

Any deviations from the preservative requirements must be noted.

Analysis	Minimum			
	Volume	Holding Time	Container	Preservation
Alkalinity	100 ml	14 days	Not Specific	A
Ammonia	100 ml	28 days	Not Specific	A,B,C
BOD	1 L	2 days	Not Specific	A
CBOD	1 L	2 days	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	2 day/24day	Amber	A
Conductivity	100 ml	28 days	Not Specific	A
Cyanide	500 ml	14 hours	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
TKN	100 ml	28 days	Not Specific	A,C
Chromium VI	100 ml	24 hours	Not Specific	A,H
Metals	100 ml	6 months	Not Specific	E
Nitrate	100 ml	2 days	Not Specific	A
Nitrite	100 ml	2 days	Not Specific	A
Oil & Grease	1 L	28 days	Glass	A,C or F
Phenols	1 L	28 days	Amber Glass	A,C
Phosphorus	-	-	-	-
Total	100 ml	28 days	Not Specific	A,C
Ortho	100 ml	2 days	Not Specific	A,J
Sulfate	100 ml	28 days	Not Specific	A
TS	500 ml	7 days	Not Specific	A
TSS	500 ml	7 days	Not Specific	A
TDS	250 ml	7 days	Not Specific	A
TKN	250 ml	28 days	Not Specific	A,B,C
MLSS	250 ml	7 days	Not Specific	A
Total Coliform – Drinking Water	-	-	-	-
Enumeration	100 ml	30 hours	Sterile	B
Colilert	100 ml	30 hours	Sterile	B
TOC	40 ml	28 days	VOA vial	A,C or F
UV 254	100 ml	2 days	Not Specific	A
Radiochemistry	1-gallon	1 year	Not specific	A

Arrive at lab within 5 days if unpreserved, else E or F

Organics Analysis	Minimum			
	Volume	Holding Time	Container	Preservation
PCB water	1 L	7 days till extract	2 L amber *	A
soil	200 g	14 days till extract	8 oz glass *	A
TPH				
water TX1005	2 - 40 ml	14 days	VOA vial	A,F,G
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
soil	100 g	14 days	wide mouth**	A,G
SVOA				
liquid	2 – 1L	7 days till extract	1 L amber*	A
soil	100 g	14 days till extract	4 oz glass**	A
Pesticides				
liquid	2 - 1 L	7 days till extract	1 L *	A
soil	100 g	14 days till extract	4 oz glass**	A
Herbicides				
liquid	2 - 1 L	7 days till extract	2L or 2-60 ml VOA	A
soil	100 g	14 days till extract	4 oz glass**	A
LA - PCB				
Sludge	2 L	14 days till extract	1 L *	A
Cake	1 L	14 days till extract	1 L *	A
TTHMs only 2-40 n	14 days	VOA vial	A,B	
HAA5	1 L	14 days	1 L	A,B
RCI				
water	1 L	7 days till extract	1 L amber *	A
soil	200 g	14 days till extract	8 oz glass *	A
TCLP				
sludge	4-1L amber	7 days till extract	4-1 L amber *	A
soil	1L amber	7 days till extract	1L amber *	A
soil	1L amber	7 days till extract	1L amber *	A

* - Teflon lined amber glass

** - 4 oz glass Teflon lined

A – Cooled to 4 ± 2 °C

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

I - Ammonium Chloride

J – Must be field filtered to report without qualification.

K – pH < 2 Phosphoric Acid

L – Cool to < 10°C

Taken from QA Manual 17