

Analysis	WATER				SOIL	
	Sample Container Type	Preservative	Holding Time	Additional Notes	Sample Container Type	Holding Time
INORGANICS						
Ammonia	250mL plastic	1:1 H ₂ SO ₄	28d		bag (500g min)	7d
Anions (F, Cl, SO ₄ , NO ₂ , NO ₃ , PO ₄)	250mL plastic	N/A	28d (F, Cl, SO ₄); 48h (NO ₂ , NO ₃ , PO ₄)		bag (500g min)	30d*
BOD and CBOD	1L plastic	N/A	48h		N/A	N/A
Cations (B, Ca, Mg, K, Na) (Dissolved, Total)	250mL plastic	1:1 HNO ₃	28d	Dissolved - Preserve only if field filtered	bag (500g min)	180d
Chromium, Hexavalent (Dissolved, Total)	125mL plastic	Ammonium buffer	14d	Dissolved - Preserve only if field filtered	120mL glass jar or bag (120g)	30d
COD	250mL plastic	1:1 H ₂ SO ₄	28d		N/A	N/A
Cyanide (Total, WAD)	250mL plastic	6M NaOH	14d		120mL amber glass jar	N/A
Electrical Conductivity	250mL plastic	N/A	28d		bag (500g min)	30d*
Mercury (Dissolved, Extractable, Total)	2 x 40mL glass vials, solid cap	Contact Lab**	48h		bag (500g min)	28d
Metals (Dissolved, Extractable, Total)	250mL plastic	1:1 HNO ₃	180d	Dissolved - Preserve only if field filtered	bag (500g min)	180d
Microcystin (Total)	125mL amber glass	Sodium Thiosulphate	5d (unfrozen); 14d (frozen)		N/A	N/A
Microtox	125mL amber glass	N/A	3d		250mL glass jar	3d
Oxyhalides (Bromate, Chlorate, Chlorite)	250mL plastic	Ethylenediamine (EDA)	28d (Bromate, Chlorate); 14d (Chlorite)		N/A	N/A
pH	250mL plastic	N/A	As soon as possible		bag (500g min)	30d*
Phenols (4AAP)	125mL amber glass	1:1 H ₂ SO ₄	28d		120mL glass jar	14d
Sulphide	250mL plastic	1M Zinc Acetate and 25% NaOH	7d		N/A	N/A
Total Kjeldahl Nitrogen	250mL plastic	1:1 H ₂ SO ₄	28d		120mL glass jar	28d
Turbidity	250mL plastic	N/A	48h		N/A	N/A
Toxicity Characteristic Leaching Procedure (TCLP)	N/A	N/A	N/A		Solid Wastes - bag (500g min) Liquid Wastes - 500mL glass jar	Phenol-14d; Hg-28d; all other inorganics-180d
ORGANICS						
Alcohols	2 x 40mL glass vials, septa cap	N/A	7d	Zero headspace	120mL glass jar	7d
BTEX/F1/VOC/VPH	2 x 40mL glass vials, septa cap	Sodium Bisulphate	14d	Zero headspace	120mL glass jar 2 x 40mL MeOH vials (except VOC)	7d 14d
Organic Carbon (Dissolved, Total)	125mL amber glass	Phosphoric Acid	28d; 48h for unpreserved Dissolved	Dissolved - Preserve only if field filtered	N/A	N/A
F2-F4/EPH	500mL amber glass	Sodium Bisulphate	14d		120mL glass jar	14d
Flashpoint	500mL amber glass	N/A	7d		120mL glass jar	7d
Glycols	2 x 40mL glass vials, septa cap	N/A	14d		120mL glass jar	14d
Glyphosate	1L amber glass	Sodium Bisulphate	14d		N/A	N/A
Haloacetic acids (HAA)	2 x 40mL amber glass vials, septa	Ammonium Chloride	14d		N/A	N/A
Herbicides	1L amber glass	Sodium Bisulphate	14d		N/A	N/A
Nitritotriacetic acid (NTA)	1L amber glass	Sodium Bisulphate	14d		N/A	N/A
Oil and Grease (Mineral, Dean & Stark)	500mL amber glass	1:1 H ₂ SO ₄	28d		120mL glass jar	28d
Polycyclic Aromatic Hydrocarbons (PAH)	250mL amber glass	Sodium Bisulphate	14d		120mL glass jar	14d
Polychlorinated Biphenyls (PCB)	1L amber glass	N/A	Unlimited		120mL glass jar	Unlimited
Pesticides	1L amber glass	Sodium Bisulphate	14d		N/A	N/A
Toxicity Characteristic Leaching Procedure	N/A	N/A	N/A		500mL glass jar	14d
Trihalomethanes (THM)	2 x 40mL glass vials, septa cap	Sodium Thiosulphate	14d	Zero headspace	N/A	N/A
MICROBIOLOGY						
Coliforms (Total, Fecal, E.coli)/Legionella	250mL sterile plastic	Sodium Thiosulphate	30h	Coliforms & Legionella require separate 250mL containers	N/A	N/A
Heterotrophic Plate Count (HPC)	250mL sterile plastic	Sodium Thiosulphate	24h		N/A	N/A
IRB/SRB/N-Bart/DN-Bart	120mL sterile plastic	N/A	30h		N/A	N/A

*Indefinite hold time once soil is dried. **Request preservative from the lab if samples will not be received within 48h of sampling.

Keep samples at < 10°C after collection and transport to the lab as soon as possible.

The above information is based on Standard Methods, CCME, EPA and other applicable reference methods and is subject to change.

Consult the laboratory for assistance with parameters not listed.