

Environment Testing

Recommended Preservation and Container Guide

Parameter	Container	Lab Analysis Portion mL ⁽²⁾	Eurofins Preferred Preservation	Recommended Holding Times
1,4-Dioxane	G	200	Sodium bisulfate (NaHSO ₄), Cool to less than 6°C	28 days
Acidity/Alkalinity	P or G	50	Cool to less than 6°C	14 days**
Alcohols (Methanol, Ethanol)	PT	2 x 40mL VOA vials	pH<2 (HCl), Cool to less than 6°C, Zero headspace	14 days ⁽³⁾
BOD ₅ Bromate	P or G	500 50	Cool to less than 6°C, Zero headspace	48 Hours 28 days
Bromide	P	50	Cool to less than 6°C Cool to less than 6°C	28 days
BTEX plus TPH (>C6-C10)	PT	2 x 40mL VOA vials	pH<2 (HCl or H ₂ SO ₄), Cool to less than 6°C, Zero headspace	14 days ⁽³⁾
Carbamates/Dioxins/Furans	G	500	Cool to less than 6°C	1 month
Carbon, Total Organic (TOC)	G	40	pH<2 (H ₂ SO ₄ or HCl), Cool to less than 6°C	28 days
Carbon, Dissolved Organic (DOC)	G	40	Field filter at 0.45μm then pH<2 (H ₂ SO ₄ or HCl), Cool to less than 6°C	28 days
Cations (Na, Mg, K, Ca)	Р	50	Cool to less than 6°C, pH<2 (HNO ₃)	6 months ^{APHA}
Chlorate Chloride	P P	50 50	Cool to less than 6°C	7 days 28 days
Chlorite	P	50	Cool to less than 6°C Cool to less than 6°C	28 days 24 hours ⁽⁵⁾
Chlorine (residual)	-		Field test	Note (5)
Chlorophyll-a (Vol' LOR dependant)	Dark P	500-2000	Unfiltered Dark, 6°C or Filtered residue	24 Hours"#
Chromium VI (hexavalent Cr)	Р	50	Cool to less than 6°C	1 day
Chromium VI (hexavalent Cr)	Р	60	pH >12 (NaOH), cool to less than 6°C(1)	28 days (1)APHA
COD	G P	100	pH<2 (H ₂ SO ₄), Cool to less than 6°C ⁽¹⁾	28 days
Colour Conductivity (EC) or Salinity	P	50 50	Dark, cool to less than 6°C Cool to less than 6°C	1 day ^{APHA} 28 days
Cyanide (Total/Amenable)	P	60	pH >12 (NaOH), Cool to less than 6°C Dark	14 days ⁽⁶⁾
Cyanide (Free / WAD)	P	60	Free neutral pH, WAD pH >12 (NaOH), Cool to less than 6°C Dark	14 days (6)##
Dissolved Oxygen	-		Field test	Note (5)
Explosives	G	200	Cool to less than 6°C	7 days*
Ferrous/Ferric Iron (4)	P	60	Filtered pH <2 (HCI), Cool to less than 6°C, Dark, Zero Headspace	7 days ^{ISO}
Fluoride Formaldehyde	P	50	Cool to less than 6°C	28 days
Glyphosate & AMPA, Glufosinate	G G, PET	100 250	Cool to less than 6°C Cool to less than 6°C - 0.008% Na ₂ S ₂ O ₃ ⁽⁸⁾	7 days 14 days
Hardness	P P	50	DH<2 (HNO ₃)	6 months
Hardness	Р	50	Cool to less than 6°C	7 days
lodate	Р	50	Cool to less than 6°C	1 month
lodide	Р	50	Cool to less than 6°C	1 month
Ion Balance	Р	500-1000	See Individual Analytes in price book	
Metals – Total (Recoverable) Metals – Dissolved	P P	50 50	pH <2 (HNO₃) Field Filter at 0.45 μm then pH<2 (HNO₃)	6 months 6 months
Mercury – Total (Recoverable)	P	50	pH<2 (HNO ₃)	28 days
Mercury – Dissolved	Р	50	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), Cool to less than 6°C, Zero headspace ⁽⁷⁾	14 days
Nitrogen: Ammonia	Р	60	pH<2 (H ₂ SO ₄), Cool to less than 6°C ⁽¹⁾ /site filter and freeze	28 days
Nitrogen: TKN	Р	60	pH<2 (H ₂ SO ₄), Cool to less than 6°C ⁽¹⁾	28 days
Nitrogen: Nitrate	Р	60	pH<2 (H ₂ SO ₄), Cool to less than 6°C	28 days
Nitrogen: Nitrate	P P	50	Unpreserved, Cool to less than 6°C	2 days
Nitrogen: Nitrite Nitrogen: Total N	P	50 60	Unpreserved, Cool to less than 6°C TKN and NOx sample bottles are required	2 days 28 days
Oil & Grease	G	2 x 250	pH<2 (H ₂ SO ₄ or HCl), Cool to less than 6°C	28 days
OC/OP Pesticides – see SVOCs	G	see SVOC	Cool to less than 6°C	7 days*
PAHs – see SVOCs below	G	see SVOC	Cool to less than 6°C	7 days*
Per- and Polyfluoroalkyl Substances (PFAS)	PET	250	Cool to less than 6°C , no teflon liner	28 days
pH / free CO2 / total CO ₂	P or G	100	Field Test, Cool to less than 6°C	Note (5)
Phenolics (total)	P or G	100	pH<2 (H ₂ SO ₄), Cool to less than 6°C	28 days ^{APHA}
Phenols – speciated Phenoxy Acid Herbicides	G G	see SVOC 200	Cool to less than 6°C	7 days* 14 days
Phosphate (ortho)	P	200 50	Cool to less than 6°C, pH <1-2 HCI	2 days ^{##} 1 month filtered ^{ISO}
Phosphate (Total)	P	60	Cool to less than 6°C pH<2 (H ₂ SO ₄), Cool to less than 6°C	2 days 1 month littered
Solids (suspended, dissolved etc)	P	500-1000	Cool to less than 6°C	7 days
Sulfate	Р	50	Cool to less than 6°C	28 days
Sulfide (Total)	Р	60	Cool to less than 6°C (Zinc Acetate/NaOH pH>9) zero headspace	7 Days
Sulfide (Dissolved)	P	60	Cool to less than 6°C	24 hours
Sulfite	P or G	200	EDTA, zero headspace. Cool to less than 6 °C	2 Days
Surfactants – anionic (MBAS)	G	50	Cool to less than 6°C	2 days
SVOCs including – OCs, OPs, PCBs, PAHs, Phthalates (normal level) plus TPH (>C10-C40)	G	2 x 200	Cool to less than 6°C	7 days*
Low or Trace level Organics		4 x 500		
SVOC's (USEPA 8270 list)	G	see SVOC	Cool to less than 6°C	7 days⁺
Trip Spikes/Blanks for C6-C10/BTEX (prepared in the Lab)	G	Whole vial	pH<2 (HCl), Cool to less than 6°C, Zero headspace	14 days ⁽³⁾
TPH (>C6-C10)	PT	As for BTEX no additional vials needed	pH<2 (HCI), Cool to less than 6°C, Zero headspace	14 days ⁽³⁾
TPH (>C10-C40)	G	As for SVOC 'normal' no additional needed	Cool to less than 6°C	7 days*
Turbidity	P or G	100	Analyse Immediately, dark, Cool to less than 6°C	48 Hours
VOCs / VHCs / VACs / THMs / MTBE^	PT	2x vials	pH<2 (HCl or H ₂ SO ₄), Cool to less than 6°C, Zero headspace ⁽⁷⁾	14 days ⁽³⁾
Microbiological	PET/S	120	Cool to less than 6°C	24 hours
Micro' – (in Chlorinated Water) Coliforms -	PET/S	500 (4*120)	Cool to less than 6°C - 0.008% Na ₂ S ₂ O ₃ .	24 hours
Ecoli Micro' – (in Chlorinated Water)	PET/S	120	Cool to less than 6°C - 0.008% Na ₂ S ₂ O ₃ .	24 hours
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REFERENCES: APHA, USEPA SW846, ISO 5667.3, EPA Vic. IWRG701 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, 11st, 21st, 31st etc sample for performance of Duplicates / Matrix Spikes. (Note however that Matrix Spike determinations are not appropriate for all tests).

 (3) US EPA recommends 14 days, Australian Standard recommends 7 days.

 (4) Ferrous Inon samples must be field filtered.

 (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 24ths with the presence of sulfitted. Contact the laboratory if the presence of sulfitted is suspected.

 (7) Sodium Bisulfate is an alternative preservation for VOC analysis upon request.

 (8) If residual chiorine is present then add 0.08% Nais-50.

 Requires the samples to be extracted within 7 days and the extract analysed within 40 days.

 Eurofins Ing 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 littled then forcem.

 A Excepting vinyl chioride, styrene or 2-chioroethyl vinyl ether, for which the holding time is 7 days with the same preservation.

CONTAINERS:
P = Plastic (HDPE or equivalent, all teflon lined).
PT = Purge & Trap VOA Vial (with teflon liner).
PET = Plastic (toolverthyeneterephthalate)
PP = Plastic (toolvproyelne, no Teflon),
G = Glass (all teflon lined)
PET/S = Plastic Sterile

Liquid samples are discarded 2 weeks from the date received unless otherwise arranged.