg/l

Haloacetic Acids (group 17)

Product Code	Matrix	Analytes	Approx. Range	Units
FWHA1-DRW1	Drinking Water	monochloroacetic acid (MCA)	5.0 - 50.0	µg/l
		dichloroacetic acid (DCA)	5.0 - 50.0	µg/l
		trichloroacetic acid (TCA)	5.0 - 50.0	µg/l
		monobromoacetic acid (MBA)	5.0 - 50.0	µg/l
		dibromoacetic acid (DBA)	5.0 - 50.0	µg/l

Hexavalent Chromium (group 18)

Product Code	Matrix	Analytes	Approx. Range	Units
FWHC1-DRW1	Standard concentrate	hexavalent chromium	5.0 - 50.0	µg/l

Inorganic Disinfection By-products (group 5)

Product Code	Matrix	Analytes	Approx. Range	Units
FWID1-DRW1	Standard Solution in ultra pure water	bromide	5.0 - 200	µg/l
		bromate	1.0 - 20.0	µg/l
		chlorite	1.0 - 100	µg/l
		chlorate	1.0 - 1000	µg/l

Major Inorganic Components (group 1)

Product Code	Matrix	Analytes	Approx. Range	Units
FWIC1-DRW1	Drinking Water	sodium	5.0 - 50.0	mg/l
		potassium	0.3 - 3.0	mg/l
		chloride	6.0 - 50.0	mg/l
		calcium	10.0 - 150	mg/l
		magnesium	1.0 - 15.0	mg/l
		alkalinity HCO ₃	30.0 - 300	mg/l
		total hardness Ca	30.0 - 130	mg/l
		total phosphorus P	100 - 3000	µg/l
		fluoride	150 - 1800	µg/l
		sulphate	8.0 - 100	mg/l

Non-Routine Metals (group 4)

Product Code	Matrix	Analytes	Approx. Range	Units
FWNM1-DRW1	Drinking Water	mercury	0.1 - 2.0	µg/l
		barium	100 - 1000	µg/l
		boron	200 - 1500	µg/l
		arsenic	1.0 - 15.0	µg/l
		selenium	1.0 - 15.0	µg/l
		antimony	0.5 - 7.5	µg/l
		silver	1.0 - 20.0	µg/l
		strontium	50.0 - 500	µg/l
		lithium	10.0 - 100	µg/l
		cobalt	3.0 - 30.0	µg/l
		vanadium	3.0 - 30.0	µg/l
		molybdenum	3.0 - 30.0	µg/l
		tin	3.0 - 100	µg/l
		beryllium	3.0 - 10.0	µg/l

OC Pesticides (group 10)

Product Code	Matrix	Analytes	Approx. Range	Units
FWOC1-DRW1	Drinking Water	endrin	0.01 - 0.15	µg/l
		dieldrin	0.006 – 0.05	µg/l
		aldrin	0.006 – 0.05	µg/l
		p,p' DDT	0.01 - 0.15	µg/l
		o,p'-DDT	0.01 - 0.15	µg/l
		p,p'-DDE	0.01 - 0.15	µg/l
		o,p'-DDE	0.01 - 0.15	µg/l
		p,p'-DDD	0.01 - 0.15	µg/l
		o,p-DDD (TDE)	0.01 - 0.15	µg/l
		hexachlorocyclohexane (alpha)	0.01 - 0.15	µg/l
		hexachlorocyclohexane (beta)	0.01 - 0.15	µg/l
		hexachlorocyclohexane (delta)	0.01 - 0.15	µg/l
		lindane (gamma HCH)	0.01 - 0.15	µg/l
		trifluralin	0.01 - 0.15	µg/l
		alpha endosulphan	0.01 - 0.15	µg/l
		beta endosulphan	0.01 - 0.15	µg/l
		hexachlorobenzene	0.01 - 0.15	µg/l
		heptachlor	0.006 - 0.04	µg/l
		heptachlor epoxide (total)	0.006 - 0.04	µg/l
pentachlorobenzene	0.01 - 0.15	µg/l		
pendimethalin	0.01 - 0.15	µg/l		

OP Pesticides (group 8)

Product Code	Matrix	Analytes	Approx. Range	Units
FWOP1-DRW1	Drinking Water	alachlor	0.01 - 0.15	µg/l
		azinphos-ethyl	0.01 - 0.15	µg/l
		azinphos-methyl	0.01 - 0.15	µg/l
		dichlorvos	0.01 - 0.15	µg/l
		fenitrothion	0.01 - 0.15	µg/l
		malathion	0.01 - 0.15	µg/l
		mevinphos	0.01 - 0.15	µg/l
		chlorofenvinphos	0.01 - 0.15	µg/l
		chlorpyrifos	0.01 - 0.15	µg/l
		diazinon	0.01 - 0.15	µg/l
		fenthion	0.01 - 0.15	µg/l
		parathion-ethyl	0.01 - 0.15	µg/l
		parathion-methyl	0.01 - 0.15	µg/l
		cypermethrin	0.01 - 0.15	µg/l
		propetamphos	0.01 - 0.15	µg/l

Perchlorates (group 20)

Product Code	Matrix	Analytes	Approx. Range	Units
FWPE1-DRW1	Standard concentrate	perchlorate	4.0 - 20.0	µg/l

Polycyclic Aromatic Hydrocarbons (PAHs group 7)

Product Code	Matrix	Analytes	Approx. Range	Units
FWPC1-DRW1	Drinking Water	anthracene	0.005 – 0.05	µg/l
		fluoranthene	0.01 – 0.10	µg/l
		benzo (b) fluoranthene	0.003 – 0.05	µg/l
		benzo (k) fluoranthene	0.003 – 0.05	µg/l
		naphthalene	0.005 – 0.05	µg/l
		benzo (a) pyrene	0.002 – 0.02	µg/l
		benzo (ghi) perylene	0.01 – 0.07	µg/l
		indeno (1,2,3-cd) pyrene	0.01 – 0.07	µg/l

Routine Components (group 2)

Product Code	Matrix	Analytes	Approx. Range	Units
FWRC1-DRW1	Drinking Water	nitrite NO ₂	0.02 - 0.60	mg/l
		nitrate NO ₃	2.0 - 60.0	mg/l
		ammonium NH ₄	0.1 - 0.60	mg/l
		TOC	0.2 - 5.0	mg/l
		PI	0.2 - 5.0	mg/l
		colour (filtered)	0.2 - 20.0	HAZEN
		SR phosphate	10.0 - 1500	µg/l
		pH	6.0 - 10.0	pH units
		turbidity	0.05 - 4.0	NTU
		conductivity @ 20°C	100 - 600	µS/cm

Routine Metals (group 3)

Product Code	Matrix	Analytes	Approx. Range	Units
FWRM1-DRW1	Drinking Water	cadmium	0.5 - 7.0	µg/l
		lead	0.5 - 20.0	µg/l
		iron	20.0 - 400	µg/l
		manganese	10.0 - 75.0	µg/l
		aluminium	20.0 - 300	µg/l
		copper	50.0 - 2000	µg/l
		zinc	50.0 - 500	µg/l
		nickel	5.0 - 30.0	µg/l
		chromium	5.0 - 50.0	µg/l

Taste & Odour Chemical Identification (no group)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTO1-DRW1	Drinking Water	not set - blind sample	not set	not set

Total Cyanide (group 16)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTC1-DRW1	Standard Concentrate	total cyanide	0.01 - 0.10	mg/l

Triazines and Urea Herbicides (group 15)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTU1-DRW1	Drinking Water	isoproturon	0.01 - 0.15	µg/l
		diuron	0.01 - 0.15	µg/l
		linuron	0.01 - 0.15	µg/l
		chlortoluron	0.01 - 0.15	µg/l
		monuron	0.01 - 0.15	µg/l
		methabenzthiazuron	0.01 - 0.15	µg/l
		diflufenican	0.01 - 0.15	µg/l
		metamitron	0.01 - 0.15	µg/l
		simazine	0.01 - 0.15	µg/l
		atrazine	0.01 - 0.15	µg/l
		propazine	0.01 - 0.15	µg/l
		cyanazine	0.01 - 0.15	µg/l
		trietazine	0.01 - 0.15	µg/l
		prometryn	0.01 - 0.15	µg/l
		terbutryn	0.01 - 0.15	µg/l
		ametryn	0.01 - 0.15	µg/l
		carbetamide	0.01 - 0.15	µg/l
pirimicarb	0.01 - 0.15	µg/l		

Trihalomethanes / Chlorinated Solvents (group 6)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTR1-DRW1	Drinking Water	chloroform	2.0 - 100	µg/l
		dichloromethane	2.0 - 40.0	µg/l
		bromodichloromethane	2.0 - 50.0	µg/l
		dibromochloromethane	2.0 - 50.0	µg/l
		bromoform	2.0 - 50.0	µg/l
		trichloroethene	0.5 - 10.0	µg/l
		tetrachloroethene	0.5 - 10.0	µg/l
		carbon tetrachloride	0.5 - 4.0	µg/l
		1,2-dichloroethane	0.5 - 4.0	µg/l
		1,2,3-trichlorobenzene	0.1 - 2.0	µg/l
		1,2,4-trichlorobenzene	0.1 - 2.0	µg/l
		1,3,5-trichlorobenzene	0.1 - 2.0	µg/l
		hexachlorobutadiene	0.01 - 0.15	µg/l
		1,1,1-trichloroethane	0.1 - 2.0	µg/l

Uranium (group 21)

Product Code	Matrix	Analytes	Approx. Range	Units
FWUR1-DRW1	Standard solution	uranium	10.0 - 100	µg/l

HIGH SALINITY WATER

Complex Nutrients (group 1)

Product Code	Matrix	Analytes	Approx. Range	Units
FWCN1-HSW1	High Salinity Water	Kjeldahl nitrogen (total) (TKN)	1.5 - 35.0	mg/l
		nitrogen (total)	1.5 - 35.0	mg/l
		phosphorus (total)	0.5 -10.0	mg/l

Minerals (group 3)

Product Code	Matrix	Analytes	Approx. Range	Units
FWMI1-HSW1	High Salinity Water	calcium	25.0 - 110	mg/l
		magnesium	2.0 - 40.0	mg/l
		potassium	4.0 - 40.0	mg/l
		alkalinity as CaCO ₃	10.0 - 100,000	mg/l
		conductivity (25°C)	0.0 - 100	mS/cm
		hardness (total) as CaCO ₃	8.7 - 275	mg/l
		pH	5.0 - 10.0	pH units

Simple Nutrients (group 2)

Product Code	Matrix	Analytes	Approx. Range	Units
FWSN1-HSW1	High Salinity Water	ammonia as N	0.65 - 19.0	mg/l
		nitrate as N	0.25 - 40.0	mg/l
		nitrate+nitrite as N	0.25 - 40.0	mg/l
		nitrite as N	0.40 - 4.0	mg/l
		orthophosphate as P	0.50 -5.50	mg/l

Trace Metals 3 (group 4)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTM3-HSW1	High Salinity Water	Aluminium	0.0 - 10,000	µg/l
		Arsenic	0.0 - 10,000	µg/l
		Beryllium	0.0 - 10,000	µg/l
		Cadmium	0.0 - 10,000	µg/l
		Chromium	0.0 - 10,000	µg/l
		Cobalt	0.0 - 10,000	µg/l
		Copper	0.0 - 10,000	µg/l
		Iron	0.0 - 10,000	µg/l
		Lead	0.0 - 10,000	µg/l
		Manganese	0.0 - 10,000	µg/l
		Mercury	0.0 - 10,000	µg/l
		Nickel	0.0 - 10,000	µg/l
		Selenium	0.0 - 10,000	µg/l

Trace Metals 4 (group 5)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTM4-HSW1	High Salinity Water	Antimony	95.0 - 900	µg/l
		Barium	100 - 2500	µg/l
		Boron	800 - 2000	µg/l
		Molybdenum	60.0 - 600	µg/l
		Silver	26.0 - 600	µg/l
		Strontium	30.0 - 300	µg/l
		Thallium	60.0 - 900	µg/l
		Tin	1000 - 5000	µg/l
		Titanium	80.0 - 300	µg/l

WASTE WATER

Anions (group 9)

Product Code	Matrix	Analytes	Approx. Range	Units
FWAN1-EWW1	Standard Concentrate	bromide	1.0 - 10.0	mg/l
		fluoride	0.3 - 4.0	mg/l

VOC

Product Code	Matrix	Analytes	Approx. Range	Units
FWVO1-EWW1	Standard Concentrate	benzene	8.0 - 120	µg/l
		1,2-dichlorobenzene	8.0 - 100	µg/l
		1,3-dichlorobenzene	9.0 - 125	µg/l
		1,4-dichlorobenzene	8.0 - 115	µg/l
		ethylbenzene	9.0 - 100	µg/l
		methyl tert-butyl ether (mtbe)	15.0 - 100	µg/l
		naphthalene	8.0 - 190	µg/l
		toluene	7.0 - 100	µg/l
		1,2,4-trimethylbenzene	8.0 - 100	µg/l
		1,3,5-trimethylbenzene	8.0 - 100	µg/l
		m+p-xylene	8.0 - 300	µg/l
		o-xylene	8.0 - 300	µg/l
		total xylene	20.0 - 300	µg/l

Dissolved Oxygen (group 14)

Product Code	Matrix	Analytes	Approx. Range	Units
FWDO1-EWW1	Standard Concentrate	dissolved oxygen & dissolved oxygen (Winkler)	1.0 - 100	mg/l

Hexavalent Chromium (group 7)

Product Code	Matrix	Analytes	Approx. Range	Units
FWHC1-EWW1	Standard Concentrate	hexavalent chromium [Cr(VI)]	45.0 - 880	µg/l

Minerals (group 8)

Product Code	Matrix	Analytes	Approx. Range	Units
FWMI1-EWW1	Standard Concentrate	alkalinity (as CaCO ₃)	10.0 - 120	mg/l
		calcium	3.5 - 110	mg/l
		total hardness (as CaCO ₃)	17.0 - 675	mg/l
		magnesium	2.0 - 40.0	mg/l
		potassium	4.0 - 40.0	mg/l
		sodium	6.0 - 100	mg/l

Nutrients (routine components group 3)

Product Code	Matrix	Analytes	Approx. Range	Units
FWNU1-EWW1	Standard Concentrate	nitrate (as N)	0.5 - 50.0	mg/l
		nitrite (as N)	0.2 - 10.0	mg/l
		ammonia (as N)	0.2 - 20.0	mg/l
		chloride	10.0 - 500	mg/l
		orthophosphate (as P)	1.0 - 100	mg/l
		sulphate (as SO ₄)	10.0 - 500	mg/l
		total phosphorus (as P)	0.2 - 5.0	mg/l
		kjeldahl nitrogen (as N)	2.0 - 50.0	mg/l
		total nitrogen (as N)	2.0 - 50.0	mg/l

Oil & Grease (group 10)

Product Code	Matrix	Analytes	Approx. Range	Units
FWOG1-EWW1	Standard Concentrate	oil & grease suitable for EPA 1664, SM 5520B and other gravimetric methods (not suitable for IR methods)	10.0 - 100	mg/l

Oxygen Demand (group 1)

Product Code	Matrix	Analytes	Approx. Range	Units
FWDE1-EWW1	Standard Concentrate	BOD 5-day	6.0 - 250	mg/l
		COD	6.0 - 250	mg/l
		TOC	6.0 - 250	mg/l

pH & Electrical Conductivity (group 4)

Product Code	Matrix	Analytes	Approx. Range	Units
FWPH1-EWW1	Standard Solution	pH	1.0 - 13.0	pH units
		electrical conductivity @25°C	200 - 2000	µS/cm

Phthalates (Environmental group 16)

Product Code	Matrix	Analytes	Approx. Range	Units
FWPT1-EWW1	Standard Concentrate	bis (2-ethylhexyl) phthalate	8.0 - 50.0	µg/l
		butyl benzyl phthalate	8.0 - 50.0	µg/l
		di-n-butyl phthalate	8.0 - 50.0	µg/l
		diethyl phthalate	8.0 - 50.0	µg/l
		dimethyl phthalate	8.0 - 50.0	µg/l
		di-n-octyl phthalate	8.0 - 50.0	µg/l

Residues (group 2)

Product Code	Matrix	Analytes	Approx. Range	Units
FWRE1-EWW1	Standard Solution	dissolved solids @ 180°C	23.0 - 675	mg/l
		suspended solids	23.0 - 675	mg/l
		total solids	23.0 - 675	mg/l

Settleable Solids (group 13)

Product Code	Matrix	Analytes	Approx. Range	Units
FWSS1-EWW1	Standard Concentrate	settleable solids (volumetric test using Imhoff Cone)	5.0 - 100	ml/l

Total Cyanide (group 11)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTC1-EWW1	Standard Concentrate	total cyanide	0.1 - 1.0	mg/l

Total Sulphide (group 12)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTS1-EWW1	Standard Concentrate	total sulphide	1.0 - 10.0	mg/l

Trace Metals 1 (group 5)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTM1-EWW1	Standard Concentrate	aluminium	200 - 4000	µg/l
		arsenic	70.0 - 900	µg/l
		beryllium	8.0 - 900	µg/l
		cadmium	8.0 - 750	µg/l
		chromium (total)	17.0 - 1000	µg/l
		cobalt	28.0 - 1000	µg/l
		copper	40.0 - 900	µg/l
		iron	200 - 4000	µg/l
		lead	70.0 - 3000	µg/l
		manganese	70.0 - 4000	µg/l
		mercury	2.0 - 30.0	µg/l
		nickel	80.0 - 3000	µg/l
		selenium	90.0 - 2000	µg/l
		vanadium	55.0 - 2000	µg/l
zinc	100 - 2000	µg/l		

Trace Metals 2 (group 6)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTM2-EWW1	Standard Concentrate	antimony	95.0 - 900	µg/l
		barium	100 - 2500	µg/l
		boron	800 - 2000	µg/l
		molybdenum	60.0 - 600	µg/l
		silver	26.0 - 600	µg/l
		strontium	30.0 - 300	µg/l
		thallium	60.0 - 900	µg/l

SOIL

Trace Metals 5 (no group)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTM5-SOI1	Soil	cadmium	1.0 - 400	mg/kg
		lead	10.0 - 2000	mg/kg
		chromium	10.0 - 500	mg/kg
		arsenic	1.0 - 500	mg/kg
		barium	30.0 - 2500	mg/kg
		nickel	1.0 - 200	mg/kg
		copper	2.0 - 200	mg/kg
		zinc	10.0 - 200	mg/kg
		mercury	0.1 - 200	mg/kg

SURFACE WATER

Major Inorganic Components (group 1)

Product Code	Matrix	Analytes	Approx. Range	Units
FWIC1-SUW1	Surface Water	sodium	5.0 - 50.0	mg/l
		potassium	0.3 - 3.0	mg/l
		chloride	6.0 - 50.0	mg/l
		calcium	10.0 - 150	mg/l
		magnesium	1.0 - 15.0	mg/l
		alkalinity as HCO ₃	30.0 - 300	mg/l
		total hardness as Ca	30.0 - 130	mg/l
		total phosphorus P	100 - 3000	µg/l
		fluoride	150 - 1800	µg/l
		sulphate	5.0 - 100	mg/l

Routine Components (group 2)

Product Code	Matrix	Analytes	Approx. Range	Units
FWRC1-SUW1	Surface Water	nitrite NO ₂	0.02 - 0.60	mg/l
		nitrate NO ₃	2.0 - 60.0	mg/l
		ammonium NH ₄	0.1 - 0.6	mg/l
		TOC	0.2 - 5.0	mg/l
		PI	0.2 - 5.0	mg/l
		colour (filtered)	0.2 - 30.0	HAZEN
		SR phosphate	1.0 - 1500	µg/l
		pH	6.0 - 10.0	pH units
		turbidity	0.05 - 10.0	NTU
		conductivity @ 20°C	100 - 600	µS/cm

Metals (group 3)

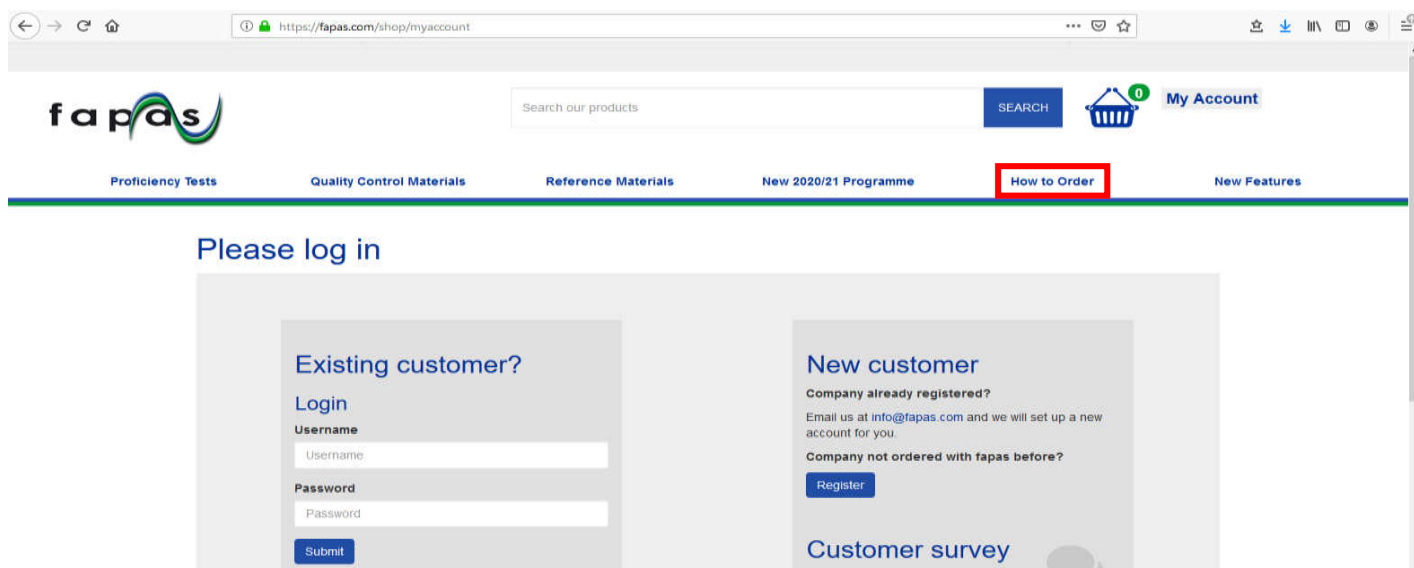
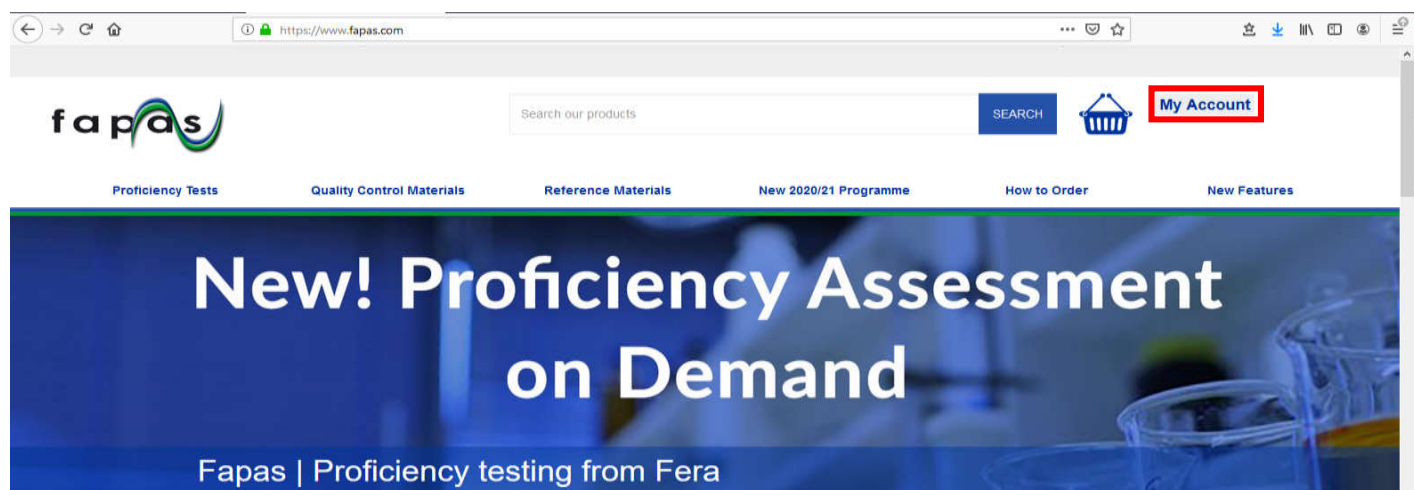
Product Code	Matrix	Analytes	Approx. Range	Units
FWME1-SUW1	Surface Water	iron	15.0 - 400	µg/l
		manganese	10.0 - 70.0	µg/l
		copper	20.0 - 700	µg/l
		aluminium	10.0 - 500	µg/l
		zinc	20.0 - 700	µg/l
		silver	2.0 - 15.0	µg/l
		barium	10.0 - 700	µg/l
		boron	25.0 - 1500	µg/l
		strontium	10.0 - 1000	µg/l
		lithium	10.0 - 100	µg/l

Toxic Metals (group 4)

Product Code	Matrix	Analytes	Approx. Range	Units
FWTX1-SUW1	Surface Water	cadmium	0.2 - 7.0	µg/l
		lead	1.0 -25.0	µg/l
		nickel	3.0 - 30.0	µg/l
		selenium	1.0 - 15.0	µg/l
		arsenic	1.0 - 15.0	µg/l
		antimony	0.5 - 7.0	µg/l
		mercury	0.1 - 2.0	µg/l
		cobalt	2.0 - 30.0	µg/l
		vanadium	2.0 - 30.0	µg/l
		chromium	3.0 - 60.0	µg/l
		molybdenum	2.0 - 30.0	µg/l
		tin	1.0 - 100	µg/l
		beryllium	1.0 - 10.0	µg/l

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