

BOTTLE CHART - WASTEWATER/SOLID

REVISED 03/22/2016

PARAMETER	WW METHODS	SW846	WATER BOTTLE TYPE (MINIMUM REQUIRED)	PRESERVATIVE	HOLDING TIME
GENERAL					
Acidity	SM 2310B		½ Gal Plastic (200ml)	Cool <6C	14 days
Alkalinity	SM 2320B		½ Gal Plastic (300ml)	Cool <6C	14 days
Ammonia	EPA 350.1, Rev 2.0		250 Plastic (100ml)	Cool <6C H ₂ SO ₄ < 2	28 days
Biochemical Oxygen Demand	SM 5210 B		½ Gal Plastic (500ml)	Cool <6C	48 hours
Biochemical Oxygen Demand (carbonaceous)	SM 5210B		½ Gal Plastic (500ml)	Cool <6C	48 hours
Bromide	EPA 300.0	9056	½ Gal Plastic (25ml)	None required	28 days
Chemical Oxygen Demand	SM 5220 D	SM 5220 D	250 ml Plastic (100ml)	Cool <6C H ₂ SO ₄ < 2	28 days
Chloride	EPA 300.0, Rev 2.1	9056	½ Gal Plastic (25ml)	Cool <6C	28 days
Chlorine Residual	SM 4500-Cl G		½ Gal Plastic (100ml)	None required	Analyze Immediately
Coliform, Fecal (FMPN)	SM 9221 E	SM 9221 E	100 ml sterile Plastic (50ml)	Cool <10 .008% Na ₂ S ₂ O ₃	6 hours
Color	SM 2120B		Glass Qt	Cool <6C	48 hours
Conductivity	SM 2510 B	9050A	½ Gal Plastic (100ml)	Cool <6C	28 days
Cyanide	SM 4500-CN E	9014	250 ml Plastic (100ml) If amenable need 500 mls	NaOH to >12 Cool <6C	14 days
Fluoride	EPA 300.0, Rev 2.1	9056	½ Gal Plastic (25ml)	None required	28 days
Hardness, Total	SM 2340C		500 ml Plastic (100ml)	<2 w/HNO ₃ or <2 w/ H ₂ SO ₄	180 days
Chromium VI-aqueous	SM 3500-Cr B	EPA Method 7196A	½ Gal Plastic (100ml)	Cool <6C	24 hours
Chromium VI-Soil		EPA 7196A *MOD	9 Oz Soil Jar(4oz)	Cool <6C	180 days
Mercury –Aqueous	EPA 245.1, Rev 3.0	EPA 7470A	500 ml Plastic (100ml)	HNO ₃ < 2	28 days
Mercury –low level	EPA 245.7	EPA 245.7	500ml glass (clean sampling)		28 days

Mercury –Solid		EPA 7471A	9 oz Glass(4oz)		28days
Metals (Except Cr+6)	EPA 200.7 Rev 4.4 / EPA 200.8 Rev 5.4	EPA 6010A / EPA 6020A	500 ml Plastic (100ml)	HNO ₃ < 2	6 months
Metals (Solid)	EPA 200.7 / EPA 200.8	EPA 6010A /EPA 6020A	9 oz Glass(4oz)		6 months
Nitrate or Nitrate Nitrogen	EPA 300.0, Rev 2.1	EPA 9056	½ Gal Plastic (25ml)	Cool <6C	48 hours
Nitrate-Nitrite	EPA 300.0, Rev 2.1	EPA 9056	250 ml plastic (25ml)	Cool <6C H ₂ SO ₄ < 2	28 Days
Nitrogen – Total Organic	TKN-NH ₃ N		250 ml Plastic	Cool <6C H ₂ SO ₄ < 2 or HCl <2	28 days
Oil and Grease	EPA 1664A	9070 A	2 - 1 L Glass	Cool <6C H ₂ SO ₄ < 2	28 days
Orthophosphate	EPA 300.0, Rev 2.1	EPA 9056	½ Gal Plastic (25ml)	Cool <6C Filter Immediately	48 hours
Oxygen Dissolved – Probe	SM 4500-O G		** No Plastic	None Required	Analyze Immediately
pH	SM 4500-H+ B	EPA 9040 C	½ Gal Plastic (100ml)	None required	Analyze Immediately
Phenols	EPA 420.1 (1978)	EPA 9065	250 ml Amber glass (100ml)	Cool <6C H ₂ SO ₄ < 2	28 days
Phosphorus (total)	EPA 365.3		500 ml Plastic (300ml)	Cool <6C H ₂ SO ₄ < 2	28 days
SS% (Residue – settable)	SM 2540 F		½ Gal Plastic (100ml)	Cool <6C	48 hours
Silicon Recoverable	EPA 200.7	EPA 6010A	500 ml Plastic (100ml)	HNO ₃ <2	28 days
Specific Conductance	SM 2510 B	EPA 9050A	½ Gal Plastic (100ml)	Cool <6C	28 days
Sulfate	EPA 300.0, Rev 2.1	EPA 9056	½ Gal Plastic (25ml)	Cool <6C	28 days
Sulfide/water	SM 4500-S ² F	EPA 9034	2ea/250 ml Plastic(500ml)	NaOH >9 ZnAc Plus Cool <6C	7 days
Sulfide/solid		EPA 9031	4oz glass	Cool <6C	14 days
Sulfite	SM 4500-SO ₃ ² B		½ Gal Plastic (100ml)	Cool <6C	Analyze Immediately
Surfactants	SM 5540 C		½ Gal Plastic (500ml)	Cool <6C	48 hours
Silica-Gel Treated Oil and Grease (TPH)	EPA 1664A	9071B Mod	2ea/1 L Glass	H ₂ SO ₄ to <2 Cool <6C	28 days
Temperature	SM 2550 B			None required	Analyze Immediately
Total Kjeldahl Nitrogen	EPA 351.2,Rev 2.0		250 Plastic (100ml)	Cool <6C H ₂ SO ₄ < 2	28 days
Total Organic Carbon/Water	SM 5310C	EPA 9060 A	250 ml Amber Glass (100ml)	H ₂ SO ₄ to <2 Cool <6C	28 days
TDS Residue(Filterable)	SM 2540 C		½ Gal Plastic (100ml)	Cool <6C	7 days
TSS Residue(Non-Filterable)	SM 2540D		½ Gal Plastic (200ml)	Cool <6C	7 days

TR Residue total	SM 2540 B		½ Gal Plastic (100ml)	Cool <6C	7 days
Turbidity	SM 2130 B		½ Gal Plastic (50ml)	Cool <6C	48 hours
VSS (Residue-Volatile)	EPA 160.4		½ Gal Plastic (100ml)	Cool <6C	7 days

HAZARDOUS WASTE CHARACTERIZATION (TCLP + RCI)	Ch 7 & 8 1010 1110 1311 9010A 9030A	7-Glass wide mouth – liq 2-Glass wide mouth – solid	Cool <6C	14 days	
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ORGANICS			ALWAYS GLASS		
BTEX – GC	EPA 602	EPA 8021	2ea/ 40 mL Glass Vial ZHE	Cool <6C HCl <2	14 days
BTEX – GC/MS	EPA 624	EPA 8260B	2ea/ 40 mL Glass Vial ZHE	Cool <6C HCL <2	14 days
BTEX – 5035			5035 sampling kit	Cool	Analyze or Freeze within 48 hours
Herbicides	EPA 615	EPA 8151A	1L Amber Glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
PCB	EPA 608	EPA 8082	1L Amber Glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
PCB – Oil		EPA 8082	40ml Vial	Cool <6C	7 days until ex 40 days after ex
Pesticides	EPA 608	EPA 8081A	1L Amber Glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
Organophosphorus Pesticides	622	8141A	1L Amber Glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
Semi-Volatiles Organics	EPA 625	EPA 8270C	1 L Amber Glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
TOX – Total Organic Halogens – Liq Aquous		EPA 9020B	250 ml Amber Glass (100 ml)	Cool <6C H ₂ SO ₄ < 2	7 days until ex 40 days after ex
TOX – Total Organic Halogens-Oil (TOXO)		EPA 9076	9 Oz Soil Jar	Cool <6C	7 days until ex 40 days after ex
Total Organic Carbon/Solid		Black 90-3	4 oz glass	Cool <6C	28 Days
Total Petroleum Hydrocarbons (SGT)	EPA 1664	9071B	2- 1 L Glass	Cool <6C H ₂ SO ₄ < 2	28 Days
Total Petroleum Hydrocarbon		TX1005 / TX1006	3 – 125 ml glass bottle ZHE	HCl to <2 Cool <6C	7 days until ex 28 days after ex
Total Petroleum Hydrocarbons (DRO)		EPA 8015B MOD	1 L Amber glass (for QC – 3L)	Cool <6C	7 days until ex 40 days after ex
Total Petroleum Hydrocarbons (GRO)		EPA 8015 MOD	2/40 mL Glass Vial ZHE	Cool <6C w/HCl <2	14 days
Volatile Organics		EPA 8260B	2/40 mL Glass Vial ZHE	Cool <6C w/HCl <2	14 days
Voliatile Organics	EPA 624		2/40 mL Glass Vial ZHE	Cool <6C w/ 0.008% Na ₂ S ₂ O ₃	14 days

Radiological					
Radiological- Gross Alpha		Subcontract	2-500 ml Plastic	HNO ₃ to <2	180 days
Radiological- Gross Beta		Subcontract	2-500 ml Plastic	HNO ₃ to <2	180 days
Radiological- Radium 226		Subcontract	2-500 ml Plastic	HNO ₃ to <2	180 days
Radiological- Radium 228		Subcontract	2-500 ml Plastic	HNO ₃ to <2	180 days
Radon			2ea/ 40 mL Glass Vial ZHE	Unpreserved Cool to <6C	3 days

EDA = Ethylenediamine

EDTA = N,N'-1,2-Ethane diylbis-(N-(carboxymethyl)glycine)

HCl = Hydrochloric Acid

HNO₃ = Nitric Acid

H₂SO₄ = Sulfuric Acid

Na₂S₂O₃ = Sodium Thiosulfate

Na₂SO₃ = Sodium Sulfite

NaOH = Sodium Hydroxide

NaHSO₄ = Sodium Bisulfate

ZnAc = Zinc Acetate