

Test Parameter	Sample Matrix	Container	Minimum Sample Size	Preservative	Holding Time
Microbiology					
Coliform, Total or Faecal	Water & Wastewater	Sterile Container	100 mL	Refrigerate 6 C	8 Hrs EPA compliance 24 Hours
Coliform, Total or Faecal, Chlorinated Water	Water & Wastewater	Sterile Container w/ thiosulfate	100 mL	Refrigerate 6 C	8 Hrs EPA compliance 24 Hours
E. coli	Water & Wastewater	Sterile Container	100 mL	Refrigerate 6 C	8 Hrs EPA compliance 24 Hours
Total coliform or E. coli	Drinking Water	Sterile Container	100 mL	Refrigerate 6 C	8 Hrs EPA compliance 30 Hours
Inorganics and Nutrients					
Acidity, Free	Water & Wastewater	Plastic or Glass	500 mL	Cool 6 C	14 Days
Alkalinity, Total	Water & Wastewater	Plastic or Glass	500 mL	Cool 6 C	14 Days
BOD	Water & Wastewater	Plastic or Glass	650 mL	Cool 6 C	48 Hours
BOD, Carbonaceous	Water & Wastewater	Plastic or Glass	650 mL	Cool 6 C	48 Hours
Chloride	Water & Wastewater	Plastic or Glass	100 mL	None	28 Days
	Solid	Plastic	50 mL	None	28 Days
Chlorine, Residual	Water & Wastewater	Plastic or Glass	500 mL	None	Analyze Immediately
Chlorophyll-a	Water	Amber Glass	1000 mL	Cool 6 C, Dark	48 Hours
Chromium, Hexavalent	Water & Wastewater	Plastic or Glass, rinsed w/ 1:1 HNO ₃	200 mL	Cool 4 C	24 Hours
COD	Water & Wastewater	Plastic or Glass	100 mL	H ₂ SO ₄ to pH<2, Cool 6 C	28 Days
	Solid	Plastic	50 mL	None	28 Days
Color	Water & Wastewater	Plastic or Glass	250 mL	Cool 6 C	48 Hours
Conductance, Specific	Water & Wastewater	Plastic or Glass	500 mL	Cool 6 C	28 Days
	Solid	Plastic	50 mL	None	28 Days
Cyanide, Total	Water & Wastewater	Plastic or Glass	500 mL	NaOH to pH>12, Cool 6 C	14 Days
	Solid	Plastic	50 mL	None	14 Days
Fluoride	Water & Wastewater	Plastic	100 mL	None, Cool 6 C	28 Days
	Solid	Plastic	50 mL	None	28 Days
Hardness, Total	Water & Wastewater	Plastic or Glass	500 mL	HNO ₃ to pH < 2	6 Months
Iodide	Water & Wastewater	Plastic or Glass	500 mL	Cool 6 C	24 Hours
	Water & Wastewater	Plastic or Glass	500 mL	H ₂ SO ₄ to pH<2, Cool 6 C	28 Days
Nitrogen, Kjeldahl Total	Water & Wastewater	Plastic or Glass	500 mL	H ₂ SO ₄ to pH<2, Cool 6 C	28 Days
	Solid	Plastic	50 mL	Cool 6 C	28 Days
Nitrogen, Nitrate + Nitrite	Water & Wastewater	Plastic or Glass	250 mL	H ₂ SO ₄ to pH<2, Cool 6 C	28 Days
	Solid	Plastic	50 mL	Cool 6 C	28 Days
Nitrogen, Nitrate	Water & Wastewater	Plastic or Glass	250 mL	Cool 6 C	48 Hours
	Solid	Plastic	50 mL	Cool 6 C	48 Hours

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Nitrogen, Nitrite	Water & Wastewater	Plastic or Glass	250mL	Cool 6 C	48 Hours
	Solid	Plastic	50mL	Cool 6 C	48 Hours
Nitrogen, Total	Water & Wastewater	Plastic or Glass	250mL	H2SO4 to pH < 2, Cool 6 C	
Nitrogen, Ammonia	Water & Wastewater	Plastic or Glass	500mL	H2SO4 to pH < 2, Cool 6 C	28 Days
	Solid	Plastic	50mL	Cool 6 C	28 Days
Oil & Grease	Water & Wastewater	Amber Glass	1000mL	H2SO4 to pH < 2, Cool 6 C	28 Days
Organic Carbon, Total	Water & Wastewater	Plastic or Glass	500mL	H2SO4 to pH < 2, Cool 6 C	28 Days
	Solid	Plastic	50mL	Cool 6 C	28 Days
Oxygen, Dissolved	Water & Wastewater	Glass Bottle w/top, no headspace	500mL	None	Analyze Immediately
pH	Water & Wastewater	Plastic or Glass	100mL	None	Analyze in 15 min
	Solid	Plastic	50mL	None	Analyze in 15 min
Phaeophytin	Water & Wastewater	Amber Glass	1000mL	Cool 6 C	48 Hours
Phenolics, Total	Water & Wastewater	Amber, Plastic, or Glass	1000mL	H2SO4 to pH < 2, Cool 6 C	28 Days
Phosphorus, Total	Water & Wastewater	Plastic or Glass	500mL	H2SO4 to pH < 2, Cool 6 C	28 Days
	Solid	Plastic	50mL	Cool 6 C	28 Days
Phosphorus, Ortho	Water & Wastewater	Plastic or Glass	500mL	Filter, Cool 6 C	48 Hours, Filter within 15 minutes
	Solid	Plastic	50mL	None	48 Hours
Salinity	Water & Wastewater	Glass	500mL	None	Analyze Immediately
Settleable Matter	Water & Wastewater	Plastic or Glass	1000mL	Cool 6 C	48 Hours
Silica	Water & Wastewater	Plastic	500mL	Cool 6 C	28 Days
Solids, Total	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
	Solid	Plastic	50mL	None	7 Days
Solids, Total Volatile	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
	Solid	Plastic	50mL	None	7 Days
Solids, Total Suspended	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
Solids, Total Settleable	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
Solids, Total Dissolved	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
Solids, Suspended Volatile	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	7 Days
Sulfate	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	28 Days
	Solid	Plastic	50mL	None	28 Days
Sulfide	Water & Wastewater	Amber Glass	500mL	Cool 6 C 2mL Zinc Acetate	7 Days
	Solid	Solid	50mL	None	7 Days
Sulfite	Water & Wastewater	Plastic or Glass	500mL	None	Analyze Immediately
Surfactants	Water & Wastewater	Plastic or Glass	500mL	Cool 6 C	48 Hours
Temperature	Water & Wastewater	Plastic or Glass	100mL	None	Analyze Immediately
Turbidity	Water & Wastewater	Plastic or Glass	250mL	Cool 6 C	48 Hours
Metals					
Metals, General	Water & Wastewater	Plastic or Glass, Rinsed w/ 1:1 HNO3	500mL	HNO3 to pH <2	6 Months
	Solid	Plastic	50mL	Cool 6 C	6 Months
Mercury	Water & Wastewater	Plastic or Glass, Rinsed w/ 1:1 HNO3	500mL	1:1 HNO3 to pH <2	28 Days
	Solid	Plastic	500mL	Cool 6 C	28 Days
Lead	Water & Wastewater	Plastic or Glass	1000mL	HNO3 to pH <2	6 Month
	Drinking Water	Plastic or Glass	1000mL	HNO3 to pH <2	6 Month

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Organic Compounds					
GRO (Gasoline Range Organics), PVOc	Water	(4) 40 mL amber, glass bottle w/ 0.5 mL 1:1 HCL, no headspace	40 mL	4 drops conc. HCL, Cool 6 C	14 Days
	Soil	(2) 60 mL amber, glass bottle w/ 25 mL MeOH	20-35 grams	25 mL Methanol, Cool 6 C	21 Days
DRO (Diesel Range Organics)	Water	(2) 1 L Amber, glass bottle w/ 5.0 mL 1:1 HCL	1 L	5 Ml, HCL, Cool 6 C	7 Days
	Soil	(2) 60 mL amber, glass bottle w/tare weight, no preservative	20-35 grams	Cool 6 C	10 Days
BTEX	Water	(3) 40 mL glass vial w/ septa cap, zero headspace	40 mL	4 drops conc. HCL, Cool 6 C	14 Days
	Soil	(2) 4 oz Amber Glass w/ septa cap, zero headspace	25 grams	Cool 6 C	14 Days
VOCs	Water & Wastewater	(4) 40 mL glass vial w/ septa cap, zero headspace	40 mL	0.5 mL 1:1 HCL	14 Days
	Soil	(2) 60 mL amber	20-35 grams	25 mL MeOH	14 Days
Pesticides, General	Water	(2) Amber Glass w/ TFE septa cap	1 Liter	Cool 6 C	7 Days
	Soil	(1) 4 oz Amber Glass	50 mL	Cool 6 C	14 Days
TCLP, Toxicity Characteristics Leaching	Water	1 L Amber Glass	1 Liter	Cool 6 C	14 Days
	Soil	(2) 4 oz Amber Glass	200 grams	Cool 6 C	14 Days

Solids & Semi-Solid - Microbiology	Matrix	Container	Minimum Sample Size	Preservative	Holding Time
Coliform, Fecal	Semi-solid/Solid	Sterile Container	100 mL	Cool 6 C	8 Hrs EPA compliance 24 Hours
Solids & Semi Solid – Inorganics and Nutrients					
% Solids	Semi-solid/Solid	Plastic or Glass	100 grams	Cool 6 C	7 Days