

Table 9.2

Required Containers, Preservation Techniques, and Holding Times for Non-Potable Water Samples and Solid/Hazardous Waste Program Samples (Aqueous Non-Potable Water Matrices), Except Radiochemical Parameters

<u>Parameter</u>	<u>Container (“P” means plastic, hard or soft; “G” means glass, hard or soft.)</u>	<u>Preservation</u>	<u>Maximum Holding Time</u>
Bacterial Tests:			
Coliform (fecal)	P, G	Cool 4°C, 0.008% Na ₂ S ₂ O ₃	6 hours
Coliform (total)	P, G	Cool 4°C, 0.008% Na ₂ S ₂ O ₃	6 hours
Fecal streptococci	P, G	Cool 4°C, 0.008% Na ₂ S ₂ O ₃	6 hours
Inorganic Tests	P, G	Cool 4°C	14 days
Acidity, as CaCO ₃			
Alkalinity as CaCO ₃	P, G	Cool 4°C	14 days
Aluminum-total ³	P, G	HNO ₃ to pH < 2	6 months
Ammonia (as N)	P, G	Cool 4°C H ₂ SO ₄ to pH < 2	28 days
Antimony-total ³	P, G	HNO ₃ to pH < 2	6 months
Arsenic-total ³	P, G	HNO ₃ to pH < 2	6 months
Barium-total ³	P, G	HNO ₃ to pH < 2	6 months
Beryllium-total ³	P, G	HNO ₃ to pH < 2	6 months
Biochemical Oxygen Oxygen Demand	P, G	Cool 4°C	48 hours
Boron-total ³	P, G	HNO ₃ to pH < 2	6 months

Bromide ³	P, G	None required	28 days
Cadmium-total ³	P, G	HNO ₃ to pH < 2	6 months
Calcium-total ³	P, G	HNO ₃ to pH < 2	6 months
Carbonaceous Biochemical Oxygen Demand	P, G	Cool 4°C	48 hours
Chemical Oxygen Demand (COD) Chloride	P, G	Cool 4°C H ₂ SO ₄ to pH < 2	28 days
Chlorine total residual (TRC)	P, G	None required	28 days
Chromium VI (dissolved)	P, G	None required	Analyze Immediately
Chromium-total ³	P, G	Cool 4°C	24 hours
Cobalt-total ³	P, G	HNO ₃ to pH < 2	6 months
Color	P, G	HNO ₃ to pH < 2	6 months
Copper-total ³	P, G	Cool 4°C	48 hours
Cyanide-total ³	P, G	HNO ₃ to pH < 2	6 months
Cyanide amenable to chlorination ³	P, G	Cool 4°C, NaOH to pH > 12 0.6g ascorbic acid	14 days (24 hours when sulfide is present) ²
Fluoride	P	Cool 4°C, NaOH to pH > 12 0.6g ascorbic acid	14 days (24 hours when sulfide is present) ²
Gold-total ³	P, G	None required	28 days
Hardness-total as CaCO ₃	P, G	HNO ₃ to pH < 2	6 months
Hydrogen ion (pH)	P, G	HNO ₃ to pH < 2, H ₂ SO ₄ to pH < 2	6 months
Iridium-total ³	P, G	None required	Analyze Immediately
Iron-total ³	P, G	HNO ₃ to pH < 2	6 months
Kjeldahl & Organic Nitrogen	P, G	HNO ₃ to pH < 2	6 months
Lead-total ³	P, G	Cool 4°C, H ₂ SO ₄ to pH < 2	28 days
Magnesium-total ³	P, G	HNO ₃ to pH < 2	6 months
Manganese-total ³	P, G	HNO ₃ to pH < 2	6 months
Mercury-total ³	P, G	HNO ₃ to pH < 2	28 days

Molybdenum-total ³	P, G	HNO ₃ to pH < 2	6 months
Nickel-total ³	P, G	HNO ₃ to pH < 2	6 months
Nitrate (as N)	P, G	Cool 4°C	48 hours
Nitrate-Nitrite (as N)	P, G	Cool 4°C, H ₂ SO ₄ to pH < 2	28 days
Nitrite (as N)	P, G	Cool 4°C	48 hours
Oil and grease	G	Cool 4°C, HCl or H ₂ SO ₄ to pH < 2	28 days
Organic carbon-total (TOC)	P, G	Cool 4°C, HCl or H ₂ SO ₄ to pH < 2 or phosphoric acid	28 days
Orthophosphate (as P)	P, G	Filter Immediately, Cool 4°C	48 hours
Osmium-total ³	P, G	HNO ₃ to pH < 2	6 months
Oxygen dissolved (probe)	Glass bottle and top	None Required	Analyze Immediately
Oxygen dissolved (Winkler)	Glass bottle and top	Fix on site and store in dark	8 hours
Palladium-total ³	P, G	HNO ₃ to pH < 2	6 months
Petroleum Hydrocarbons	G	HCl to pH 2	7 days
Phenols	G only	Cool 4°C, H ₂ SO ₄ to pH < 2	28 days
Phosphorus (elemental)	G	Cool 4°C	48 hours
Phosphorus-total	P, G	Cool 4°C, H ₂ SO ₄ to pH < 2	28 days
Platinum-total ³	P, G	HNO ₃ to pH < 2	6 months
Potassium-total ³	P, G	HNO ₃ to pH < 2	6 months
Residue-total	P, G	Cool 4°C	7 days
Residue-filterable (TDS)	P, G	Cool 4°C	7 days
Residue-nonfilterable (TSS)	P, G	Cool 4°C	7 days
Residue-settleable	P, G	Cool 4°C	48 hours
Residue-volatile	P, G	Cool 4°C	7 days
Rhodium-total ³	P, G	HNO ₃ to pH < 2	6 months
Ruthenium-total ³	P, G	HNO ₃ to pH < 2	6 months
Salinity	G	Cool 4°C	28 days
Selenium-total ³	P, G	HNO ₃ to pH < 2	6 months
Silica-dissolved	P	Cool 4°C	28 days
Silver-total ³	P, G	HNO ₃ to pH < 2	6 months
Sodium-total ³	P, G	HNO ₃ to pH < 2	6 months
Specific conductance	P, G	Cool 4°C	28 days
Sulfate	P, G	Cool 4°C	28 days
Sulfide	P, G	Cool 4°C, add zinc acetate & NaOH to pH > 9	7 days
Sulfite	P, G	None required	Analyze Immediately
Surfactants	P, G	Cool 4°C	48 hours
Temperature	P, G	None required	Analyze Immediately
Thallium-total ³	P, G	HNO ₃ to pH < 2	6 months
Tin-total ³	P, G	HNO ₃ to pH < 2	6 months
Titanium-total ³	P, G	HNO ₃ to pH < 2	6 months
Turbidity	P, G	Cool 4°C	48 hours
Vanadium-total ³	P, G	HNO ₃ to pH < 2	6 months
Zinc-total ³	P, G	HNO ₃ to pH < 2	6 months
Organic Tests ⁴			
Acenaphthene ⁷	Glass, Teflon®- lined cap	Cool 4° C, 0.008% Na ₂ S ₂ O ₃ Store in dark	7 days until extraction; 40 days after extraction
Acenaphthylene ⁷	Glass, Teflon®- lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ Store in dark	7 days until extraction; 40 days after extraction
Acrolein	Glass, Teflon®- lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ Adjust pH to 4-5 ⁶	14 days

Acrylonitrile	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ Adjust pH to 4-5 ⁶	14 days ⁶
Anthracene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃	7 days until extraction; 40 days after extraction
Benzene	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ HCl to pH 2	14 days
Benzidine ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃	7 days until extraction ⁸
Benzo(a)anthracene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ Store in dark	7 days until extraction; 40 days after extraction
Benzo(a)pyrene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Benzo(b) fluoranthene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Benzo(g,h,i) perylene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Benzo(k) fluoranthene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Benzyl chloride	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	14 days
Benzyl butyl phthalate ⁷	Glass, Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
Bis(2-chloroethoxy) methane ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Bis(2-chloroethyl) ether ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Bis(2-ethylhexyl) phthalate ⁷	Glass, Teflon®-lined cap	Cool 4°C,	7 days until extraction; 40 days after extraction
Bromodichloromethane	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Bromoform	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Bromomethane	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
4-Bromophenylphenyl ether ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Carbon tetrachloride	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
4-Chloro-3-methylphenol ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Chlorobenzene	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Chloroethane	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
2-Chloroethylvinyl ether	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Chloroform	Glass, Teflon®-	Cool 4°C,	14 days

	lined septum	0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	
Chloromethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
2-Chloronaphthalene ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
2-Chlorophenol ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
4-Chlorophenylphenyl ether ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Chrysene ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Dibenzo(a,h)anthracene ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
Dibromochloromethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,2-Dichloro-benzene ⁷	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,3-Dichloro-benzene ⁷	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,4-Dichloro-benzene ⁷	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
3,3'-Dichlorobenzidine ⁷	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	14 days
Dichlorodifluoromethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	14 days
1,1-Dichloroethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,2-Dichloroethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,1-Dichloroethene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
trans-1,2-Dichloroethene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
2,4-Dichlorophenol ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
1,2-Dichloropropane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
cis-1,3-Dichloropropene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
trans-1,3-Dichloropropene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Diethyl phthalate ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
2,4-Dimethylphenol ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Dimethyl phthalate	Glass,Teflon®-	Cool 4°C	7 days until extraction;

Di-n-butyl phthalate ⁷	lined cap Glass, Teflon®-lined cap	Cool 4°C	70 days after extraction; 7 days until extraction;
Di-n-octyl phthalate ⁷	Glass, Teflon®-lined cap	Cool 4°C	40 days after extraction; 7 days until extraction;
2,3-Dinitrophenol ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	40 days after extraction; 7 days until extraction;
2,4-Dinitrotoluene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
2,6-Dinitrotoluene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Epichlorohydrin	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	14 days
Ethylbenzene	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Fluoranthene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Fluorene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Hexachlorobenzene ⁷	Glass, Teflon®-lined cap	Cool 4°C	40 days after extraction; 7 days until extraction;
Hexachlorobutadiene ⁷	Glass, Teflon®-lined cap	Cool 4°C	40 days after extraction; 7 days until extraction;
Hexachlorocyclopentadiene ⁷	Glass, Teflon®-lined cap	Cool 4°C	40 days after extraction; 7 days until extraction;
Hexachloroethane ⁷	Glass, Teflon®-lined cap	Cool 4°C	40 days after extraction; 7 days until extraction;
Ideno(1,2,3-cd)pyrene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Isophorone ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Methylene chloride	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
2-Methyl-4,6-dinitrophenol ⁷	Glass, Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	40 days after extraction; 7 days until extraction;
Naphthalene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
Nitrobenzene ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
2-Nitrophenol ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	40 days after extraction; 7 days until extraction;
4-Nitrophenol ⁷	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	40 days after extraction; 7 days until extraction;
N-Nitrosodimethylamine ^{7, 10}	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
N-Nitrosodi-n-propylamine ^{7, 10}	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	40 days after extraction; 7 days until extraction;
N-Nitrosodiphenylamine ^{7, 10}	Glass, Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	40 days after extraction; 7 days until extraction;

2,2'-Oxybis(1-chloropropane)	Glass,Teflon®-lined cap	Store in dark Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
PCB-1016 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1221 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1232 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1242 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1248 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1254 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
PCB-1260 ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
Pentachlorophenol	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Phenanthrene ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Phenol ⁷	Glass,Teflon®-lined cap	Store in dark Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Pyrene ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	
2,3,7,8-Tetra-chlorodibenzo-p-dioxin ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ Store in dark	7 days until extraction; 40 days after extraction
1,1,2,2-Tetrachloroethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Tetrachloroethene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Toluene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,2,4-Trichlorobenzene ⁷	Glass,Teflon®-lined cap	Cool 4°C	7 days until extraction; 40 days after extraction
1,1,1-Trichloroethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
1,1,2-Trichloroethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Trichloroethene	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
Trichlorofluoromethane	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2 ⁵	14 days
2,4,6-Trichlorophenol ⁷	Glass,Teflon®-lined cap	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹	7 days until extraction; 40 days after extraction
Vinyl chloride	Glass,Teflon®-lined septum	Cool 4°C, 0.008% Na ₂ S ₂ O ₃ ¹ HCl to pH 2	14 days ⁵
Pesticides Tests ⁷			
Aldrin	Glass,Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction

Ametryn	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Aminocarb	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Atraton	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Atrazine	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Azinphos methyl	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Barban	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
alpha-BHC	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
beta-BHC	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
delta-BHC	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
gamma-BHC (Lindane)	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Captan	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Carbaryl	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Carbophenothion	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Chlordane	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Chloroprotham	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
2,4-D	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
4,4'-DDD	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
4,4'-DDE	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
4,4'-DDT	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Demeton-O	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dementon-S	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Diazinon	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dicamba	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dichlofenthion	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dichloran	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dicofol	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dieldrin	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Dioxathion	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Disulfoton	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Diuron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Endosulfan I	Glass, Teflon®-	Cool 4°C,	7 days until extraction;

Endosulfan II	lined cap Glass, Teflon®-lined cap	pH 5-9 ¹⁰ Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Endosulfan Sulfate	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Endrin	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Endrin aldehyde	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Ethion	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Fenuron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Fenuron-TCA	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Heptachlor	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Heptachlor epoxide	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Isodrin	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Linuron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Malathion	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Methiocarb	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Methoxychlor	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Mexacarbate	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Mirex	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Monuron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Monuron-TCA	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Nuburon	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Parathion methyl	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Parathion ethyl	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
PCNB	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Perthane	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Prometron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Prometryn	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Propazine	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;
Propham	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	40 days after extraction 7 days until extraction;

Propoxur	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Secbumeton	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Siduron	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Simazine	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Strobane	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Swep	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
2,4,5-T	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
2,4,5-TP (Silvex)	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Terbuthylazine	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Toxaphene	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction
Trifluralin	Glass, Teflon®-lined cap	Cool 4°C, pH 5-9 ¹⁰	7 days until extraction; 40 days after extraction

References For Table 9.2 Non-Potable Water Samples and Solid/Hazardous Waste Program Samples (Aqueous Non-Potable Water Matrices)

¹ Use only in the presence of residual chlorine.

² Optionally, all samples may be tested with lead acetate paper before pH adjustment in order to determine if sulfide is present. If sulfide is present, it can be removed by the addition of cadmium nitrate powder until a negative spot test is obtained. The sample is filtered and then the NaOH is added to pH 12.

³ Filter samples immediately on-site before adding preservatives for dissolved metals.

⁴ Applies to samples to be analyzed by GC, LC, or GC/MS for specific compounds.

⁵ Sample receiving no pH adjustment shall be analyzed within seven days of sampling.

⁶ The pH adjustment is not required if acrolein will not be measured. Samples for acrolein receiving no pH adjustment shall be analyzed within three days of sampling.

⁷ When the extractable analytes of concern fall within a single chemical Category, the specified preservative and maximum holding times shall be observed for optimum safe guard of sample integrity. When the analyses of concern fall within two or more chemical Categories, the sample may be preserved by cooling to four degrees Celsius, reducing residual chlorine with 0.008 percent Na₂S₂O₃, storing in the dark and (for pesticides only) adjusting the pH to 6 to 9; samples preserved in this manner may be held for seven days before extraction and 40 days after extraction. Exceptions to this optional preservation and holding time procedure are noted in reference 1 (regarding the requirement for thiosulfate reduction of residual chlorine), and references 8 and 9 (regarding the analysis of benzidine).

⁸ Extracts may be stored up to seven days before analysis if storage is conducted under an inert (oxidant-free) atmosphere.

⁹ For the analysis of diphenylnitrosamine, add 0.008 percent Na₂S₂O₃ and adjust pH to 7 to 10 with NaOH within 24 hours of sampling.

¹⁰ The pH adjustment may be performed upon receipt at the environmental laboratory and may be omitted if the samples are extracted within 72 hours of collection. For the analysis of aldrin, add 0.008 percent Na₂S₂O₃.