

Small community sampling grid

Definitions:

Source water sample point
Treated water
Distribution water sample point

water in a storage reservoir, river, stream or underground source
water entering a distribution system after disinfection or clarification
refers to water in the distribution system, but at points well into the distribution system where off-take to consumers has occurred;
means water representative of that supplied to consumers and is normally monitored outside the consumer's off-take from a service pipeline directly off the main selected to represent the quality of water supplied to the consumer.

Consumer water sample point
Key characteristic
Normal characteristic

refers to the point of use within the consumer's property, for example, the kitchen tap
identified when either microbiological, chemical or radiological quality levels can be expected to or have exceeded maximum levels of the ADW
defined by a stable microbiological, chemical or radiological quality measurement that is well below the maximum recommended level
For pesticides, normal sample frequency dependant upon catchment management monitoring program. If detected or likely to be used in catchment revert to key frequencies

Units are mg/L unless otherwise specified
Sampling frequencies listed here are a guideline only

This sampling grid is a guide.
Drinking water providers should evaluate the likely substances that may be found in the water being used, based on catchment and source risk assessment
Bq/L means Becquerels per litre

Category	Characteristic	Health	Aesthetic	Sampling frequency							
				Key characteristic				Normal characteristic			
				Source Water Sample Point	Treated Water Sample Point	Distribution Water Sample Point	Consumer Water Sample Point	Source Water Sample Point	Treated Water Sample Point	Distribution Water Sample Point	Consumer Water Sample Point
Micro-organisms	Escherichia coli (E. coli)	nil		Weekly			Weekly	Monthly			Monthly
	Amoeba (<i>Naegleria fowleri</i>)	nil					Weekly				Monthly
Physical characteristics	Dissolved oxygen		>85%			Monthly					6 monthly
	Hardness		200 mg/L		Quarterly					6 monthly	
	pH		6.5-8.5			Fortnightly					6 monthly
	Taste and odour		acceptable to majority				6 monthly				Annually
	Temperature		no value				6 monthly				6 monthly
	Total dissolved solids		600 mg/L		Quarterly						6 monthly
	True colour		15 HU				Monthly				6 monthly
	Turbidity		5 NTU				Monthly				6 monthly
Inorganic chemicals, disinfection agents and inorganic by-products of disinfection	Bromate	0.02			Monthly						Annually
	Chlorine (free)	5	0.6				Weekly				Monthly
	Trihalomethanes	0.25					Monthly				Annually
Organic chemicals, disinfection by-products	Chloroacetic acid	0.15					Monthly				Annually
	Dichloroacetic acid	0.1					Monthly				Annually
	Trichloroacetic acid	0.1					Monthly				Annually
	2-chlorophenol	0.3	0.0001				Monthly				Annually
	2,4-dichlorophenol	0.2	0.0003				Monthly				Annually
	2,4,6-trichlorophenol	0.02	0.002				Monthly				Annually
Other inorganic chemicals	Trichloroacetaldehyde (chloral hydrate)	0.1					Monthly				Annually
	Aluminium (acid-soluble)		0.2				Weekly				6 monthly
	Ammonia (as NH4)		0.5				Monthly				6 monthly
	Antimony	0.003					Quarterly				Annually
	Arsenic	0.01			Quarterly						Annually
	Barium	2			Quarterly						Annually
	Beryllium	0.06			Annually						2 yearly
	Boron	4			Quarterly						Annually
	Cadmium	0.002						Quarterly			Annually
	Chloride		250			Quarterly					Annually
	Chromium (as Cr(VI))	0.05					Quarterly				Annually
	Copper	2	1					Monthly			Annually
	Cyanide	0.08					Monthly				Annually
	Fluoride	1.5				Monthly					Annually
	Hydrogen sulfide		0.05				Monthly				6 monthly
	Iodide	0.5			Annually						2 yearly
	Iron		0.3					Fortnightly			6 monthly
	Lead	0.01						Monthly			Annually
	Lithium				Annually						2 yearly
	Manganese	0.5	0.1					Fortnightly			6 monthly
	Mercury	0.001			Quarterly						Annually
	Molybdenum	0.05			Quarterly						Annually
	Nickel	0.02						Quarterly			Annually
	Nitrate (as nitrate)	50					Monthly				Annually
	Nitrite	3					Monthly				Annually
	Selenium	0.01			Quarterly						Annually
	Silica		80		Quarterly						Annually
	Silver	0.1			Annually						2 yearly
	Sodium		180			Quarterly					6 monthly
	Strontium	4			Annually						2 yearly
	Sulfate		250			Quarterly					6 monthly
	Uranium	0.017			Monthly						Annually
	Zinc		3					Monthly			Annually
Treatment organics (other than disinfection by-products)	Acrylamide	0.0002				Quarterly					Annually
	Carbon tetrachloride	0.003				Quarterly					Annually
Organic compounds: industrial hydrocarbons (other than disinfection by-products)	Benzene	0.001		Annually							2 yearly
	Chlorobenzene	0.3	0.01	Annually							2 yearly
	1,2-dichlorobenzene (1,2-DCB)	1.5	0.001	Annually							2 yearly
	1,3-dichlorobenzene (1,3-DCB)		0.02	Annually							2 yearly
	1,4-dichlorobenzene (1,4-DCB)	0.04	0.0003	Annually							2 yearly
	1,1-dichloroethane	0.005		Annually							2 yearly
	1,2-dichloroethane	0.003		Annually							2 yearly
	1,1-dichloroethene (1,1-DCE)	0.03		Annually							2 yearly
	1,2-dichloroethene (1,2-DCE)	0.06		Annually							2 yearly
	Dichloromethane (methylene chloride)	0.004		Annually							2 yearly
	Epichlorohydrin	0.0005		Annually	Annually						2 yearly
	Ethylbenzene	0.3	0.003	Annually							2 yearly
	Ethylenediamine tetraacetic acid (EDTA)	0.25		Annually							2 yearly
	Hexachlorobutadiene	0.0007		Annually							2 yearly
	Nitrotriacetic acid (NTA)	0.2		Annually							2 yearly
	Styrene (vinylbenzene)	0.03	0.004	Annually							2 yearly
	Trichlorobenzenes (total)	0.03	0.005	Annually							2 yearly
	Vinyl chloride	0.0003		Annually							2 yearly
	Plasticisers di(2-ethylhexyl) phthalate (DEHP)	0.01						Annually			2 yearly
	Polycyclic aromatic hydrocarbons (PAHs) Benzo(a)-pyrene	0.00001						Annually			2 yearly
Toluene	0.8	0.025				Annually				2 yearly	
Xylene	0.6	0.02				Annually				2 yearly	
Banned pesticides	Tetrachloroethene	0.05		Annually							2 yearly
	Trichloroethylene (TCE)	0.005		Annually							2 yearly
	Aldrin (and dieldrin)	0.0003		Monthly							Annually
	Chlordane	0.002		Monthly							Annually
	DDT	0.009		Monthly							Annually
	Hexachlorobenzene	0.001		Monthly							Annually
	Lindane	0.01		Monthly							Annually
	Amitrole	0.0009		Monthly							Annually
Pesticides	Atrazine	0.0005		Monthly							Annually
	Chlorfenvinphos	0.002		Monthly							Annually
	Clopyralid	2		Monthly							Annually
	2,4-D	0.03		Monthly							Annually
	Diquat	0.007		Monthly							Annually
	Diuron	0.02		Monthly							Annually
	Endosulfan	0.02		Monthly							Annually
	Glyphosate	1		Monthly							Annually
	Heptachlor	0.0003		Monthly							Annually
	Hexazinone	0.4		Monthly							Annually
	MCPA	0.04		Monthly							Annually
	Paraquat	0.02		Monthly							Annually
	Picloram	0.3		Monthly							Annually
	Propiconazole	0.1		Monthly							Annually
	Simazine	0.02		Monthly							Annually
Terbuthylphosphates	0.4		Monthly							Annually	
Triclopyr	0.02		Monthly							Annually	
Radiological characteristics	Gross Alpha	0.5 Bq/L		Quarterly							2 yearly
	Gross Beta	0.5 Bq/L		Quarterly							2 yearly