Table 9.5

Required Containers, Preservation Techniques, and Holding Times for Solid/Hazardous Waste Program Samples

(Soils, Liquids, Sediments, and Sludges)

Parameter	Container	Preservation	Maximum Holding Time
Volatile Organics for soils/sediments, and sludges	Glass, Teflon®-lined cap	Cool 4°C	14 days
Volatile organics for concentrated waste samples	Glass, Teflon®-lined cap	None	14 days
Volatile organics in liquid samples	Glass, Teflon®-lined cap	Cool 4°C, if residual Cl_2 add $Na_2S_2O_3$ and HCl to pH < 2	14 days
Acrolein and Acrylonitrile in liquid samples	Glass, Teflon®-lined cap	Cool 4°C Adjust to pH 4-5	14 days
Semivolatile organics/ organochlorine pesticides/PCBs and herbicides for soils/sediments, and sludges	Glass, Teflon®-lined cap	Cool 4°C	14 days until extraction; 40 days after extraction
Semivolatile organics/ pesticides/ PCBs and herbicides for concentrated waste samples	Glass, Teflon®-lined cap	Cool 4°C	14 days until extraction; 40 days after extraction
Metals except Cr VI and Hg (total) for liquid samples	P, G	Cool 4°C, HNO_3 to pH < 2	6 months
Metals except Cr VI and Hg (dissolved) for liquid samples	P, G	Cool 4°C Filter onsite HNO_3 to pH < 2	6 months
Metals except Cr VI and Hg (suspended) for liquid samples	P, G	Cool 4°C Filter onsite	6 months
Metals except Cr VI and Hg for solid samples	P, G	Cool 4°C	6 months
Chromium VI for solid samples	P, G	Cool 4°C	24 hours
Chromium VI for liquid samples	P, G	Cool 4°C	24 hours
Mercury (total) for liquid samples	P, G	HNO_3 to pH < 2	28 days
Mercury (dissolved) for liquid samples	P, G	Filter onsite HNO_3 to pH < 2	28 days
Mercury (total) for solid samples	P, G	Cool 4°C	28 days