

REFERENCE CHART: HOLDING TIME, BOTTLE TYPE, PRESERVATION, MINIMUM VOLUME

Note: Multiple analyses may be run from the same container, provided that the bottle type, volume and preservation are appropriate.

Analytical Parameter	Maximum Holding Time	Required Container Type	Required Preservative	Minimum Amount	
Alkalinity (Bicarb, Carb, Hyd, and Tot); SM 2320 B	14 days	Plastic / Glass	0-6°C	100	mL
Ammonia (NH3 as N); SM 4500NH3 B/C or B/G	28 days	Plastic / Glass	H ₂ SO ₄ pH <2 +0-6°C	200	mL
Anions by EPA 300.0: Chloride (Cl ⁻); Fluoride (F ⁻); Nitrate (as N); Sulfate (SO ₄ ²⁻)	28 days 48 hours (Nitrate)	Plastic / Glass	0-6° C (no temp. req. for Chloride or Fluoride)	100	mL
Asbestos (TEM)	48 hours	Plastic / Glass	0-6°C	1000	mL
Bioassay (Acute Tox) % survival	36 hours	Plastic cubitainer	0-6°C	1-5	gal
Biochemical Oxygen Demand (BOD); SM 5210 B	48 hours	Plastic / Glass	0-6°C	500	mL
Chromium, Hexavalent (CrVI); SM 3500Cr B or EPA 7196	24 hours	Plastic / Glass	0-6°C	200	mL
Chlorine, residual; SM 4500Cl B or G	15 minutes	Field Measurement	-	-	-
Chemical Oxygen Demand (COD); SM 5220 D	28 days	Plastic / Glass	H ₂ SO ₄ pH <2 +0-6°C	50	mL
Chlorophyll A (Algal Biomass) / Pheophytin; SM 10200 H	48 Hours to filter 28 days once filtered	Amber Plastic	0-6°C, unfiltered -20°C, filtered	1	L
	8 hrs - non-potable water	Plastic (sterile)	Na ₂ S ₂ O ₃ + 0-10°C;	100	mL
Coliform, Total / Fecal; SM 9221 B/E	30 hrs – drinking water	,	No regulatory temp. req. for drinking water)		
Coliform, Total / E.Coli; SM 9223 B	8 hrs -non-potable E.Coli	Plastic (sterile)	Na ₂ S ₂ O ₃ + 0-10°C; No	100	mL
(Present/Absent or Quantitray)	30 hrs – drinking water	, ,	regulatory temp. req. for DW		
Color; SM 2120 B	48 hours	Plastic / Glass	0-6°C	100	mL
Conductivity (EC/SC); SM 2510 B	28 days	Plastic / Glass	0-6°C	100	mL
Cyanide Total; SM 4500CN C/E	14 days	Amber plastic with NaOH pH >10 + 0-6°C Pre-treatment for Total Cyanide samples with chlorine or NO ₃ /NO ₂ should be done prior to preservation. Kits can be provided upon request.		100	mL
Cyanide WAD; SM 4500CN I/E	14 days	Amber plastic	NaOH pH >10 + 0-6°C	100	mL
Dissolved Organic Carbon (DOC); SM 5310 B	Filter within 48 hours 28 days	125 mL Amber glass	Filter then add HCl to pH <2 + 0-6°C	50	mL
Dissolved Oxygen (DO); SM 4500O G	15 minutes	Field Measurement or Glass bottle/no headspace Collect in duplicate	0-6°C	500	mL
Enterococcus by Enterolert (SM 9230D)	8 hrs – non-potable water 30 hrs – drinking water	Plastic (sterile)	Na ₂ S ₂ O ₃ + 0-10°C	100	mL
Heterotrophic Plate Count (HPC/SPC); SM 9215E (SimPlate)	8 hours	Plastic (sterile)	Na ₂ S ₂ O ₃ + 0-10°C	100	mL
Hardness (by titration); SM 2340 C	6 months	Plastic / Glass	HNO ₃ pH <2	250	mL
Metals, Dissolved {2}; EPA 200.8	Filter within 15 minutes {2}, 6 months	Plastic / Glass {15}	Filter then add HNO ₃	100	mL
Metals, Total; EPA 200.8 Metals, Total; EPA 6010/6020	6 months	Plastic / Glass {15} Solids in Glass SJ	HNO ₃ pH <2 None	100 1	mL 8oz
Mercury (Hg) EPA 245.1 Mercury (Hg) EPA 7471	28 days	Plastic / Glass Solids in Glass SJ	HNO ₃ pH <2 0-6°C	100 1	mL 8oz
Mercury, Total; EPA 1631 (Aqueous)	48 hours to preserve 90 days once preserved	Glass, Dbl Bagged (not appropriate for samples with solids TSS>200 mg/L)	HCI	100	mL
Mercury, Dissolved {2}; EPA 1631	Filter within 24 hours, Preserve within 48 hours 90 days once preserved	Glass, Dbl Bagged	Filter in lab, then HCl	100	mL
Mercury, Methyl; EPA 1630 (Aqueous)	Preserve {8} within 48 hrs 6 months preserved	Glass, Amber Dbl Bagged	Dark and cool + (HCl or H ₂ SO ₄ {8})	100	mL
Mercury, Methyl; EPA 1630 (Sludge or Solids)	6 months frozen	Solids in Amber Poly SJ	Solids to be Frozen	1	8oz
Mercury, Dissolved {2} Methyl; EPA 1630	Filter & preserve within 48 hrs 6 months once preserved	Glass, Amber Dbl Bagged	Filter in lab, dark and cool + (HCl or H ₂ SO ₄ {8})	100	mL
Nitrate (as N); EPA 300.0	48 hours	Plastic / Glass	0-6°C	100	mL
Nitrite (as N); SM 4500NO2 B	48 hours	Plastic / Glass	0-6°C	100	mL
Nitrate+Nitrite as N (NO ₃ +NO ₂ -N) EPA 353.2, or SM	28 days	Plastic / Glass	H ₂ SO ₄ pH <2 +0-6°C	100	mL
4500-NO3 F Nitrogen, Total Kjeldahl (TKN); SM 4500Norg + SM	28 days	Plastic / Glass	H ₂ SO ₄ pH <2 +0-6°C	200	mL
4500NH3 B	•				
Nitrogen, Total Organic (TON) TKN-NH₃= TON calc	28 days	Plastic / Glass	H ₂ SO ₄ pH <2 +0-6°C	200	mL ml
Odor; SM 2150 B	6 hours (recommended) / 24 hour regulatory	Glass only	0-6°C	1000	mL
Oil & Grease, Total and/or Hydrocarbons EPA 1664	28 days	Glass only-in duplicate	HCl or H ₂ SO ₄ pH<2+0-6°C	500	mL{10
Chlorinated Pesticides & PCBs, EPA 625.1	7 days, Aqueous	Glass Amber Liter - Collect in	0-6°C {5}	1	<u>L</u>
(formerly EPA 608) /8081/8082	14 days, Sludge or Solid	triplicate(6). Solids in Glass SJ	0-6°C	1	8oz



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EPA 625.1 (formerly EPA 614) /8141 14 days, Sludge or Solid triplicate(6). Solids in Glass SJ. 0-6°C 1 802 Semi-volatile Organics: PAHs by EPA 625.1/8270 7 days, Aqueous Glass Amber Liter - Collect in triplicate(6). Solids in Glass SJ. 0-6°C 1 802 Pyrethroid Pesticides GCMS-NCI-SIM/ EPA 8270/625.1 7 days (3 days (9) 14 days, soil or sediment in triplicate(6). Solids in Amber Class SJ. Solids to be Frozen 5 Solids in Amber Class SJ. Solids to be Frozen 1 802 Carbamate Pesticides CAPA 8270/625.1 7 days, Aqueous Glass Amber Liter - Collect in triplicate(6). Solids in Glass SJ. Under Class SJ. O-6°C 1 1 802 Carbamate Pesticides CAPA 8270/625.1 14 days, Solid or sediment triplicate(6). Solids in Amber Class SJ. O-6°C 1 802 Carbamate Pesticides CAPA 8270/625.1 14 days, Solid or sediment triplicate(6). Solids in Glass SJ. O-6°C 1 1 LC-6°C 1	Analytical Parameter	Maximum Holding Time	Required Container Type	Required Preservative	Minimum Amount	
Semi-volatile Organics	Organophosphorus Pesticides			0-6°C {5}	1	L
PAHS by EPA 625.168270		14 days, Sludge or Solid			1	8oz
Pyrethroid Pesticides 7 days /3 days (9) Carbon C	Semi-volatile Organics/	7 days, Aqueous		0-6°C {5}	1	L
Triplicate(i) Triplicate(i	PAHs by EPA 625.1/8270	14 days, Sludge or Solid	triplicate(6). Solids in Glass SJ		1	8oz
Adays Soil or sediment College Carbamate Pesticides 7 days Aqueous 7 days Aqueous 14 days Soildge or Soil Soilds in Amber Glass SJ O-6"C 1 1 1 1 1 1 1 1 1	Durathraid Dacticides	7 days /3 days {9}	Glass Amber Liter - Collect in	0-6°C {5}	1	L
Carbamate Pesticides						
EPA 632/8321						8oz
Volatile Organics 14 days, preserved 14 days, preserved 15 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 14 days except. 3 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 14 days except. 3 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 14 days (Includes Acrolein and Acrylonitrile) 15 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 15 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 15 days unpreserved for Academy (Includes Acrolein and Acrylonitrile) 16 days (Includes Acrolein and Acrylonitrile) 17 days (Includes Acrolein and Acrylonitrile) 18 days (Includes Acrolein and A					-	_
Intriplicate Intr			. ,,			8oz
Volatile Organics 3 days uppreserved for Acrolein (12) 7 days (includes Acrolein and Acrylonitrile) 14 days (aqueous) 15 milled to top 0.6°C 1 days (aqueous) 14 days Sludge/solid 15 milled to top 0.6°C 1 days (aqueous) 15 milled to top 0.6°C 1 days 1 days (aqueous) 15 milled to top 0.6°C 1 days 1 days (aqueous) 1 days (Volatile Organics	14 days, preserved	Glass VOA vial {1} (sample	HCl pH <2 + 0-6°C {4}	40	mL
Volatile Organics PA 624.1 (3) Aday surpreserved for Acrolein (12) 7 days if only unpreserved freceived (11). THMS only—3 HCI VOAs	EPA 524.2 {4}					
Volatile Organics; EPA 8260 {3}	EPA 624.1 {3}	3 days unpreserved for Acrolein {12} 7 days if only unpreserved	6-pack preferred; Two Pres w/ HCI, Two Unpreserved, and Two pH 4-5 {1}	(see holding time for	One 40mL of each container type described	
Volatile Organics; EPA 8260 {3}		14 days (aqueous)		HCl nH <2 + 0-6°C	40	ml
14 days Sludge/solid filled to top 0.6°C 1 80z	Volatile Organics: EPA 8260 (3)	14 days (aqueous)		1101 pri 12 1 0-0 0	40	· · · · ·
TPH Diesel/Motor Oil; EPA 8015 7 days Glass Amber Liter {6} 0-6°C 1 L Tributytin (TBT) 7 days (recommended) Glass Amber Liter {6} HCl pH <2 + 0-6°C 1 L Tributytin (TBT) 7 days (recommended) Glass Amber Liter {6} HCl pH <2 + 0-6°C 1 L The State of the S	Volumo Organico, El 71 0200 (0)	14 days Sludge/solid		0-6°C	1	807
Tributyltin (TBT) 7 days (recommended) Glass Amber Liter {6} HCl pH <2 + 0-6°C 1 L TPH Gas/ BTEX/ MTBE; EPA 8260 14 days preserved Glass VOA vial {1} HCl pH <2 + 0-6°C	TPH Diesel/Motor Oil: FPA 8015	, ,				
TPH Gas/ BTEX/ MTBE; EPA 8260						
Dioxin; EPA 1613						
Perchlorate; EPA 314.0 28 days Plastic/Glass 0-6°C 100 mL pH; SM 4500 H+ B 15 minutes Plastic / Glass 0-6°C 100 mL Phosphate, Ortho (as P); SM 4500P E 48 hours Plastic / Glass 0-6°C 200 mL Phosphate, Ortho, Dissolved (as P); SM 4500P E 48 hours Plastic / Glass 0-6°C 100 mL Phosphate, Ortho, Dissolved (as P); SM 4500P E 15 minutes to filter / 48 hrs once filtered Plastic / Glass 0-6°C 100 mL Phosphorus, Total (as P); SM 4500P B/F or B/E 28 days Plastic / Glass H₂SO₄ pH <2+0-6°C		· · · · · · · · · · · · · · · · · · ·				1
pH; SM 4500 H+ B 15 minutes Plastic / Glass 0-6°C 100 mL Phenols, EPA 420.4 28 days Glass Amber 250 mL H ₂ SO ₄ pH <2 +0-6°C		,				ml
Phenols, EPA 420.4 28 days Glass Amber 250 mL H₂SO₄ pH <2 +0-6°C 200 mL Phosphate, Ortho (as P); SM 4500P E 48 hours Plastic / Glass 0-6°C 100 mL Phosphate, Ortho, Dissolved (as P); SM 4500P E 15 minutes to filter / 48 hrs once filtered Plastic / Glass 0-6°C 100 mL Phosphorus, Total (as P); SM 4500P B/F or B/E 28 days Plastic / Glass H₂SO₄ pH <2+0-6°C		•				
Phosphate, Ortho (as P); SM 4500P E						
Phosphate, Ortho, Dissolved (as P); SM 4500P E 15 minutes to filter / 48 hrs once filtered Plastic / Glass 0-6°C 100 mL Phosphorus, Total (as P); SM 4500P B/F or B/E 28 days Plastic / Glass H₂SO₄ pH <2+0-6°C		,				
Phosphate, Ortho, Dissolved (as P); SM 4500P E 48 hrs once filtered 48 hrs once filtered Phosphorus, Total (as P); SM 4500P B/F or B/E 28 days Plastic / Glass H₂SO₄ pH <2+0-6°C	Thospitate, Offilo (as 1), OW 45001 E					
Solids, Settleable (SS); SM 2540 F 48 hours Plastic / Glass 0-6°C 1000 mL Solids, Total (mg/L or %); SM 2540 B, or SM 2540 G 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Total Dissolved (TDS); SM 2540 C 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Total Suspended (TSS); SM 2540 D 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Volatile Suspended (VSS); SM 2540 E 7 days Plastic / Glass 0-6°C 200 mL Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 + 0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass HCl pH <2 + 0-6°C	Phosphate, Ortho, Dissolved (as P); SM 4500P E		Plastic / Glass	0-0 C	100	IIIL
Solids, Total (mg/L or %); SM 2540 B, or SM 2540 G 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Total Dissolved (TDS); SM 2540 C 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Total Suspended (TSS); SM 2540 D 7 days Plastic / Glass 0-6°C 1000 mL{14 Solids, Volatile Suspended (VSS); SM 2540 D 7 days Plastic / Glass 0-6°C 200 mL Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC PH > 9 +0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Phosphorus, Total (as P); SM 4500P B/F or B/E	28 days	Plastic / Glass	H ₂ SO ₄ pH <2+0-6°C	100	mL
Solids, Total Dissolved (TDS); SM 2540 C 7 days Plastic / Glass 0-6°C 1000 mL[14 Solids, Total Suspended (TSS); SM 2540 D 7 days Plastic / Glass 0-6°C 1000 mL[14 Solids, Volatile Suspended (VSS); SM 2540 E 7 days Plastic / Glass 0-6°C 200 mL Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 +0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Solids, Settleable (SS); SM 2540 F	48 hours	Plastic / Glass	0-6°C	1000	mL
Solids, Total Suspended (TSS); SM 2540 D 7 days Plastic / Glass 0-6°C 1000 mL[14] Solids, Volatile Suspended (VSS); SM 2540 E 7 days Plastic / Glass 0-6°C 200 mL Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 +0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Solids, Total (mg/L or %); SM 2540 B, or SM 2540 G	7 days	Plastic / Glass	0-6°C	1000	mL{14}
Solids, Volatile Suspended (VSS); SM 2540 E 7 days Plastic / Glass 0-6°C 200 mL Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 +0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C		7 days	Plastic / Glass	0-6°C	1000	mL{14}
Sulfide, Dissolved; SM 4500 S2- B/D 7 days Glass 250mL (no headspace) NaOH + AICI ₃ +0-6°C {13} 250 mL Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 +0-6°C 250 mL Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Solids, Total Suspended (TSS); SM 2540 D	7 days	Plastic / Glass	0-6°C	1000	mL{14}
Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 + 0-6°C 250 mL Sulfite (SO3) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL ASTM D3977-97 B - Filtration 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Solids, Volatile Suspended (VSS); SM 2540 E	7 days	Plastic / Glass	0-6°C	200	mL
Sulfide, Total; SM 4500 S2- C/D 7 days Glass (preferred)/plastic (no headspace) NaOH + ZnAC pH > 9 + 0-6°C 250 mL Sulfite (SO3) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL ASTM D3977-97 B - Filtration 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C		7 days	Glass 250mL (no headspace)	NaOH + AICI ₃ +0-6°C {13}	250	mL
Sulfite (SO ₃) 7 days Glass Amber 500 mL EDTA + 0-6°C 250 mL	· · · · · · · · · · · · · · · · · · ·	7 days	Glass (preferred)/plastic			mL
Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C		_		pH >9 +0-6°C		
Surfactants (MBAS); SM 5540 C 48 hours Plastic / Glass 0-6°C 250 mL Suspended Sediment Concentration (SSC) ASTM D3977-97 B - Filtration 120 days (per USGS) Plastic / Glass 0-6°C {7} 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C	Sulfite (SO ₃)	7 days	Glass Amber 500 mL	EDTA + 0-6°C	250	mL
ASTM D3977-97 B - Filtration 120 days (per 0SGS) Plastic / Glass 0-6 C { / } 100 mL Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C			Plastic / Glass	0-6°C	250	mL
Total Organic Carbon (TOC); SM 5310 B 28 days Amber Glass VOA (3 vials) HCl pH <2 + 0-6°C 40 mL Turbidity; SM 2130 B 48 hours Plastic / Glass 0-6°C 100 mL		120 days (per USGS)	Plastic / Glass	0-6°C {7}	100	mL
Turbidity; SM 2130 B 48 hours Plastic / Glass 0-6°C 100 mL	Total Organic Carbon (TOC): SM 5310 B	28 davs	Amber Glass VOA (3 vials)	HCl pH <2 + 0-6°C	40	mL

- {1} Volatile organic samples need to be filled in multiple VOA vials without air bubbles/headspace (≤6 mm in size).
- {2} Dissolved metals require field or lab filtration through 0.45-micron filter prior to preservation. 40 CFR 136.3 requires filtration within 15 minutes.
- (3) Volatile organic methods EPA 624.1 and 8260 require dechlorination using Sodium Thiosulfate (Na₂S₂O₃) at time of sampling if chlorine is present. (Thiosulfate dechlorination bottles are available at the laboratory upon request.) Dechlorination is to occur before transferring to the appropriate VOA.
- (4) Volatile organic method EPA 524.2 requires dechlorination using ascorbic acid at time of sampling if chlorine is present. Ascorbic acid dechlorination kits are available at the laboratory upon request. If analyzing for THMs only, Sodium Thiosulfate (Na₂S₂O₃) may be used, and acidification can be omitted. Otherwise, dechlorinate with Ascorbic acid, then preserve with HCl. If the sample foams vigorously upon addition of HCl, discard and collect unpreserved dechlorinated sample, and notify the laboratory as the samples must be analyzed within 24 hours of collection if they are to be analyzed for any compounds other than THMs. Method 524.2 requires a travel/trip blank with each sample set collected.
- {5} If sampling from a chlorinated location, add 80 mg/L Sodium Thiosulfate (Na₂S₂O₃) per liter and mix well. Any method suitable for field use may be employed to test for residual chlorine (Reference 16). Add more Sodium Thiosulfate if 80 mg/L is insufficient but do not add excess Sodium Thiosulfate.
 {6} Semi Volatile Extractable Organics in Amber Liters (AL) should be collected in enough bottles to ensure the lab can perform method-required Matrix
- **(6)** Semi Volatile Extractable Organics in Amber Liters (AL) should be collected in enough bottles to ensure the lab can perform method-required Matrix Spike/Spike Duplicate (MS/MSD) analyses. While 3 AL per method is recommended, when collecting AL's for multiple methods, the number of AL's per method can be reduced to 2 per method. Please contact your Project Manager if in doubt about number of AL's per sample or method.
- {7} Suspended Sediment Concentration (SSC) requires its own container and the entire contents are used for the analysis.
- (8) Preserve with HCl if less than 10 ppT Salinity, or preserve with H2SO4 if greater than 10 ppT Salinity.
- {9} Cyhalothrin in water has a 3-day hold time in reagent water per USGS study. Permethrin in water has a 3-day hold time per Storage Stability Study by CA Dept. of Food and Agriculture.
- (10) 1L bottle required for lowest available MDL or RL <5 mg/L; 500mL bottle required for RL of 5 mg/L; 250mL bottle recommended for samples with expected concentrations of 20 mg/L or higher.
- {11} If unpreserved, must be analyzed within 7 days of sampling.
- (12) Hold time can be extended to 14 days if preserved to pH 4-5 at time of collection.
- {13} Return sample to laboratory the same day as collection for pH verification, decanting, and further preservation.
- (14) Samples with visible solids may only require 100mL. Samples with no or low visible solids should be collected in 1000mL containers.
- {15} Glass not acceptable for boron.



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