

TABLE 4.2 CONTAINER AND PRESERVATIVE REQUIREMENTS BY ANALYSIS

Table 4.2 Container and Preservative Requirements by Analysis				
Analysis	Volume	Holding Time	Container	Preservative
Acidity	100 mL	14 days	Not Specific	A
Alkalinity	100 mL	14 days	Not Specific	A
Ammonia	100 mL	28 days	Not Specific	A;B;C
BOD	1 L	48 hrs	Not Specific	A
CBOD	1 L	48 hrs	Not Specific	A
COD	100 mL	28 days	Not Specific	A;C
Chloride	100 mL	28 days	Not Specific	A
Chlorine	100 mL	15 minutes	Not Specific	--
Chlorophyll-a	1 gallon	48 hrs/ 24 days	Amber	A
Conductivity	100 mL	28 days	Not Specific	A
Cyanide	500 mL	14 days	Not Specific	A;D
DOC	100 mL+	48 hours	Glass amber	A
E. coli	100 mL	8 hours	Sterile	B;L
Enterococcus	100 mL	8 hours	Sterile	B;L
Fecal	100 mL	8 hours	Sterile	B;L
Fluoride	100 mL	28 days	Plastic	A
Hardness	100 mL	6 months	Not Specific	E or C
Hydrogen Sulfide	100 mL	28 days	Not Specific	A;G;N;O
Ignitability	100 mL	28 days	Glass	A;
Color	100 mL	24 hrs	Amber glass or covered plastic to keep out light	A
Chromium VI	100 mL	24 hours H*	Not Specific	A;H;H*
Metals	100 mL	6 months	Not Specific	E
Nitrate	100 mL	48 hrs	Not Specific	A
Nitrate+Nitrite	100 mL	28 days	Not Specific	A; C
Nitrite	100 mL	48 hrs	Not Specific	A
Oil & Grease	1 L	28 days	Glass	A; C or F
pH	100 mL	15 min	Not Specific	--
Phenols	1 L	28 days	Amber Glass	A; C
Total Phosphorus	100 mL	28 days	Not Specific	A; C
Ortho-Phosphorus	100 mL	2 days	Not Specific	A; J
Sulfate	100 mL	28 days	Not Specific	A
Sulfide Reactive	250mL	7 days	Not Specific	A; G; N; O
TS	500 mL	7 days	Not Specific	A

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TSS	500 mL	7 days	Not Specific	A
TDS	250 mL	7 days	Not Specific	A
TKN	100 mL	28 days	Not Specific	A; B; C
MLS	250 mL	7 days	Not Specific	A
Total Coliform	100 mL	30 hours	Sterile	B
TOC	40 mLx 3	28 days	3 VOA vials	A; K(C or F acceptable but not preferred)
Turbidity	100 mL	48 hrs	Not Specific	A
UV 254	100 mL	48 hrs	Not Specific	A
Radiochemistry	1-gallon	1 year	Not specific	A; Arrive at lab within 5 days if unpreserved; else E or F
Organics:				
AOX	100 mL	6 months	4 oz glass**	A; B; E
Carbaryl and Diuron	1L	7 days until extract	Amber glass	A
PCB in water	1 L	7 days until extract	2 L amber *	A
PCB soil	200 g	14 days until extract	8 oz glass *	A
TPH water	2 - 40 mL	14 days	VOA vial	A ;F; G
TPH soil	100 g	14 days	4 oz glass**	A
BTEX-water	40 mL	14 days	2-VOA vial	A;F;G
BTEX-soil	100 g	14 days	4 oz glass**	A
VOA liquid	2 -40 mL	14 days	VOA vial	A;F;G
VOA soil	100 g	14 days	wide mouth**	A;G
SVOA liquid	2 -1L	7 days until extract	1 L amber*	A
SVOA soil	100 g	14 days until extract	4 oz glass**	A
Pesticides liquid	2 - 1 L	7 days until extract	1 L *	A
Pesticides soil	100 g	14 days until extract	4 oz glass**	A
Herbicides liquid	2 - 1 L	7 days until extract	2L or 2-60 mL VOA *	A
Herbicides soil	100 g	14 days until extract	4 oz glass**	A
LA - PCB Sludge	2 L	14 days until extract	1 L *	A

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LA - PCB Cake	1 L	14 days until extract	1 L *	A
Nonylphenol	250mL	28 days until extract	Amber Glass	A;C
Organophosphorus Pesticides	1L	7 days until extract	Amber Glass	A
TTHMs only	2-40 mL	14 days	VOA vial	A;B
HAA5	1 L	14 days	1 L	A;B
RCI water	1 L	7 days until extract	1 L amber *	A
RCI soil	200 g	14 days until extract	8 oz glass *	A
TCLP sludge	4-1L amber	7 days until extract	4-1 L amber *	A
TCLP soil	1L amber	7 days until extract 1L amber *	A	
Hemp	2g	7 days	Not specific	A
Biomonitoring				
Acute Biomonitoring	2L	36h	Not specific	A
Chronic Biomonitoring	2.5L/day	36h M*	Not specific	A
Lithium	15ml	6 months	Polypropylene	E
PFAS	250ml	28 days	Polyethylene	A
-- None required				
* - Teflon lined amber glass				
** - 4 oz glass Teflon lined				
A -Cooled to <6 °C but not frozen				
B -Dechlorinate with 0.008% Na2S2O3 Thiosulfate				
C -pH < 2 with H2SO4 Sulfuric Acid				
D -pH > 12 with NaOH Sodium Hydroxide				
E -pH < 2 with HNO3 Nitric Acid				
F -pH < 2 with HCl Hydrochloric Acid				
G -No headspace; no bubbles breaking pea size rule on liquids				
H -Adjust pH to 9.3-9.7 w/ buffer + 0.6mL 5N NaOH/100mL sample				
H* - Adding Buffer will extend Holding time to 28 days				
I - Ammonium Chloride				
J -Must be field filtered to report without qualification.				
K -pH < 2 Phosphoric Acid				
L -Cool to < 10°C				

Table 4.2 Container and Preservative Requirements by Analysis				
Analysis	Volume	Holding Time	Container	Preservative
M - a minimum of 3 samples collected preferably on days 1 3 & 5				
N -Water Samples: 0.2mL 2N Zinc Acetate per 100mL of sample. Solids: fill surface w/ 2N zinc acetate until moistened.				
O -pH >9 NaOH				