

Holding Times / Preservatives for Colorado Analytical Laboratory

WASTEWATER					PRESERVATIVE - COLOR CODE
Container	Test	Hold Time	Preservative	Methods	
500 mL CYL	ALKALINITY	14 Days	4°C	SM	- NONE
500 mL CYL	BOD / CBOD / SBOD	48 Hours	4°C	SM	- HNO ₃ - NITRIC ACID
500 mL CYL	CHLORIDE / FLUORIDE / SULFATE	28 Days	4°C	SM	- H ₂ SO ₄ - SULFURIC ACID
500 mL CYL	HEX & TRIVALENT CHROMIUM	24 Hours	4°C	EPA	- NaOH - SODIUM HYDROXIDE
500 mL CYL	NITRATE, NITRITE OR COMBINED	48 Hours	4°C	SM	- Zn(O ₂ CCH ₃) ₂ with NaOH
500 mL CYL	NUTRIENT ANALYSIS	-	4°C		
250 mL CYL	pH	ASAP	4°C	SM	
500 mL CYL	PHOSPHORUS - ORTHO	48 Hours	4°C	SM	
500 mL CYL	SPECIFIC CONDUCTANCE	28 Days	4°C	EPA	
500 mL CYL	TDS/TSS	7 Days	4°C	SM	
500 mL CYL	TOTAL INORGANIC NITROGEN (TIN)*		4°C		
125 mL AMBER	TOTAL RESIDUAL CHLORINE	ASAP	4°C	SM	
500 mL CYL	METALS - TOTAL	180 Days	HNO ₃	EPA/SM	
500 mL CYL	METALS - TOTAL RECOVERABLE	180 Days	HNO ₃	EPA/SM	
500 mL CYL	METALS - POTENTIALLY DISSOLVED	180 Days	HNO ₃	EPA/SM	
500 mL CYL	METALS - DISSOLVED - filter sample 1st	180 Days	HNO ₃	EPA/SM	
500 mL CYL	AMMONIA NITROGEN	28 Days	4°C, H ₂ SO ₄	SM	
500 mL CYL	COD	28 Days	4°C, H ₂ SO ₄	EPA	
1 L GLASS	OIL & GREASE	28 Days	4°C, H ₂ SO ₄	SM/EPA	
1 L GLASS	PHENOLS	28 Days	4°C, H ₂ SO ₄	EPA	
500 mL CYL	TOTAL INORGANIC NITROGEN (TIN)*				
500 mL CYL	TOTAL KJELDAHL NITROGEN (TKN)	28 Days	4°C, H ₂ SO ₄	EPA	
125 mL AMBER	TOC	28 Days	4°C, H ₂ SO ₄	EPA	
500 mL CYL	TOTAL PHOSPHORUS	28 Days	4°C, H ₂ SO ₄	EPA	
500 mL CYL	CYANIDE - TOTAL & WAD	14 Days	NaOH	SM/ASTM	
500 mL CYL	SULFIDE	7 Days	Zn(O ₂ CCH ₃) ₂ + NaOH		
100 mL Sterile	COLIFORM - FECAL / TOTAL / E-COLI	6 Hours	4°C, Na ₂ S ₂ O ₄	SM	
100 mL Sterile	HPC	30 Hours	4°C, Na ₂ S ₂ O ₄	SM	

* Preserved and unpreserved containers required for TIN

DRINKING WATER INORGANICS				
Container	Test	Hold Time	Preservative	Methods
1 L CYL	COPPER / LEAD (COMPLIANCE)	(HNO ₃ Added in Lab)		EPA
500 mL CYL	DOMESTIC WATER QUALITY	-	4°C	
500 mL CYL	FLUORIDE	28 Days	4°C	EPA
500 mL CYL	LANGELIER INDEX	-		SM
500 mL CYL	NITRATE, NITRITE OR COMBINED	48 Hours	4°C	EPA
500 mL CYL	INORGANICS / METALS	180 Days	HNO ₃	EPA
100 mL Sterile	COLIFORM - TOTAL P/A / E-COLI	30 Hours	4°C, Na ₂ S ₂ O ₄	SM
2-40 mL vials	TOC	28 Days	4°C, H ₂ SO ₄	SM

DRINKING WATER ORGANICS				
Container	Test	Hold Time	Preservative	Methods
2-40 mL vials	EDB / DBCP	14 Days	4°C, Na ₂ S ₂ O ₃	504.1
2-40 mL vials	PESTICIDES / PCBs	7 Days	4°C, Na ₂ S ₂ O ₃	505
1-250 mL amber	HERBICIDES	14 Days	4°C, Na ₂ SO ₃	515.4
3-40 mL vials	TOTAL TRIHALOMETHANES (TTHMs)	14 Days	4°C, ascorbic acid, add HCl	524.2
3-40 mL vials	VOLATILE ORGANICS (VOCs)	14 Days	4°C, ascorbic acid, add HCl	524.2
2-1 L Amber	SEMIVOLATILE ORGANICS (SOCs)	14 Days	4°C, Na ₂ SO ₃ , add HCl	525.2
2-40 mL vials	CARBAMATES	28 Days	4°C, Na ₂ S ₂ O ₃ + MCAA	531.1
2-40 mL vials	GLYPHOSATE	14 Days	4°C, Na ₂ S ₂ O ₃	547
1-250 mL amber	ENDOTHALL	7 Days	4°C, Na ₂ S ₂ O ₃	548.1
1-500 mL amber plastic	DIQUAT	7 Days	4°C, Na ₂ S ₂ O ₃ , add H ₂ SO ₄	549.2
1-125 mL amber	HALOACETIC ACIDS (HAA5)	14 Days	4°C, NH ₄ Cl	552.2