



# Bryte Chemical Laboratory

## Sample Containers, Preservation and Holding Times

Method	Analyte	Container	Sample Prep	Sample Size	Preservative	Holding Time
SM 2320B, EPA 310.1	Alkalinity	Polyethylene	Filtered	500 mL	0 - 6°C	14 days
SM 10200H	Chlorophyll	Manila Envelope	Filtered	500	- 20°C	28 days
SM 2510B EPA 120.1	Electrical Conductivity (EC)	Polyethylene	Filtered	500 mL	0 - 6°C	28 days
EPA 200.7	Hardness, Total by Calculation	Polyethylene	Unfiltered	250 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 200.7	ICP Cations, Dissolved	Polyethylene	Filtered	250 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 200.7	ICP Cations, Total	Polyethylene	Unfiltered	250 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 200.8	ICP/MS Trace Metals, Dissolved	Polyethylene	Filtered	500 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 200.8	ICP/MS Trace Metals, Total	Polyethylene	Unfiltered	500 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 200.8	Mercury by ICP/MS	Polyethylene	Filtered	500 mL	pH<2 HNO <sub>3</sub>	28 days
EPA 1631	Low Level Mercury, Dissolved	Glass	Filtered	250 mL	5 mL/L BrCl within 28 days	90 days
EPA 1631	Low Level Mercury, Total	Glass	Unfiltered	250 mL	5 mL/L BrCl within 28 days	90 days
EPA 1638	ICP/MS Trace Metals, Dissolved	Polyethylene	Filtered	500 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 1638	ICP/MS Trace Metals, Total	Polyethylene	Unfiltered	500 mL	pH<2 HNO <sub>3</sub>	6 months
EPA 300.0	IC Anions	Polyethylene	Filtered	500 mL	0 - 6°C	28 days
EPA 300.0	Nitrate, Nitrite	Polyethylene	Filtered	500 mL	0 - 6°C	48 hours
EPA 300.0	Nitrate, Nitrite (DWR mod)	Polyethylene	Filtered	500 mL	0 - 6°C	28 days
SM 4500-NO <sub>3</sub> -F EPA 353.2	Nitrate, Nitrite (Nutrient)	Polyethylene	Filtered	250 mL	0 - 6°C	48 hours
SM 4500-NO <sub>3</sub> -F EPA 353.2	Nitrate, Nitrite (DWR mod)	Polyethylene	Filtered	250 mL	- 20°C	28 days
SM 4500-P-F EPA 365.1	Orthophosphate	Polyethylene	Filtered	250 mL	0 - 6°C	48 hours
SM 4500-P-F EPA 365.1	Orthophosphate (DWR mod)	Polyethylene	Filtered	250 mL	- 20°C	28 days



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Method	Analyte	Container	Sample Prep	Sample Size	Preservative	Holding Time
SM 4500-NH <sub>3</sub> EPA 350.1	Nitrogen, Ammonia (DWR mod)	Polyethylene	Filtered	250 mL	- 20°C	28 days
EPA 351.2	Nitrogen, Kjeldahl, Total (TKN) (DWR mod)	Polyethylene	Unfiltered	250 mL	- 20°C	28 days
EPA 415.3 (D)	Organic Carbon Dissolved (DOC)	Amber, VOA	Filtered	40 mL	0 - 6°C pH<2 H <sub>3</sub> PO <sub>4</sub>	28 days
EPA 415.3 (T)	Organic Carbon Total (TOC)	Amber, VOA	Unfiltered	40 mL	0 - 6°C pH<2 H <sub>3</sub> PO <sub>4</sub>	28 days
EPA 365.4	Phosphorus Total (DWR mod)	Polyethylene	Unfiltered	250 mL	- 20°C	28 days
SM 5710B/ EPA 552.2	Haloacetic Acids Formation Potential (HAA-FP)	Amber, VOA	Filtered	3-40 mL VOAs	0 - 6°C	14 days
SM 2540C EPA 160.1	Solids, Total Dissolved (TDS)	Polyethylene	Filtered	500 mL	0 - 6°C	7 days
EPA 160.2	Solids, Total Suspended (TSS)	Polyethylene	Unfiltered	500 mL	0 - 6°C	7 days
SM 5710B/ EPA 524.2	THM Formation Potential (THMFP)	Amber, VOA	Filtered	3-40 mL VOAs	0 - 6°C	14 days
SM 2310B EPA 180.1	Turbidity	Polyethylene	Unfiltered	500 mL	0 - 6°C	48 hours
SM 5910B	UVA (DWR mod)	Polyethylene	Filtered	250 mL	0 - 6°C	14 days
SM 5210B	BOD/CBOD	Polyethylene	Unfiltered	500 mL	0 - 6°C	48 hours
EPA 524.2	Volatile Organics	Amber, VOA	Unfiltered	3-40 mL VOAs No headspace	0 - 6°C	14 days
EPA 608/614/615	Pesticides/Herbicides	Amber, Glass	Unfiltered	1000 mL	0 - 6°C	7 days

*If you require additional information or clarification,  
please contact Bryte at (916) 375-6008.*



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## Sample Integrity from the Field to Laboratory

Laboratory results can only be as valid as the sampling procedures used to collect the sample.

To prevent sample contamination:

- Do not touch potentially contaminated surfaces.
- Change gloves frequently, especially before filling sample containers.
- Do not touch the sample source.
- Do not touch the inside of the bottle or inside the screw cap.
- Keep containers capped at all times, before filling and immediately after filling.
- Place caps face up on a clean surface when filling the container.
- Do not touch filters or other sample processing equipment with ungloved hands.
- Use “Clean Hands Dirty Hands” techniques for trace level samples.
  - <https://www.youtube.com/watch?v=BIHJFO4pfpl>
- When in doubt, throw it out. If you have any reason to suspect that the sample may have been contaminated during collection, discard the sample and take another sample using a new sample container.
- Return samples to the laboratory promptly after collection. Samples should be transported on ice as soon as possible, within a maximum of 24 hours, keeping the sample temperature at  $< 6^{\circ}\text{C}$  or frozen per method.
- All field QC samples must be processed in the same way as analytical samples in regard to volume, containers, preservation and filtration.
- Requirements of specific projects may vary. Always verify the Data Quality Objectives of your Quality Assurance Project Plan before sampling.