

COLLECTION AND PRESERVATION REQUIREMENTS**

General Chemistry Chemistry

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Alkalinity, Total Bicarbonate	B D G S W	SM 2320 B	P / 250	250	14d	None-----None-----4C	
Carbonate	B D G S W	SM 2320 B	P / 250	250	14d	None-----None-----4C	
Asbestos	B D G S	Subcontract	G / 1000	1000	48h	None-----None-----4C	
BOD (Carbonaceous 5 Day)	D G S W	SM 5210B	P / 500	500	48h	None-----None-----4C	
Bromide	B D G S	EPA 300.0 A	P / 120	10	28d	None-----None-----4C	
Carbon Dioxide	B D G S	SM 4500-CO2B	See temperature,	Total dissolved	solids, pH and	alkalinity requirements	
Chloride	B D G S W	EPA 325.2	P / 120	10	28d	None-----None-----4C	
Chlorine, Residual	B D G S W	SM 4500-CL G	P / 500	50	Immediate	None-----None-----4C	(1)
COD	D G S W	SM 5220C	P / 500	100	28d	2 ml----H2SO4-----4C	
Color (Apparent & True)	B D G S	EPA 110.2	P / 500	500	Immediate	None-----None-----4C	
Conductivity	B D G S	EPA 120.1	P / 120	50	28d	None-----None-----4C	
Corrosion Control Water	D	Various	See alkalinity,	Calcium, conductivity,	pH, o-phosphorous,	silica (dissolved) and temperature requirements	
Quality Parameters							
Corrosivity (Langlier Index)	B D	SM 203	See total solids,	temperature,	total hardness,	pH and total alkalinity	Requirements
Cyanide, Total	B D G S W	EPA 335.2	G / 1000	500	14d	1 pellet----NaOH-----4C	(17)
Fluoride	B D G S	EPA 340.2	P / 120	50	28d	None-----None-----4C	
Foaming Agents (MBAS)	B D G S W	SM 5540C	P / 500	100	48h	None-----None-----4C	
Hardness, Calcium, Magnesium	B D G S	EPA 200.7 / 6010	P / 120	100	180d	5 ml/L---1:1 HNO3--4C	(17)
Inorganics, Primary	B D G S	Various	See asbestos,	Cyanide, floride	nitrate and nitrite	requirements	
Inorganics, Secondary	B D G S	Various	See chloride,color	Corrosivity,	fluoride, foaming	agents, odor, pH, TDS	and sulfate requirements

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

* (1) No headspace, (16) Preserved upon receipt; (17) Preserved when shipped

**References: Please see Chapter 20 of this document for references on the sources of this information.

COLLECTION AND PRESERVATION REQUIREMENTS

General Chemistry – con't. Chemistry

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Nitrogen, Ammonia	G S	EPA 350.1	P / 250	100	28d	4 ml/L-----1:1 H2SO4---4C	(17)
Nitrogen, Ammonia	W-Effluent	EPA 350.2	G / 1000	500	28d	4ml/L-----1:1 H2SO4---4C	(17)
Nitrogen, Kjeldahl	G S W	EPA 351.3	P / 500	500	28d	4 ml/L-----H2SO4-----4C	(17)
Nitrogen, Nitrate	B D G S W	EPA 353.2/9056	P / 120	10	48h	None-----None-----4C	
Nitrogen, Nitrate-Nitrite	B D G S W	EPA 353.2/9056	P / 120	100	28d	4 ml/L-----1:1 H2SO4---4C	(17)
Nitrogen, Nitrite	D G S W	EPA 353.2/9056	P / 120	100	48h	None-----None-----4C	
Oil & Grease, Total or Petroleum Hydrocarbons	D G S W	EPA 1664	G / 500	1500	28d	2 ml/L-----H2SO4-----4C	(17)
Odor	SO SE	Subcontract	G / 4 oz	20 g	28d	None-----None-----4C	
	B D G	EPA 140.1	G / 1000	500	Immediate	None-----None-----4C	
Oxygen, Dissolved	B D G S W	EPA 360.1	Test performed	in field	Immediate	None-----None-----	
pH	B D G S W	EPA 150.1	P / 120	25	Immediate	None-----None-----4C	
Phenols, Total	B D G S W	EPA 420.1	G / 1000	1000	28d	2 ml/L-----H2SO4-----4C	
Phosphorus, Ortho	B D G S W	EPA 365.2	P / 120	100	48h	None-----None-----4C	(2)
Phosphorus, Total	W	EPA 365.2	P / 120	100	28d	2 ml/L-----1:1 H2SO4---4C	(17)
Phosphorus, Total	BDGS	EPA 6010/200.7	P / 120	100	28d	2ml/L-----1:1 HNO3---4C	(17)
Silica, as SiO2	D G	SM 4500-SiF	P / 120	50	28d	None-----None-----4C	
Solids, Dissolved	B D G S W	EPA 160.1	P / 250	100	7d	None-----None-----4C	
Solids, Settleable	B D G S W	EPA 160.5	P / 250	100	48h	None-----None-----4C	
Solids, Suspended	B D G S W	EPA 160.2	P / 250	100	7d	None-----None-----4C	
Solids, Total	B D G S W	EPA 160.3	P / 250	100	7d	None-----None-----4C	
Solids, Volatile	B D G S W	EPA 160.4	P / 250	100	7d	None-----None-----4C	
Sulfate	B D G S W	EPA 375.3 / .4/9056	P / 120	100	28d	None-----None-----4C	
Sulfide, Hydrogen	B D G S W	EPA 376.1	Test Performed	in field	Immediate	None-----None	
Sulfide, Total	W	EPA 376.1	P / 500	200	7d	4 dr/100 ml---2 N ZnAc---4C	(17)
Sulfite	W	EPA 377.1	P / 120	100	Not Listed	1 ml/100ml---2.5% EDTA-4C	(1) (17)
Temperature	B D G S W	EPA 170.1	Test performed	in field	Immediate	None-----None-----	
Total Organic Carbon (TOC)	B D G S W	EPA 415.1/9056	Amber G / 250	100	28d	0.75 ml---1:1 H2SO4-----4C	(3) (17)
Total Organic Halogens (TOX)	B D G S W	EPA 9020	(non-CI) G / 250	100	14d	3 ml-----1:1 HNO3-----4C	(4) (17)
			(CI) G / 250	100	14d	1 ml-----10% Na2SO3---4C	(17)
Turbidity	B D G S W	EPA 180.1	P / 120	100	48h	None-----None-----4C	



* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

(1) No headspace; (2) Filter immediately; (3) pH must be < 2, do not add excess H₂SO₄; (4) HNO₃ must be added to pH = 2, NOT < 2; Protect from light; (7) upon receipt, HNO₃ must be added to pH = 2, NOT < 2; (16) Preserved upon receipt; (17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

General Chemistry – con't.

Radionuclides

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Gross Alpha & Beta	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)
Gamma Spectral Analysis	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)
Iodine-131	B D G S	Subcontract	P or G / 1000	1000	7d	3 ml/L---1:1N HNO3---4C	(17)
Radium-226	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)
Radium-228	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)
Radon-222	B D G S	Subcontract	G / 2 x 44.7	30	4d	None-----None-----4C	
Strontium-89 & 90	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)
Tritium	B D G S	Subcontract	G / 1000	1000	6m	None-----None-----4C	
Uranium – 234, 235, & 238	B D G S	Subcontract	P or G / 1000	1000	6m	3 ml/L---1:1N HNO3---4C	(17)

Metals – By Analytical Method

200.7

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Mercury	B D G S W	EPA 245.1	P / 500	100	28d	3 ml/L-1:1 HNO3-Ambient	(17)
All Other Metals		EPA 200.7 / 6010	P / 500	500	6m	3 ml/L-1:1 HNO3-Ambient	(5) (17)

SM 3500-Cr D

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Chromium, Hexavalent	B D G S W	SM 3500-Cr D	P / 500	100	24h	None-----None-----Ambient	

SM 3111B

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Mercury	SO SE	7000 Series	G / 4 oz	20 g	28d	None-----None-----4C	
Chromium, Hexavalent	SO SE	SW 7196	G / 4 oz	20 g	24h	None-----None-----4C	
All Other Metals					6m		

*B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

COLLECTION AND PRESERVATION REQUIREMENTS

Microbiology
Microbiology

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL	MAX HOLD TIME	PRESERVATION AMT----TYPE---TEMP	NOTES
Total Coliform/E. coli - MF	BDS	MI Agar	G or P/120 ml	100 ml	30h	0.1 ml--10% Na2S203-4C	
Total Coliform/E. coli - MF	BDGSW	SM9222B	G or P/120 ml	100 ml	30h	0.1 ml--10% Na2S203-4C	
Total Coliform - RCRA	GS	EPA 9132	G or P/120 ml	100 ml	24h	0.1 ml--10% Na2S203-4C	
Total Coliform - RCRA	SO SE	EPA 9131	G or P/120 ml	25 g	24h	0.1 ml--10% Na2S203-4C	(17)
Total Coliform - MPN	W	SM92221B	G or P/120 ml	25 g or ml	24h	0.1 ml--10% Na2S203-4C	(17)
Fecal Coliform - MF	BDSW	SM9222D	G or P/120 ml	100 ml	24h	0.1 ml--10% Na2S203-4C	
Fecal Coliform - MPN	BDW SO SE	SM9221E	G or P/120 ml	25 g or ml	24h	0.1 ml--10% Na2S203-4C	(17)
Fecal Strep - MF	W	SM9230C	G or P/120 ml	100 ml	24h	0.1 ml--10% Na2S203-4C	
Fecal Strep - MPN	W SO SE	SM9230B	G or P/120 ml	25 g or ml	24h	0.1 ml--10% Na2S203-4C	(17)
Salmonella - MPN	W SO SE	SM9260D	G or P/120 ml	25 g or ml	24h	0.1 ml--10% Na2S203-4C	(17)

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

(17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

Semi-Volatile Organic Chemicals

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Acetanalide Screen	B D G S	Envirogard	Amber G / 3x 40	40	14d	None-----None-----4C	
Acetochlor Screen	B D G S	Envirogard	Amber G / 3x 40	40	14d	None-----None-----4C	
Acid Extractables (Phenols)	G S W	EPA 8270	(non-CL) G / 2x 1000	1000	7d / 40d(ext)	None-----None-----4C	
	SO	EPA 8270	G / 4 oz	20 g	14d	None-----None-----4C	
Acrylamide	B D G S	EPA 8316	(non-CL) AG/ 2x 40	40	14d	None-----None-----4C	
			(CL) AG/ 2x 40	40	14d	0.1 ml--3% Na2S2O3---4C	(17)
Alcohols	B D G S	EHL	G / 2x 40	1 ml	28d	None-----None-----4C	
Aldehydes	B D G S	SM 6252	(non-CL) G / 2x 40	20	48h	None-----None-----4C	
			(CL) G / 2x 40	20	48h	0.1 ml--20% NH4Cl--4C	(17)
			(O3) G / 2x 40	20	48h	0.1 ml--3% Na2S2O3---4C	(17)
Base/Neutral Extractables	G S	EPA 8270	(non-CL) G / 2x 1000	1000	7d / 40d(ext)	None-----None-----4C	
	SO	EPA 8270	G / 4 oz	20 g	14d	None-----None-----4C	
Carbamates – Method List (Herbicides)	B D G S	EPA 531.1 Subcontract	G / 3x 40	40	28d	1.5 ml-----MC-----4C	(17)
- Phase II & V						and 0.1 ml---3% Na2S2O3	(15)
Chlorinated Acids – Method List	B D G S	EPA 515.1	(non-CL) G/1000	1000	14d / 28d(ext)	4 ml----1:1 HCl-----4C	(17)
- Phase II & V							
Chloral Hydrate	B D G S	EPA 551.1	G / 3x 40	40	14d	See Note---See Note---4C	(8)(17)
Dioxin	B D G S	Subcontract	G / 2x 1000	2000	30d	None-----None-----4C	
	B D G S	Subcontract	(non-CL) P / 500	2000	45d	None-----None-----4C	
	B D G S	Subcontract	(CL) P / 500	2000	45d	1 ml 10% Na2S2O3---4C	(17)
Diquat – Diquat/Paraquat	B D G S	EPA 549.1	(non-CL) P / 500	250	7d / 21d(ext)		(6)(12)(17)
			(CL) P / 500	250	7d / 21d(ext)	0.5 ml-10% Na2S2O3--4C	(6)(17)
EDB/DBCP	B D G S	EPA 504.1	G / 44.7	44.7	14d	0.1 ml--3% Na2S2O3---4C	(1)(17)
						and 0.2 ml 1:1 HCl	(17)
ETU	B D G S	EPA 509	Amber G / 2x 44.7	20	14d	None-----None-----4C	
Endothall	B D G S	EPA 548.1	G / 2x 44.7	10	7d / 14d(ext)	0.1 ml--3% Na2S2O3---4C	(17)

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

(1) No headspace; (6) Protect from light; (8) Addition of 0.45 g Phosphate Buffer with Na2SO3

(12) pH must be 2, do not add excess H2SO4; (15) MCA and Na2S2O3 can be mixed before shipment; (17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

Semi-Volatile Org. Chem. con't.

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT----TYPE---TEMP	NOTES
Glyphosate – Glyphosate/AMPA	B D G S	EPA 547	G / 3x 40	40	14d	0.1 ml--3% Na ₂ S ₂ O ₃ ---4C	(17)
Haloacetic Acids	B D G S	SM 6251B	Amber G / 3x 40	40	9d / 21d(ext)	0.5 ml----1% NH ₄ Cl----4C	(6)**(17)
Haloacetonitriles/Haloketones	B D G S	EPA 551.1	G / 3x 40	40	14d	See note-----See note---4C	(9) (17)
Chloropicrin							
Other Miscellaneous Pesticides	B D G S	Various	See requirements for	the method	that pesticides	are added to-----4C	
PAH, Total	SO	EPA 8270	G / 4 oz	20 g	14d	None-----None-----4C	
PAH, Total	GS	EPA 8270	G/2x 1000	1000	7d/ 40d(ext)	None-----None-----4C	
PCB	B D	EPA 505	G / 2x 1000	1000	7d / 40d(ext)	0.1 ml--3% Na ₂ S ₂ O ₃ ---4C	(17)
PCB, Total	G S	EPA 8082	G/ 2x 1000	1000	7d/ 40d(ext)	None-----None-----4C	
PCB, Total	SO	EPA 8082	G / 4 oz	20 g	14d/ 30d(ext)	None-----None-----4C	
Pesticides	G S	EPA 8081	G / 2x 1000	1000	7d / 14d(ext)	None-----None---4C	
- Phase II & V							
Pesticides	B D	EPA 525.2	(non-CL) G / 1000	1000	14d / 40d(ext)	4 ml ---1:1 HCl-----4C	(17)
Phase II & V			(CL) G / 1000	1000	14d / 40d(ext)	0.5 ml-10% Na ₂ S ₂ O ₃ ---4C	(17)
525.1 Method List							
Broad Spectrum							
Industrial Chemicals							
Priority Pollutants	W	EPA 625	(non-CL) G / 1000	1000	7d / 40d(ext)	None-----None-----4C	
			(CL) G / 1000	1000	7d / 40d(ext)	3 ml—10% Na ₂ S ₂ O ₃ ---4C	(17)
Triazine Screen	B D G S	Envirogard	Amber G / 1000	1000	14d	None-----None-----4C	
EHL-L131	B D G S	EHL/L131	Amber G / 500 ml	100 ml	14d	0.5 ml-10% Na ₂ S ₂ O ₃ ---4C	
EHL-HPLC Phenols	B D G S	EHL/HPLC Ph	Amber G / 250 ml	100 ml	7d	0.5 ml-10% Na ₂ S ₂ O ₃ ---4C	

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

** ICR Holding Time – 14 Days to extraction

(6) Protect from light; (9) Addition of 0.45 g Phosphate Buffer with NH₄Cl; (17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
BTEX	G S	SW 8260	G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
	SO	SW 8260	G / 4 oz	20 g	14d	None-----None-----4C	
Total Petroleum Hydrocarbons	D G S W	ME DEP 4.1.25	G / 2x 1000 ml	1000 ml	14d	3 ml-----1:1 HCl-----4C	(1) (17)
--TPH as Diesel	SO	ME DEP 4.1.25	G / 4 oz	30 g	14d	None-----None-----4C	
TPH as Gasoline, Volatile	G S W	ME DEP 4.2.17	G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
	SO	ME DEP 4.2.17	G / 40	10 g	14d	10 ml-----Methanol-----4C	
TPH as Waste or Heavy Oil,	G S W	ME DEP 4.1.25	G / 2x 1000 ml	1000 ml	14d	3 ml-----1:1 HCl-----4C	(1) (17)
--Semi-Volatile	SO	EPA 8270	G / 4 oz	20 g	14d	None-----None-----4C	

Volatile Organics

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
EHL-MIMS-THMs	B D G S	EHL	(non-CL) G / 2x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
			(CL) G / 2x 40	40	14d	0.5 ml-5% Ascorbic acid-4C	(1) (17)
Phase I, II & V, Trihalomethane	B D G S	EPA 524.2	(non-CL) G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
			(CL) G / 2x 40	40	14d	0.5 ml-5% Ascorbic acid-4C	(1) (17)
Maximum Total Trihalomethane	B D G S	EPA 510.1	G / 2x 250	500	14d	None-----None-----4C	(1) (6)
--Formation Potention							
Max Trihalomethane Potential	B D G S	44FR68672Part3	G / 4x 40	120	14d	None-----None-----4C	(1) (6)
Geosmin & MIB	B D G S	SM 6040C	G / 4x 40 ml	40	3d	None-----None-----4C	(1)
Other Miscellaneous Volatiles	B D G S	EPA 524.2/624	(non-CL) G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
			(CL) G / 3x 40	40	14d	0.5 ml-5% Ascorbic acid-4C	(1) (17)
	G S W	EPA 8260 / 624	G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
	SO	EPA 8260	G / 4 oz	20 g	14d	None-----None-----4C	(1)
Priority Pollutants	G S W	EPA 624 / 8260	G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
Septic System	W	EPA 624	G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
Trihalomethane	B D	EPA 5242	(non-CL) G / 3x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
	GS	EPA 8260	(non-CL) G / 3x 40	40	14d	0.2ml-----1:1 HCL-----4C	(1) (17)

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment
(1) No headspace; (6) Protect from light; (17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

**Information Collection Rule (ICR)
Inorganic Analytes**

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Alkalinity, Total	B D G S	SM 2320 B	P / 250	250	14d	None-----None-----4C	
Bromide	B D G S	EPA 300.0	P / 120	10	28d	None-----None-----4C	
Chlorine, Residual (Free)	B D G S	SM 4500-CI G	P / 500	50	Immediate	None-----None-----4C	(1)
Chlorine, Residual (Total)	B D G S	SM 4500-CI G	P / 500	50	Immediate	None-----None-----4C	(1)
Hardness, Calcium	B D G S	EPA 200.7 / 6010	P / 120	100	180d	5 ml/L----1:1 HNO3---4C	(17)
Hardness, Total	B D G S	EPA 200.7 / 6010	P / 120	100	180d	5 ml/L----1:1 HNO3---4C	(17)
Nitrogen, Ammonia	B D G S	EPA 350.1	P / 250	100	28d	4 ml/L----1:1 H2SO4--4C	(17)
	W-Effluent	EPA 350.2	P/1000	500	28d	4ml/L----1:1 H2SO4--4C	(17)
pH	B D G S	EPA 150.1	P / 120	25	Immediate	None-----None-----4C	
Temperature	B D G S	EPA 170.1	Test Performed in field		Immediate	None-----None-----4C	
Total Organic Carbon (TOC)	B D G S	EPA 415.1 EPA 9060	Amber G / 250 Amber G/ 250	100 100	28d 28d	0.75 ml---1:1 H2SO4--4C 0.75 ml----1:1 H2SO4--4C	(13) (17)
Total Organic Halogens (TOX)	G S	EPA 9020	(non-CL) G / 250 (CL) G / 250	100 100	14d 14d	3 ml/L---1:1 HNO3----4C 1 ml/L--10% Na2SO3-4C	(4) (6) (17) (6) (7) (17)
Turbidity	B D G S	EPA 180.1	P / 120	100	48h	None-----None-----4C	

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

(1) No headspace; (4) HNO3 must be added to pH=2, NOT < 2; (6) Protect from light; (7) upon receipt, HNO3 must be added to pH =2; (13) pH must be <=2; (16) Preserved upon receipt; (17) Preserved when shipped

COLLECTION AND PRESERVATION REQUIREMENTS

Information Collection Rule (ICR) – con’t

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Bacillus spore	B D G S	Mod Raw Milk Mtd	G / 1000	200	72h	1 ml--10% Na ₂ S ₂ O ₃ ---4C	(17)
Enteroviruses	B D G S	ICR Protozoan	Contact Laboratory		72h(ext)	None-----None-----2-5C	
Eschericia Coli (P/A)	B D G S W	SM 9223	G or P / 120	100	24h	0.1 ml-10% Na ₂ S ₂ O ₃ -1-5C	(17)
Eschericia Coli (Enumeration)	B D G S W	SM 9213 D	G or P / 120	100	24h	0.1 ml-10% Na ₂ S ₂ O ₃ -1-5C	(17)
Clardia/Cryptosporidium	B D G S	ICR Protozoan	Contact Laboratory		96h(ext)	See note—see note---2-5C	(10)
Total Coliform (P/A)	B D G P S W	SM 9223 B	G or P / 120	100	24h	0.1 ml-10% Na ₂ S ₂ O ₃ -1-5C	(17)
Total Coliform (Enumeration)	B D G P S W	SM 9223 B	G or P / 120	100	24h	0.1 ml-10% Na ₂ S ₂ O ₃ -1-5C	(17)

Organic Analytes

TEST	MATRIX*	ANALYTICAL METHOD	CONT. TYPE SIZE (ml)	MIN SAMPLE VOL (ml)	MAX HOLD TIME	PRESERVATION AMT---TYPE---TEMP	NOTES
Aldehydes	B D G S	SM 6252	(non-CL) G / 2x 40	40	48h / 7d(ext)	None-----None-----4C	
			(CL) G / 2x 40	40	48h / 7d(ext)	0.15 ml—20% NH ₄ Cl---4C	(17)
			(O ₃) G / 2x 40	40	48h / 7d(ext)	0.15 ml—20% NH ₄ Cl---4C	(17)
Chloral Hydrate	B D G S	EPA 551.1	G / 3x 40	40	14d	See note---see note-----4C	(8) (14) (17)
Cyanogen Chloride	B D G S	EPA 524.2	(non-CL) G / 2x 40	40	48h	0.5 ml-5% Ascorbic acid-4C	(1) (17)
			(CL) G / 2x 40	40	48h	0.5 ml-5% Ascorbic acid-4C	(1) (17)
Haloacetic Acids	B D G S	SM 6251	Amber G / 3x 40	40	14d / 7d(ext)	0.5 ml---1% NH ₄ Cl-----4C	(6) ** (17)
Haloacetic Acids	B D G S	EPA 552.2	Amber G / 3x 40	40	14d / 7d(ext)		(6) (17)
Haloacetonitriles/Haloketones/ - Chloropicrin, Thihalomethanes	B D G S	EPA 551.1	G / 3x 40	40	14d / 14d(ext)	See note---see note-----4C	(9) (14) (17)
Thihalomethane	B D G S	EPA 524.2	(non-CL) G / 2x 40	40	14d	0.2 ml-----1:1 HCl-----4C	(1) (17)
			(CL) G / 2x 40	40	14d	0.5 ml-5% Ascorbic acid-4C	(1) (17)
Simulated Distribution System	D	SM 5710 C	Contact Laboratory				

* B=bottled water; D=drinking water; G=groundwater; S=surface water; W=wastewater; SO=solid; SE=sediment

(1) No headspace; (6) Protect from light; (8) Addition of 0.45 g Phosphate Buffer with Na₂SO₃; (9) Addition of 0.45 g Phosphate Buffer with NH₄Cl

(10) Sodium Thiosulfate must be used in the field to remove residual chlorine before filtration of chlorinated finished water; (14) pH must be >=4.5 to <-5.5

(17) Preserved when shipped