

Recommended Preservation and Container Guide

Parameter	Container	Lab Analysis Portion mL ^(a)	Eurofins mgt Preferred Preservation	Recommended Holding Times
Acidity/Alkalinity	P or G	200	6°C	14 days**
Alcohols	PT	2 x vials	pH<2 (HCl), 6°C, Zero headspace	14 days ⁽³⁾
Ammonia-N	P or G	200	pH<2 (H ₂ SO ₄), 6°C ⁽¹⁾ /site filter and freeze	28 days
BOD ₅	P or G	2 x 500	6°C, Zero headspace	48 Hours
Bromate	P	50	6°C	28 days
Bromide	P	50	6°C	28 days
BTEX plus TPH (>C6-C10)	PT	2 x vials	pH<2 (HCl or H ₂ SO ₄), 6°C, Zero headspace	14 days ⁽³⁾
Carbamates/Dioxins/Furans	G	500	6°C	1 month
Carbon, Total Organic (TOC)	G	100	pH<2 (H ₂ SO ₄ or HCl), 6°C	28 days
Carbon, Dissolved Organic (DOC)	G	100	Field filter at 0.45µm then pH<2 (H ₂ SO ₄ or HCl), 6°C	28 days
Cations	P	50	6°C, pH<2 (HNO ₃)	6 months ^{APHA}
Chlorate	P	50	6°C	7 days
Chloride	P	50	6°C	28 days
Chlorite	P	50	6°C	24 hours ⁽⁵⁾
Chlorine (residual)	-	--	Field test	Note (5)
Chlorophyll-a (Vol PQL dependant)	Dark P	500-2000	Unfiltered Dark, 6°C or Filtered residue	24 Hours ^{##}
Chromium VI (hexavalent Cr)	P	100	filtered, unpreserved / pH 8-9 (NaOH), 6°C ⁽¹⁾	1 day / 28 days ^{(1)APHA}
COD	G	100	pH<2 (H ₂ SO ₄), 6°C ⁽¹⁾	28 days
Colour	P	100	6°C	2 days ^{5S}
Conductivity (EC) or Salinity	P	50	6°C, Zero headspace, 60C	28 days
Cyanide (Total/Amenable)	P	100	pH >12 (NaOH), 6°C Dark	14 days ⁽⁶⁾
Cyanide (Free / WAD)	G	100	Free neutral, WAD pH >12 (NaOH), 60C Dark	14 days ^{(6)##}
Dissolved Oxygen	-	--	Field test	Note (5)
Explosives	G	500	6°C	7 days*
Ferrous/Ferric Iron ⁽⁴⁾	P	100	filtered pH <2 (HCl), 6°C, Dark, Zero Headspace	7 days ^{SO}
Fluoride	P	50	6°C	28 days
Formaldehyde	G	100	6°C	7 days
Glyphosate & AMPA	G, PET	250	6°C - 0.008% Na ₂ S ₂ O ₃ ⁽⁸⁾	14 days
Hardness	P	50	6°C, pH<2 (HNO ₃)	6 months
Iodate	P	50	6°C	1 month
Iodide	P	50	6°C	1 month
Ion Balance	P	500-1000	See Individual Analytes in price book	--
Metals – Total (Recoverable)	P	100	pH<2 (HNO ₃)	6 months
Metals – Dissolved	P	100	Field Filter at 0.45 µm then pH<2 (HNO ₃)	6 months
Mercury – (Total Recoverable)	P	100	pH<2 (HNO ₃)	28 days
Mercury – Dissolved	P	100	Field Filter at 0.45 µm then pH<2 (HNO ₃)	28 days
Methane (Ethane/Ethene)	PT	2 x vials	pH<2 (HCl or H ₂ SO ₄), 6°C, Zero headspace ⁽⁷⁾	14 days
Nitrogen: TKN	P or G	100	pH<2 (H ₂ SO ₄), 6°C ⁽¹⁾	28 days
Nitrate / NOx	P or G	50	unpreserve 6°C / pH<2 (H ₂ SO ₄), 6°C	2 days ^{##} / 7 days
Nitrite	P or G	50	unpreserve 6°C	2 days
Nitrogen: Total N	-	--	TKN and NOx sample bottles are required	--
Oil & Grease	G	2 x 500	pH<2 (H ₂ SO ₄ or HCl), 6°C	28 days
OC/OP Pesticides – see SVOCs	G	see SVOC	6°C	7 days*
PAHs – see SVOCs below	G	see SVOC	6°C	7 days*
PFOS/PFOA/Fluorotelomers	PET	250	6°C add 0.008% Na ₂ S ₂ O ₃ ⁽⁸⁾	14 days
pH / free CO ₂ / total CO ₂	P or G	100	Field Test, 6°C	Note (5)
Phenolics (total)	P or G	100	pH<2 (H ₂ SO ₄), 6°C	28 days ^{APHA}
Phenols – speciated	G	see SVOC	6°C	7 days*
Phenoxy Acid Herbicides	G	500	6°C, pH 1-2 HCl	14 days
Phosphate (ortho)	P or G	50	6°C	2 days ^{##} 1 month filtered ^{SO}
Phosphorus (Total filtered or unfiltered)	P	100	pH<2 (HNO ₃)	1 month
Solids (suspended, dissolved etc)	P	500-1000	6°C	7 days
Sulphate	P	50	6°C	28 days
Sulphide (Total)	P	200	6°C (Zinc Acetate/NaOH pH>9) zero headspace	7 Days
Sulphide (Dissolved)	P	100	6°C	24 hours
Surfactants – anionic (MBAS)	G	250	6°C	2 days
SVOCs including – OCs, OPs, PCBs, PAHs, Phthalates (normal level) plus TPH (>C10-C40)	G	2 x 500	6°C	7 days*
Low or Trace level Organics	G	4 x 500	6°C	7 days*
SVOC's (USEPA 8270 list)	G	see SVOC	6°C	7 days*
TPH (>C6-C10)	PT	As for BTEX no additional vials needed	pH<2 (HCl), 6°C, Zero headspace	14 days ⁽³⁾
TPH (>C10-C40)	G	As for SVOC 'normal' no additional needed	6°C	7 days*
Turbidity	P or G	100	Analyse Immediately, dark, 6°C	48 Hours
VOCs / VHCs / VACs / THMs / MTBEs ^	PT	2xvials	pH<2 (HCl or H ₂ SO ₄), 6°C, Zero headspace ⁽⁷⁾	14 days ⁽³⁾
Microbiological	PET/S	120	6°C	24 hours
Micro' – (in Chlorinated Water) Coliforms - Ecoli	PET/S	500 (4*120)	6°C - 0.008% Na ₂ S ₂ O ₃	24 hours
Micro' – (in Chlorinated Water)	PET/S	120	6°C - 0.008% Na ₂ S ₂ O ₃	24 hours

REFERENCES: APHA 22nd Edition, USEPA SW846, ISO 5667.3, EPA VIC and AS/NZS 5667.1 1998 Please note Maximum HT's may vary upon the guideline document referenced.

NOTES:

- (1) This test may not require preservation if received and analysed within 24 hours of sampling; this must be pre-arranged with the laboratory.
 - (2) We recommend that you provide additional sample on the 1st, 11th, 21st, 31st etc sample for performance of Duplicates / Matrix Spikes. (Note however that Matrix spike are not appropriate for all tests).
 - (3) USEPA recommends 14 days, Australian Standard recommends 7 days.
 - (4) If Dissolved Metals are requested, the Ferrous Iron sample must be field filtered before being preserved
 - (5) This analyte should be determined in the field, these tests will not be measured for compliance to holding time but are analysed on receipt
 - (6) Holding Time is reduced to 24hrs with the presence of sulphides. Contact the laboratory if the presence of sulphides is suspected
 - (7) Sodium Bisulfate is an alternative preservation for VOC analysis upon request
 - (8) If residual chlorine is present then add 0.008% Na₂S₂O₃
- * This holding time requires the samples to be extracted within 7 days and analysed within 40 days.
 ** The Eurofins | mgt aim is to perform these analyses within 2 days (where sufficient time available).
 ## The holding times may be extended to 28 days if the sample is filtered then frozen.
 ^ Excepting vinyl chloride, styrene or 2-chloroethyl vinyl ether, for which the holding time is 7 days with the same preservation

CONTAINERS:

- P = Plastic (HDPE or equivalent, all teflon lined), batch tested
 PT = Purge & Trap VOA Vial (with teflon liner), batch tested
 PET = Plastic (polyterephthalate), batch tested
 PP = Plastic (polypropylene, no Teflon), batch tested
 G = Glass (all teflon lined), batch tested
 P/S = Plastic Sterile, batch tested

Liquid samples are discarded 4 weeks from the date received