

Sample Preservation & Holding times							
Test	Matrix	Hold Time		Volume	Preservation	Container	Method(s)
		Extraction	Analysis				
Microbiology							
Helminth Ova	WW / Sludge / Biosolids	24 hours	30 Days	1L, 100 g	4°C	Plastic (HDPE)	EPA/625/R-92/013
Enteric Virus	WW / Sludge / Biosolids	24 hours	2 weeks	1L, 500 g	-18°C	Plastic (HDPE)	EPA/625/R-92/013 ASTM D4994
Aerobic Plate Count / HPC	WW / DW / Pool	24 hours		100 mL/g	4°C	Plastic (HDPE)	SM 9215 B,C
Biolog ID	WW / DW	24 hours		100 mL/g	<10°C	Plastic (HDPE)	
E.coli / Fecal Coliform MF	WW / DW / Beach	6 hours travel 2 hours in lab		90 mL	<10°C	Plastic (HDPE)	SM 9213 C SM 9222 D
E.coli / Total Coliform MPN	WW / DW	24 hours		100 mL	<10°C	Plastic (HDPE)	SM 9221 E EPA/625/R-92/013
Fecal Coliform MPN Class A & B P/A and QT Total / Fecal Coliforms	WW / Sludge / Biosolids	24 hours		100g; 100 mL	4°C	Plastic (HDPE)	SM 9221 E EPA/625/R-92/013
ReadyCult / Quantitray	WW / DW	30 hours		100 mL	Sodium Thio 4-10°C	Plastic (HDPE)	SM 9223 B
Salmonella	Sludge / Biosolids	24 hours		1 Liter	<10°C	Plastic (HDPE)	EPA 1682
Metals							
FDH ₂ O (As, Pb, Sb, Zn)	WW		6 Months	250 mL	HNO ₃ , pH<2	Plastic (HDPE)	EPA 200.7
TCLP Metals (Ag, As, Ba, Cd, Cr, Pb, Se)	Solid Waste	28 Days	6 Months	> 100 grams	4°C	Plastic (HDPE)	EPA 6010b / 1311
TCLP Hg	Solid Waste	28 Days	28 Days after extraction	> 100 grams		Plastic (HDPE)	EPA 7470 / 1311
ICP/GFAA (Ba, Be, Cd, Cr, Ni, Cu, Fe, Mn, Mo, Zn, Na, Ca, Mg, P, K, As, Pb, Sb, Se, Tl)	WW / DW / Solids		6 Months	125-1000 mL	HNO ₃ , pH<2	Plastic (HDPE)	EPA 200.7 EPA 200.9
Mercury	DW / Soilds	28 Days	28 Days	100 mL, 2 grams	HNO ₃ , pH<2, 4°C	soil @ Plastic (HDPE)	EPA 245.1 EPA 7470

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Inorganics							
Oil & Grease	WW		28 Days	1 Liter	H ₂ SO ₄ , pH<2; 4°C	Glass	EPA 1664
Total Solids/Volatile Solids	WW / Solids		7 Days	100 mL, 100 g	4°C	Plastic (HDPE)	SM 2540 G
Total Suspended Solids (TSS)	WW / DW		7 Days	500 mL	4°C	Plastic (HDPE)	SM 2540-D
Ammonia (NH ₃)	WW / DW		28 Days	250 mL	H ₂ SO ₄ , pH<2, 4°C	Plastic (HDPE)	SM 4500 NH3 D
BOD / CBOD	WW		48 Hours	500 mL	4°C	Plastic (HDPE)	SM 5210
COD	WW / Solids		28 Days	250 mL	H ₂ SO ₄ , pH<2, 4°C	Plastic (HDPE)	EPA 410.4
Fluoride	DW		28 Days	100 mL		Plastic (HDPE)	SM 4500 F-C
Nitrate (NO ₃)	DW / Soilds		2 Days; 28 Days w/acid preservation	100 mL	4°C pH<2 H ₂ SO ₄ ,	Plastic (HDPE)	SM 4500 NO ₃ -D
pH	WW / DW / Solids		24 Hours	500 mL	4°C	Plastic (HDPE)	SM 4500 H+B
TKN	WW / Solids		28 Days	250 mL, 100 g	H ₂ SO ₄ , pH<2, 4°C	Plastic (HDPE)	SM 4500 Norg - B
Cyanide	DW / WW	14 Days	28 Days after extraction	250 mL	NaOH, pH>12, 4°C	Plastic (HDPE)	SM 4500 CN-E
Nitrite (NO ₂)	DW / WW		48 Hours	100 mL	4°C	Plastic (HDPE)	SM 4500 NO ₂ -B
Sulfate (SO ₄)	DW / WW		28 Days	100 mL	4°C	Plastic (HDPE)	SM 4500 SO4 E
Sulfide (S ²⁻)	DW / WW		28 Days	500 mL	Zn-Acetate/NaOH, pH>9, 4°C	Plastic (HDPE)	SM 4500 S2- D
Conductivity	DW / WW		28 Days	100 mL	4°C	Plastic (HDPE)	EPA 120.1
Alkalinity	DW / WW		14 Days	500 mL	4°C	Plastic (HDPE)	SM 2320 B
Chloride	DW / WW		28 Days	500 mL	4°C	Plastic (HDPE)	SM 4500 Cl- B
Chlorine	DW / WW		test immediately	100 mL		Plastic (HDPE)	SM 4500 Cl G
Hardness (Calcium & Total)	DW / WW		6 months	500 mL	Nitric, pH<2, 4°C	Plastic (HDPE)	SM 2340 C

Rev. 4 Updated Micro per doc approval dated 9/2/11

Rev. 5 No temperature requirement for Fluoride preservation

Rev. 6 Updated methodology

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Organics							
VOC's & THM's	DW		14 Days	2x40 mL	Ascorbic Acid HCl, pH<2, 4°C	Glass vial with rubber septum	EPA 524.2
HAA's	DW	14 Days	14 Days after extraction	250 mL	NH ₄ Cl, 4°C	Amber Glass	EPA 552.2
SOC (Pesticides) 525.2	DW	14 Days	30 Days after extraction	1 L	Sodium Sulfite,HCl pH<2, 4°C	Amber Glass	EPA 525.2
SOC (Herbicides) 515.4	DW	14 Days	21 Days after extraction	250 mL	Sodium Thiosulfate 4°C	Amber Glass	EPA 515.4
SOC (Carbamates) 531.1	DW		28 Days	60 mL	Sodium Thiosulfate Monochloroacetic acid buffer; -10°C	Glass vial	EPA 531.1
SOC (EDB, DBCP) 504.1	DW	14 Days	24 hrs after extraction	500 mL	Sodium Thiosulfate 4°C	Glass vial	EPA 504.1
SOC (Diquat) 549.2	DW	7 Days	21 Days after extraction	500 mL	4°C Sodium Thiosulfate H ₂ SO ₄ , pH<2	Amber Plastic (HDPE)	EPA 549.2
SOC (Endothall) 548.1	DW	7 Days	14 Days after extraction	500 mL	Sodium Thiosulfate 4°C	Amber Glass	EPA 548.1
SOC (Glyphosate) 547	DW		6 months	500 mL	Sodium Thiosulfate - 10°C	Amber Glass	EPA 547
SOC (Toxaphene) 505	DW	14 Days	24 hrs after extraction	500 mL	Sodium Thiosulfate 4°C	Amber Glass	EPA 505
TPH	WW	14 days	40 Days after extraction	1 L	4°C	Glass	8015B
TPH	Soil	14 days	40 Days after extraction	4 oz.	4°C	Glass	8015B
PCB's	WW/DW		40 Days after extraction	1 L	4°C	Amber Glass	8082/608
PCB's	Soil		40 Days after extraction	4 oz.	4°C	Glass	8082
BTEX	DW/WW		14 Days	2x40 mL	Ascorbic Acid HCl, pH<2, 4°C	Glass vial with rubber septum	8260B
BTEX	Soil		14 Days	4 oz.	4°C	Glass	8260B
TTO (Total Toxic Organics) Pesticides & Semivolatiles	WW	7 days	40 days from extraction	2 x 1 L	4°C	Amber glass	EPA 608, 625
TTO (Total Toxic Organics) Volatiles	WW		14 days from collection	2x40 mL	Ascorbic Acid HCl, pH<2, 4°C	Glass vial with rubber septum	EPA 624
Hericide & Pesticide Scan	WW/DW	14 days	40 days from extraction	1 L	4°C	Amber glass	EPA 8270C
TCLP Volatiles	Soil	14 days	14 days from extraction	4 oz.	4°C	Glass	EPA 8260B/1311
TCLP Semivolatiles	Soil	14 days	14 days from extraction	4 oz.	4°C	Glass	EPA 8260B/1311

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