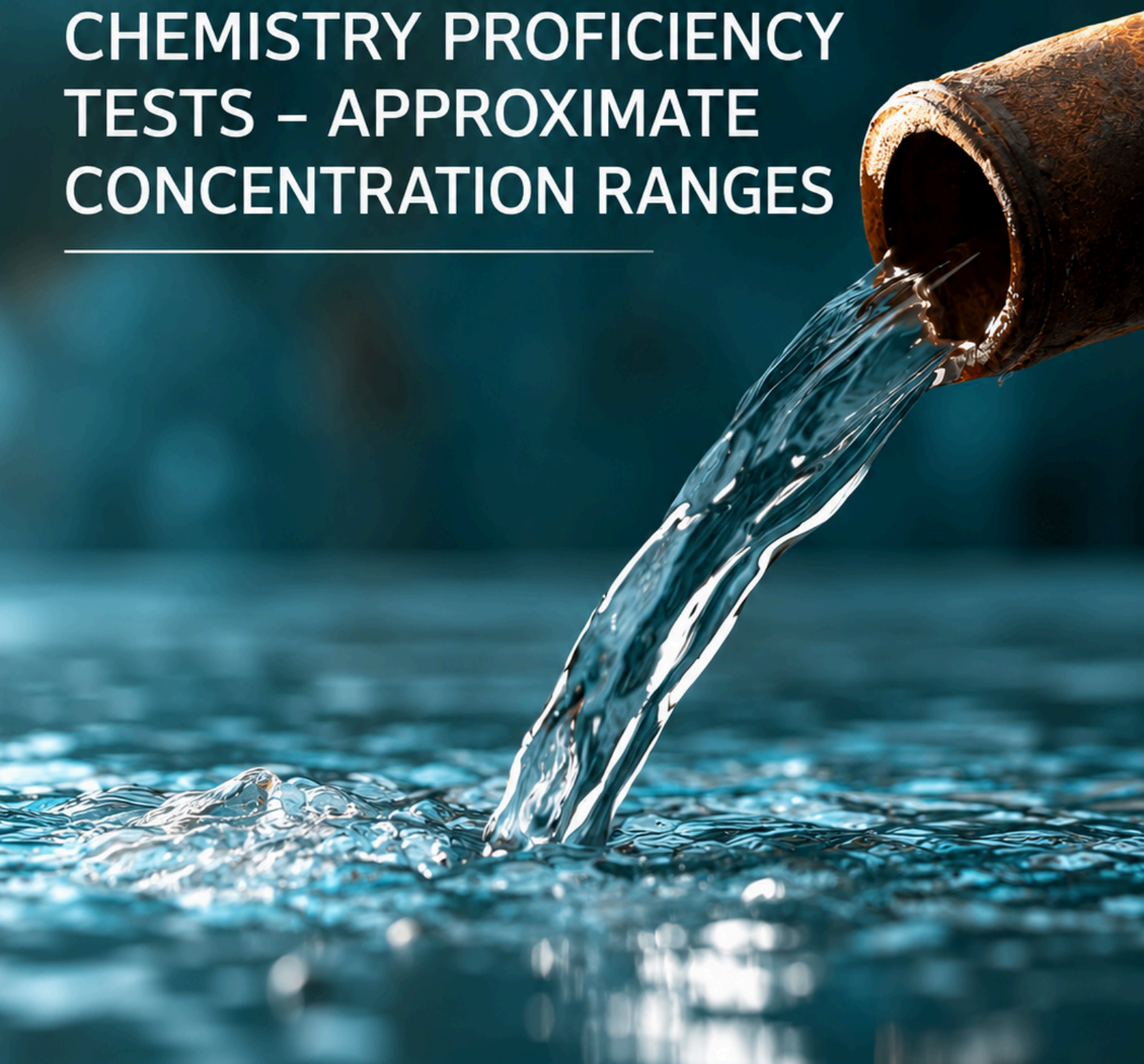


WATER & ENVIRONMENTAL CHEMISTRY PROFICIENCY TESTS – APPROXIMATE CONCENTRATION RANGES



Water & Environmental Chemistry

Proficiency tests – approximate concentration ranges

Bottled Water

OC Pesticides (Organo-Chlorine Pesticides)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWOC1-DRN41	Bottled Water	aldrin	0.006 - 0.05	mg/l
		dieldrin	0.006 - 0.05	mg/l
		heptachlor	0.006 - 0.04	mg/l
		total heptachlor epoxide	0.006 - 0.04	mg/l

Routine Components

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWRC1-DRN41	Bottled Water	bicarbonate	10.0 - 500	mg/l
		calcium	10.0 - 150	mg/l
		chloride	6.00 - 50.0	mg/l
		magnesium	1.00 - 15.0	mg/l
		Nitrate	2.00 - 60.0	mg/l
		potassium	0.30 - 3.00	mg/l
		sodium	5.00 - 50.0	mg/l
		sulphate	8.00 - 100	mg/l
		dry residue at 180°C	50.0 - 1500	mg/l
		pH	6.0 - 10.0	pH units

Drinking Water

Acid Herbicides (group 9)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWAH1-DRW1	Drinking Water	benazolin	0.01 - 0.15	mg/l
		bentazone	0.01 - 0.15	mg/l
		bromacil	0.01 - 0.15	mg/l
		bromoxynil	0.01 - 0.15	mg/l
		clopyralid	0.01 - 0.15	mg/l
		2,4-D	0.01 - 0.15	mg/l
		2,4-DB	0.01 - 0.15	mg/l
		dicamba	0.01 - 0.15	mg/l
		dichlobenil	0.01 - 0.15	mg/l
		dichlorprop	0.01 - 0.15	mg/l
		fluroxypyr	0.01 - 0.15	mg/l
		ioxynil	0.01 - 0.15	mg/l
		MCPA	0.01 - 0.15	mg/l
		MCPB	0.01 - 0.15	mg/l
		mecoprop	0.01 - 0.15	mg/l
		metaldehyde	0.01 - 0.15	mg/l
		metazachlor	0.01 - 0.15	mg/l
		propachlor	0.01 - 0.15	mg/l
		propyzamide	0.01 - 0.15	mg/l
		2,4,5-T	0.01 - 0.15	mg/l
		2,3,6-TBA	0.01 - 0.15	mg/l
		triclopyr	0.01 - 0.15	mg/l

Bisphenol A (group 22)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWBA1-DRW1	Drinking Water ▲	Bisphenol A	0.2 - 4.0	mg/l

BTEX (group 11)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWBT1-DRW1	Drinking Water	benzene	0.1 - 1.5	mg/l
		ethylbenzene	0.2 - 4.0	mg/l
		styrene	0.2 - 4.0	mg/l
		toluene	0.2 - 4.0	mg/l
		m-xylene	0.2 - 4.0	mg/l
		m+p xylene	0.2 - 8.0	mg/l
		o-xylene	0.2 - 4.0	mg/l
		p-xylene	0.2 - 4.0	mg/l
		total xylene	0.5 - 12.0	mg/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

Cyanide (free) (group 16)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTC1-DRW1	Standard Concentrate	total cyanide	0.01 - 0.10	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, PFNA, PFHxS, group 19)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWFL1-DRW1	Standard concentrate ▲	Perfluorohexanesulfonic Acid (PFHxS)	0.1 - 2.0	mg/l
		Perfluorononanoic Acid (PFNA)	0.1 - 2.0	mg/l
		perfluorooctanoic acid (PFOA)	0.1 - 2.0	mg/l
		perfluorooctanesulfonic acid (PFOS)	0.1 - 2.0	mg/l

Haloacetic Acids (group 17)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWHA1-DRW1	Drinking Water	dibromoacetic acid (DBA)	5.0 - 50.0	mg/l
		dichloroacetic acid (DCA)	5.0 - 50.0	mg/l
		monobromoacetic acid (MBA)	5.0 - 50.0	mg/l
		monochloroacetic acid (MCA)	5.0 - 50.0	mg/l
		trichloroacetic acid (TCA)	5.0 - 50.0	mg/l

Hexavalent Chromium (group 18)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWHC1-DRW1	Standard concentrate	hexavalent chromium	5.0 - 50.0	mg/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	mg/l
		bromate	1.0 - 20.0	mg/l
		chlorite	1.0 - 100	mg/l
		chlorate	1.0 - 1000	mg/l

Major Inorganic Components (group 1)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWIC1-DRW1	Drinking Water	alkalinity HCO ₃	30.0 - 300	mg/l
		calcium	10.0 - 150	mg/l
		chloride	6.0 - 50.0	mg/l
		fluoride	150 - 1800	mg/l
		magnesium	1.0 - 15.0	mg/l
		potassium	0.3 - 3.0	mg/l
		sodium	5.0 - 50.0	mg/l
		sulphate	8.0 - 100	mg/l
		total hardness Ca	30.0 - 130	mg/l
		total phosphorus P	100 - 3000	mg/l

Non-Routine Metals (group 4)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWNM1-DRW1	Drinking Water	antimony	0.5 - 7.5	mg/l
		arsenic	1.0 - 15.0	mg/l
		barium	100 - 1000	mg/l
		beryllium	3.0 - 10.0	mg/l
		boron	200 - 1500	mg/l
		cobalt	3.0 - 30.0	mg/l
		lithium	10.0 - 100	mg/l
		mercury	0.1 - 2.0	mg/l
		molybdenum	3.0 - 30.0	mg/l
		selenium	1.0 - 15.0	mg/l
		silver	1.0 - 20.0	mg/l
		strontium	50.0 - 500	mg/l
		tin	3.0 - 100	mg/l
		vanadium	3.0 - 30.0	mg/l

OC Pesticides (group 10)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWOC1-DRW1	Drinking Water	aldrin	0.006 - 0.05	mg/l
		p,p'-DDD	0.01 - 0.15	mg/l
		o,p'-DDD (TDE)	0.01 - 0.15	mg/l
		o,p'-DDE	0.01 - 0.15	mg/l
		p,p'-DDE	0.01 - 0.15	mg/l
		o,p'-DDT	0.01 - 0.15	mg/l
		p,p'-DDT	0.01 - 0.15	mg/l
		dieldrin	0.006 - 0.05	mg/l
		endrin	0.01 - 0.15	mg/l
		alpha endosulphan	0.01 - 0.15	mg/l
		beta endosulphan	0.01 - 0.15	mg/l
		heptachlor	0.006 - 0.04	mg/l
		heptachlor epoxide (total)	0.006 - 0.04	mg/l
		hexachlorobenzene	0.01 - 0.15	mg/l
		hexachlorocyclohexane (alpha)	0.01 - 0.15	mg/l
		hexachlorocyclohexane (beta)	0.01 - 0.15	mg/l
		hexachlorocyclohexane (delta)	0.01 - 0.15	mg/l
		lindane (gamma HCH)	0.01 - 0.15	mg/l
		pendimethalin	0.01 - 0.15	mg/l
		pentachlorobenzene	0.01 - 0.15	mg/l
		trifluralin	0.01 - 0.15	mg/l

OP Pesticides (group 8)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWOP1-DRW1	Drinking Water	alachlor	0.01 - 0.15	mg/l
		azinphos-ethyl	0.01 - 0.15	mg/l
		azinphos-methyl	0.01 - 0.15	mg/l
		chlorofenvinphos	0.01 - 0.15	mg/l
		chlorpyrifos	0.01 - 0.15	mg/l
		cypermethrin	0.01 - 0.15	mg/l
		diazinon	0.01 - 0.15	mg/l
		dichlorvos	0.01 - 0.15	mg/l
		fenitrothion	0.01 - 0.15	mg/l
		fenthion	0.01 - 0.15	mg/l
		malathion	0.01 - 0.15	mg/l
		mevinphos	0.01 - 0.15	mg/l
		parathion-ethyl	0.01 - 0.15	mg/l
		parathion-methyl	0.01 - 0.15	mg/l
		propetamphos	0.01 - 0.15	mg/l

Perchlorate (group 20)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWPE1-DRW1	Standard concentrate	perchlorate	4.0 - 20.0	mg/l

Polycyclic Aromatic Hydrocarbons (PAHs group 7)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWPC1-DRW1	Drinking Water	anthracene	0.005 - 0.05	mg/l
		benzo (a) pyrene	0.002 - 0.02	mg/l
		benzo (b) fluoranthene	0.003 - 0.05	mg/l
		benzo (ghi) perylene	0.01 - 0.07	mg/l
		benzo (k) fluoranthene	0.003 - 0.05	mg/l
		fluoranthene	0.01 - 0.10	mg/l
		indeno (1,2,3-cd) pyrene	0.01 - 0.07	mg/l
		naphthalene	0.005 - 0.05	mg/l

Routine Components (group 2)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWRC1-DRW1	Drinking Water	ammonium NH ₄	0.1 - 0.60	mg/l
		colour (filtered)	0.2 - 20.0	HAZEN
		conductivity @ 20°C	100 - 600	mS/cm
		nitrite NO ₂	0.02 - 0.60	mg/l
		nitrate NO ₃	2.0 - 60.0	mg/l
		pH	6.0 - 10.0	pH units
		PI	0.2 - 5.0	mg/l
		SR phosphate	10.0 - 1500	mg/l
		TOC	0.2 - 5.0	mg/l
		turbidity	0.05 - 4.0	NTU

Routine Metals (group 3)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWRM1-DRW1	Drinking Water	aluminium	20.0 - 300	mg/l
		cadmium	0.5 - 7.0	mg/l
		chromium	5.0 - 50.0	mg/l
		copper	50.0 - 2000	mg/l
		iron	20.0 - 400	mg/l
		lead	0.5 - 20.0	mg/l
		manganese	2.0 - 75.0	mg/l
		nickel	5.0 - 30.0	mg/l
		zinc	50.0 - 500	mg/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

Triazines and Urea Herbicides (group 15)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTU1-DRW1	Drinking Water	ametryn	0.01 - 0.15	mg/l
		atrazine	0.01 - 0.15	mg/l
		carbetamide	0.01 - 0.15	mg/l
		chlortoluron	0.01 - 0.15	mg/l
		cyanazine	0.01 - 0.15	mg/l
		diflufenican	0.01 - 0.15	mg/l
		diuron	0.01 - 0.15	mg/l
		isoproturon	0.01 - 0.15	mg/l
		linuron	0.01 - 0.15	mg/l
		metamitron	0.01 - 0.15	mg/l
		methabenzthiazuron	0.01 - 0.15	mg/l
		monuron	0.01 - 0.15	mg/l
		pirimicarb	0.01 - 0.15	mg/l
		prometryn	0.01 - 0.15	mg/l
		propazine	0.01 - 0.15	mg/l
		simazine	0.01 - 0.15	mg/l
		terbutryn	0.01 - 0.15	mg/l
		trietazine	0.01 - 0.15	mg/l

Trihalomethanes / Chlorinated Solvents (group 6)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTR1-DRW1	Drinking Water	bromodichloromethane	2.0 - 50.0	mg/l
		bromoform	2.0 - 50.0	mg/l
		carbon tetrachloride	0.5 - 4.0	mg/l
		chloroform	2.0 - 100	mg/l
		dibromochloromethane	2.0 - 50.0	mg/l
		1,2-dichloroethane	0.5 - 4.0	mg/l
		dichloromethane	2.0 - 40.0	mg/l
		hexachlorobutadiene	0.01 - 0.15	mg/l
		tetrachloroethene	0.5 - 10.0	mg/l
		1,2,3-trichlorobenzene	0.1 - 2.0	mg/l
		1,2,4-trichlorobenzene	0.1 - 2.0	mg/l
		1,3,5-trichlorobenzene	0.1 - 2.0	mg/l
		1,1,1-trichloroethane	0.1 - 2.0	mg/l
		trichloroethene	0.5 - 10.0	mg/l

Uranium (group 21)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWUR1-DRW1	Standard solution	uranium	5.0 - 60	mg/l

Soil

Trace Metals (no group)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTM5-SOI1	Soil	arsenic	1.0 - 500	mg/kg
		barium	30.0 - 2500	mg/kg
		cadmium	1.0 - 400	mg/kg
		chromium	10.0 - 500	mg/kg
		copper	2.0 - 200	mg/kg
		lead	10.0 - 2000	mg/kg
		mercury	0.1 - 200	mg/kg
		nickel	1.0 - 200	mg/kg
		zinc	10.0 - 200	mg/kg

Pesticide Residues (multi residues, defined list)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FPCM15-SOI1	Soil ▲	To be confirmed	50 - 500	mg/kg

Surface Water

Major Inorganic Components (group 1)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWIC1-SUW1	Surface Water	alkalinity as HCO ₃	30.0 - 300	mg/l
		calcium	10.0 - 150	mg/l
		chloride	6.0 - 50.0	mg/l
		fluoride	150 - 1800	mg/l
		magnesium	1.0 - 15.0	mg/l
		potassium	0.3 - 3.0	mg/l
		sodium	5.0 - 50.0	mg/l
		sulphate	5.0 - 100	mg/l
		total hardness as Ca	30.0 - 130	mg/l
		total phosphorus P	100 - 3000	mg/l

Metals (group 3)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWME1-SUW1	Surface Water	aluminium	10.0 - 500	mg/l
		barium	10.0 - 700	mg/l
		boron	25.0 - 2000	mg/l
		copper	20.0 - 700	mg/l
		iron	15.0 - 400	mg/l
		lithium	10.0 - 100	mg/l
		manganese	10.0 - 70.0	mg/l
		silver	2.0 - 15.0	mg/l
		strontium	10.0 - 1000	mg/l
		zinc	20.0 - 700	mg/l

Pharmaceuticals (group 5)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWPS1-SUW1	Surface Water ▲	diclofenac	0.2 - 2.0	mg/l
		ibuprofen	0.2 - 2.0	mg/l
		naproxen	0.2 - 2.0	mg/l
		oxytetracycline	0.2 - 2.0	mg/l
		sulfamethoxazole	0.2 - 2.0	mg/l
		trimethoprim	0.2 - 2.0	mg/l

Routine Components (group 2)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWRC1-SUW1	Surface Water	ammonium NH ₄	0.1 - 0.6	mg/l
		colour (filtered)	0.2 - 30.0	HAZEN
		conductivity @ 20°C	100 - 600	mS/cm
		nitrite NO ₂	0.02 - 0.60	mg/l
		nitrate NO ₃	2.0 - 60.0	mg/l
		pH	6.0 - 10.0	pH units
		PI	0.2 - 5.0	mg/l
		SR phosphate	1.0 - 1500	mg/l
		TOC	0.2 - 5.0	mg/l
		turbidity	0.05 - 10.0	NTU

Toxic Metals (group 4)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTX1-SUW1	Surface Water	antimony	0.5 - 7.0	mg/l
		arsenic	1.0 - 15.0	mg/l
		beryllium	1.0 - 10.0	mg/l
		cadmium	0.2 - 7.0	mg/l
		chromium	3.0 - 60.0	mg/l
		cobalt	2.0 - 30.0	mg/l
		lead	1.0 - 25.0	mg/l
		mercury	0.1 - 2.0	mg/l
		molybdenum	2.0 - 30.0	mg/l
		nickel	3.0 - 30.0	mg/l
		selenium	1.0 - 15.0	mg/l
		tin	1.0 - 100	mg/l
		vanadium	2.0 - 30.0	mg/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

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	mg/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
		magnesium	2.0 - 40.0	mg/l
		potassium	4.0 - 40.0	mg/l
		sodium	6.0 - 100	mg/l
		total hardness (as CaCO ₃)	17.0 - 675	mg/l

Nutrients (group 3)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWNU1-EWW1	Standard Concentrate	ammonia (as N)	0.2 - 20.0	mg/l
		chloride	10.0 - 500	mg/l
		kjeldahl nitrogen (as N)	2.0 - 50.0	mg/l
		nitrate (as N)	0.5 - 50.0	mg/l
		nitrite (as N)	0.2 - 10.0	mg/l
		orthophosphate (as P)	1.0 - 100	mg/l
		sulphate (as SO ₄)	10.0 - 500	mg/l
		total nitrogen (as N)	2.0 - 50.0	mg/l
		total phosphorus (as P)	0.2 - 5.0	mg/l

OC Pesticides (Organo-Chlorine Pesticides)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWOC1-EWW1	Standard Concentrate NEW	Aldrin	0.50 - 20.0	mg/l
		Chlordane (cis)	0.50 - 20.0	mg/l
		Chlordane (trans)	0.50 - 20.0	mg/l
		DDD-pp (TDE)	0.50 - 20.0	mg/l
		DDE-pp	0.50 - 20.0	mg/l
		DDT-pp	0.50 - 20.0	mg/l
		Dieldrin	0.50 - 20.0	mg/l
		Endosulfan I (alpha)	0.50 - 20.0	mg/l
		Endosulfan II (beta)	0.50 - 20.0	mg/l
		Endosulfan-sulfate	0.50 - 20.0	mg/l
		Endrin	0.50 - 20.0	mg/l
		Endrin aldehyde	0.50 - 20.0	mg/l
		Endrin ketone	0.50 - 20.0	mg/l
		HCH-A (alpha hexachlorocyclohexane)	0.50 - 20.0	mg/l
		HCH-B (beta hexachlorocyclohexane)	0.50 - 20.0	mg/l
		HCH-D (delta hexachlorocyclohexane)	0.50 - 20.0	mg/l
		HCH-G (gamma hexachlorocyclohexane)	0.50 - 20.0	mg/l
		Heptachlor	0.50 - 20.0	mg/l
		Heptachlor-epoxide (cis)	0.50 - 20.0	mg/l
		Hexachlorobenzene	0.50 - 20.0	mg/l
		Hexachlorocyclopentadiene	0.50 - 20.0	mg/l
		Isodrin	0.50 - 20.0	mg/l
		Methoxychlor	0.50 - 20.0	mg/l
		Propachlor	0.50 - 20.0	mg/l
		Trifluralin	0.50 - 20.0	mg/l

The list of pesticide residues is provided as a guideline and is subject to change. This is a semi-blind PT for screening / quantification - not all analytes will be included in the test material

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	electrical conductivity @25°C	200 - 2000	mS/cm
		pH	1.0 - 13.0	pH units

Phthalates (Environmental, group 16)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWPT1-EWW1	Standard Concentrate	bis (2-ethylhexyl) phthalate	8.0 - 50.0	mg/l
		butyl benzyl phthalate	8.0 - 50.0	mg/l
		di-n-butyl phthalate	8.0 - 50.0	mg/l
		diethyl phthalate	8.0 - 50.0	mg/l
		dimethyl phthalate	8.0 - 50.0	mg/l
		di-n-octyl phthalate	8.0 - 50.0	mg/l

Polycyclic Aromatic Hydrocarbons (PAHs)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWPC1-EWW1	Standard Concentrate NEW	Benz[a]anthracene	0.30 - 10.0	mg/l
		Chrysene	0.30 - 10.0	mg/l
		Benzo[b]fluoranthene	0.30 - 10.0	mg/l
		Benzo[a]pyrene	0.30 - 10.0	mg/l
		Indeno[1,2,3-cd]pyrene	0.30 - 10.0	mg/l
		Benzo[g,h,i]perylene	0.30 - 10.0	mg/l
		Benzo[b]fluoranthene	0.30 - 10.0	mg/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	mg/l
		arsenic	70.0 - 900	mg/l
		beryllium	8.0 - 900	mg/l
		cadmium	8.0 - 750	mg/l
		chromium (total)	17.0 - 1000	mg/l
		cobalt	28.0 - 1000	mg/l
		copper	40.0 - 900	mg/l
		iron	200 - 4000	mg/l
		lead	70.0 - 3000	mg/l
		manganese	70.0 - 4000	mg/l
		mercury	2.0 - 30.0	mg/l
		nickel	80.0 - 3000	mg/l
		selenium	90.0 - 2000	mg/l
		vanadium	55.0 - 2000	mg/l
		zinc	100 - 2000	mg/l

Trace Metals 2 (group 6)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWTM2-EWW1	Standard Concentrate	antimony	95.0 - 900	mg/l
		barium	100 - 2500	mg/l
		boron	800 - 2000	mg/l
		molybdenum	60.0 - 600	mg/l
		silver	26.0 - 600	mg/l
		strontium	30.0 - 300	mg/l
		thallium	60.0 - 900	mg/l

VOCs (Volatile Organic Compounds, group 15)

PRODUCT CODE	MATRIX	ANALYTES	APPROX. RANGE	UNITS
FWVO1-EWW1	Standard Concentrate	benzene	8.0 - 120	mg/l
		1,2-dichlorobenzene	8.0 - 100	mg/l
		1,3-dichlorobenzene	9.0 - 125	mg/l
		1,4-dichlorobenzene	8.0 - 115	mg/l
		ethylbenzene	9.0 - 100	mg/l
		methyl tert-butyl ether (mtbe)	15.0 - 100	mg/l
		naphthalene	8.0 - 190	mg/l
		toluene	7.0 - 100	mg/l
		1,2,4-trimethylbenzene	8.0 - 100	mg/l
		1,3,5-trimethylbenzene	8.0 - 100	mg/l
		m+p-xylene	8.0 - 300	mg/l
		o-xylene	8.0 - 300	mg/l
		total xylene	20.0 - 300	mg/l