

WASTEWATER SAMPLING GUIDE

Parameter	Method	Sample Volume	Hold Time*	Container	Preservative
Acidity	SM 2310B	100 ml	14 days	500 ml P	<6°C
Alkalinity	SM 2320B	200 ml	14 days	500 ml P	<6°C
Biological Oxygen Demand (BOD)	SM 5210B	300 ml	48 hours	500 ml P	<6°C
Carbonaceous Biological Oxygen Demand (CBOD)	SM 5210B	300 ml	48 hours	500 ml P	<6°C
Chemical Oxygen Demand (COD)	SM 5220D	50 ml	28 days	500 ml P	<6°C, H ₂ SO ₄
Chloride	SM 4500CI E	200 ml	28 days	500 ml P	None
Chlorine, Total Residual	SM 4500CI G	200 ml	Immediate	500 ml P	None
Coliform, Fecal	SM 9222D	100 ml	6 hours	125 ml P	0.008% Na ₂ S ₂ O ₃ , 4°C
Coliform, Total	SM 9222B	100 ml	6 hours	125 ml P	0.008% Na ₂ S ₂ O ₃ , 4°C
Color	SM 2120B	100 ml	48 hours	9 oz G	<6°C
Conductivity	SM 2510 B	100 ml	28 days	500 ml P	<6°C
Cyanide, Total	SM 4500CN C	500 ml	14 days	1 liter P	<6°C, NaOH
Cyanide, Amenable	SM 4500CN C G	1000 ml	14 days	1 liter P	<6°C, NaOH
Cyanide, Weak and Dissociable	SM 4500CN I	500 ml	14 days	1 liter P	<6°C, NaOH
Fluoride	SM 4500F C	100 ml	28 days	500 ml P	None
Hardness	SM 2340C	50 ml	6 months	500 ml P	HNO ₃ or H ₂ SO ₄
Nitrogen, Ammonia	EPA 350.1	100 ml	28 days	500 ml P	<6°C, H ₂ SO ₄
Nitrogen, Kjeldahl	SM 4500-N B	100 ml	28 days	500 ml P	<6°C, H ₂ SO ₄
Nitrogen, Nitrate/Nitrite	EPA 353.2	200 ml	28 days	500 ml P	<6°C, H ₂ SO ₄
Odor	SM 2150B	500 ml	Immediate	1 liter G	<6°C
Oil and Grease (HEM)	EPA 1664A	1000 ml	28 days	1 liter G	<6°C, HCl or H ₂ SO ₄
Oxygen, Dissolved	SM 4500O G	300 ml	Immediate	500 ml G	None
pH	SM 4500H B	50 ml	Immediate	500 ml P	None
Phenolics	EPA 420.4	500 ml	28 days	1 liter G	<6°C, H ₂ SO ₄
Phosphorous, Ortho	SM 4500P E	100 ml	48 hours	500 ml P	<6°C
Phosphorous, Total	EPA 353.2	100 ml	28 days	500 ml P	<6°C, H ₂ SO ₄
Sulfate	SM 4500SO4 D	100 ml	28 days	500 ml P	<6°C
Sulfide	SM 4500S2 E	100 ml	7 days	500 ml P	<6°C, ZnOAc & NaOH
Sulfite	SM 4500SO3 B	50 ml	Immediate	500 ml P	None

Surfactants, MBAS	SM 5540C	250 ml	48 hours	1 liter P	<6°C
Specific Gravity	SM 2710 F	100 ml	None	500 ml P	<6°C
Total Organic Carbon (TOC)	SM 5310C	100 ml	28 days	500 ml P	<6°C, H ₃ PO ₄ , H ₂ SO ₄ or HCl
Total Organic Halogens (TOX)	SW 9020 B	200 ml	14 days	500 ml P	<6°C, HNO ₃
Total Dissolved Solids	SM 2540C	100 ml	7 days	500 ml P	<6°C
Total Settleable Solids	SM 2540F	1000 ml	48 hours	1 liter P	<6°C
Total Solids	SM 2540B	100 ml	7 days	500 ml P	<6°C
Total Suspended Solids	SM 2540D	100 ml	7 days	500 ml P	<6°C
Total Volatile Solids	SM 2540E	100 ml	7 days	500 ml P	<6°C
Total Volatile Suspended Solids	SM 2540E	100 ml	7 days	500 ml P	<6°C
Turbidity	EPA 180.1	100 ml	48 hours	500 ml P	<6°C
Ion Chromatography Analysis					
Fluoride, Chloride, Bromide, Nitrate, Nitrite, ortho-Phosphate, Sulfate	EPA 300.0	100 ml	See **	500 ml P	<6°C
Metals					
Metals by ICP	EPA 200.7	100 ml	6 months	500 ml P	HNO ₃
Metals by ICP-MS	EPA 200.8	100 ml	6 months	500 ml P	HNO ₃
Mercury by Cold Vapor	EPA 245.1	100 ml	28 days	500 ml P	HNO ₃
Chromium, Hexavalent	SM 3500Cr-D	300 ml	24 hours	500 ml P	None
Organics					
Volatile Organic Compounds	624	5 ml	14 days	2 * 40 ml VOA vial	<6°C, HCL; No head space
Semi-volatile Organic Compounds	625	1000 ml	7 days	2 * 1 liter G	<6°C
Pesticides	608	1000 ml	7 days	2 * 1 liter G	<6°C

* Hold times are calculated from date and time of collection

** Hold times for EPA 300.0 (IC) is 48 hours for Nitrate, Nitrite and ortho-Phosphate. All other anions are 28 days.