Sample Containers, Preservation and Holding Times

Parameter/Method	Preservative	Sample Holding	Suggested	Type of	Comments
Motala (avgant Ha)	UNO_{1} to $pU < 2$	1 ime	Sample Size	Diastic or class	
Metals (except rig)	For dissolved	0 1110111115	1 L	rinsed with 1 +	
	metals, filter			1 HNO ₃	
	immediately.				
	-				
Alkalinity	Cool, 4°C	24 hours recommend	200 mL	Polyethylene or	Fill container completely
		14 days regulatory (6		Borosilicate	sample agitation and
		hours if Biol. Activity)		glass	prolonged exposure to air.
Ammonia	4°C + H ₂ SO ₄ pH<2 DECHLOR	28 days	500 mL	Plastic or glass	
Biochemical	Analyze 2 hours or	6 hours recommend	1000 mL	Plastic or glass	
Oxygen Demand	4°C.	48 hours regulatory			
Chemical Ovygen	H-SO, pH<2 and	Applyzo ASAP or add	100 mI	Plastic or class	
Demand	$r_{2}SO_4$ pri ~ 2 and cooled to $4^{\circ}C$	Hallyze $H3M$ of add H2SO4 to pH $\leq 2 +$	100 IIIL	T lastic of glass	
Demand		Cool to 4°C			
Chlorine	None, analyze	15 minutes	500 mL	Plastic or glass	
	immediately			C C	
Color	Cool, 4°C	48 hours	500 mL	Plastic or glass	Warm samples to
					room temperature
Common	Concentrated aitait		1 1		Adjust pH to 4.6 with 8N
Copper	Concentrated hitric	o months at room	11.	Acid-washed	KOH before analysis. Do
	<2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 x	temperature		glass of plastic	not exceed pH 6.
Conductivity	Cool, 4°C	28 days	500 mL	Plastic or glass	
	,	,		0	
Dissolved Oxygen	None, analyze	15 min/ In situ	300 mL	Glass or BOD	
	immediately			bottle	
Fecal Coliform &	4°C (1 hour) +	6 hours and 2 hours to	125 mL	Non reactive	Bottles - cleaned &
E. coli	10% Na ₂ S ₂ O ₃ (0.1	process		borosilicate	rinsed carefully, last
	mL)			glass or plastic	rinse with DI, sterilize.
Hardness	Add HNO2 or H2SO4	6 months	100 mI	Diastic or class	Leave air space
riardiless	to pH <2	0 montins	TOO IIIL	Plastic of glass	
Iron	None if analyzing	6 months at room	1 L	Acid-washed	Adjust pH to 3-5 with 5.0N
	Conc. nitric acid (2	temperature		glass or plastic	Correct the test result for
	mL/L) to pH <2 if not.				volume additions.
Lead	Conc. nitric acid (2	6 months at room	1 L	Acid-washed	
Nitrata (chlorinated)	mL/L) to $pH < 2$	temperature	100 mI	glass or plastic	
(chioninated)	acidified	20 days	100 IIIL	T lastic of glass	
Nitrate (non	Cool, 4°C, non-	48 hours	100 mL	Plastic or glass	Analyze ASAP
chlorinated)	acidified			_	
Nitrite	Cool, 4°C	48 hours	100 mL	Plastic or glass	Analyze ASAP, Store
Nitrate + Nituita	$4^{\circ}C + H_{\circ}SO$	28 days	200 mI	Plastic or class	only if necessary
	$4 C + H_2 $	20 days	200 1112	Flastic of glass	
Odor	Cool, 4°C	6 hours	500 mL	Glass	Analyze ASAP
	, 				
Oil and Grease	$4^{\circ}C + H_2SO_4/HCl$	28 days	1000 mL	Glass, wide	
	pH<2			mouth,	
DII	NT		50 T	calibrated	
PH	INOne	15 minutes	50 mL	Plastic or glass	Analyze immediately
Orthophosphate	Filter, Cool 4°C	48 hours	100 mL	Glass rinsed	Warm samples to 15-
Priochume	, 0000, 1 0			with $1 + 1$	25°C before analysis.
				HNO ₃	For dissolved phosp.,
					filter immediately

Solids (TS)	Cool, 4°C	7 days	200 mL	Plastic or glass				
Sulfate	Cool, 4°C	28 days	100 mL	Plastic or glass				
Temperature	None	Immersion Stab.	1 L	Plastic or glass	Analyze immediately			
Total Dissolved Solids	Cool, 4°C	5 days from receipt at laboratory	200 mL	Plastic or glass				
Total Kjeldahl Nitrogen	4°C + H ₂ SO ₄ pH<2 DECHLOR	7 days recommended 28 days regulatory	500 mL	Plastic or glass				
Total Phosphorus	$4^{\circ}C + H_2SO_4$ pH<2	28 days	100	Plastic or glass	Warm samples to 15-25°C and neutralize with 5.0 N NaOH before analysis if acid was added. Correct for volume additions.			
Total Suspended Solids	Cool, 4°C	7 days	200 mL	Plastic or glass				
Turbidity	Cool, 4°C	24 h. recommended 48 h. regulatory	100 mL	Plastic or glass	Analyze same day, store in dark up to 24 h, Cool			
** Information taken from Standard Methods 21st Edition: p. 1-33: Table 1060:I. Summary of Special Sampling and Handling Requirements.								