

Mine site sampling grid

**Definitions:**

Source water sample point  
Treated water  
Distribution water sample point

Consumer water sample point  
Key characteristic  
Normal characteristic

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

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 offtake from a service pipeline directly off the main selected to represent the quality of water supplied to the consumer.  
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 ADWG  
defined by a stable microbiological, chemical or radiological quality measurement that is well below the maximum recommended level  
This sampling grid is a guide for mines supplying fewer than 1000 persons.  
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 ( <i>E. coli</i> )	nil		Weekly					Weekly	Monthly								
	Amoeba ( <i>Naegleria fowleri</i> )	nil						Weekly									Monthly	
Physical characteristics	Dissolved oxygen		>85%			Monthly											6 monthly	
	Hardness		200 mg/L		Quarterly						6 monthly						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	0.001						Monthly								Annually	
	2,4-dichlorophenol	0.2	0.003						Monthly								Annually	
	2,4,6-trichlorophenol	0.02	0.002						Monthly								Annually	
	Trichloroacetaldehyde (chloral hydrate)	0.1							Monthly								Annually	
Other inorganic chemicals	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							6 monthly	
	Hydrogen sulfide		0.05							Monthly							6 monthly	
	Iodide	0.5								Annually							2 yearly	
	Iron		0.3														Fortnightly	
	Lead	0.01								Monthly								Annually
	Lithium	0.073								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	
	Vanadium	0.26								Annually							2 yearly	
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								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	
	Trichlorobenzenes	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		
Tetrachloroethene	0.05								Annually							2 yearly		
Trichloroethylene (TCE)	0.005								Annually							2 yearly		
Banned pesticides	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	
	Amtrite	0.0009							Monthly								Annually	
Pesticides	Atrazine	0.02							Monthly								Annually	
	Chlorfenvinphos	0.002							Monthly								Annually	
	Clpyralid	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		
Temephos	0.4							Monthly								Annually		
Triclopyr	0.02							Monthly								Annually		
Radiological characteristics (*Parameter only tested if Gross Alpha and/or Gross Beta exceed screening values. Please contact the Department of Health for more assistance.)	Gross Alpha	0.5 Bq/L							Quarterly								2 yearly	
	Gross Beta	0.5 Bq/L							Quarterly								2 yearly	