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## SAMPLE CONTAINERS AND PRESERVATION GUIDE

Analysis	WATER				SOIL	
	Sample Volume, Container Type	Preservative	Holding Time	Additional Notes	Min. Sample Volume, Container Type	Holding Time
<b>INORGANICS</b>						
Ammonia	250mL, plastic	1:1 H <sub>2</sub> SO <sub>4</sub>	28d		500g, bag	28d
Anions ( F, Cl, SO <sub>4</sub> , NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> )	250mL, plastic	N/A	28d (F, Cl, SO <sub>4</sub> ); 48h (NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> )		500g, bag	30d*
BOD and CBOD	1L, plastic	N/A	48h		N/A	N/A
Bromate, Chlorate, Chlorite	250mL, plastic	Ethylendiamine (EDA)	28d (Bromate, Chlorate); 14d (Chlorite)		N/A	N/A
Cations (B, Ca, Mg, K, Na)	250mL, plastic	N/A	28d		500g, bag	180d
Chromium Hexavalent (Dissolved, Total)	125mL, plastic	Ammonium buffer	28d	Dissolved Chromium VI - Preserve only if field filtered	50g, glass jar/bag	30d
COD	250mL, plastic	1:1 H <sub>2</sub> SO <sub>4</sub>	7d		N/A	N/A
Cyanide	250mL, plastic	6M NaOH	14d		N/A	N/A
Electrical Conductivity	250mL, plastic	N/A	28d		500g, bag	30d*
Mercury (Dissolved, Extractable, Total)	2 x 40mL glass vials, solid cap	Contact Lab**	48h		50g, bag	28d
Metals (Dissolved, Extractable, Total)	250mL, plastic	1:1 HNO <sub>3</sub>	180d	Dissolved Metals - Preserve only if field filtered	50g, bag	180d
Microcystins	125mL, amber glass	Sodium Thiosulphate	5d (unfrozen); 14d (frozen)		N/A	N/A
Microtox	125mL, glass	N/A	3d		250g, glass	3d
pH	250mL, plastic	N/A	As soon as possible		50g, bag	30d*
Phenols (4AAP)	125mL, glass	1:1 H <sub>2</sub> SO <sub>4</sub>	28d		50g, 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 <sub>2</sub> SO <sub>4</sub>	28d		50g, glass jar/bag	28d
Turbidity	250mL, plastic	N/A	3d		N/A	N/A
Toxicity Characteristic Leaching Procedure (TCLP)	N/A	N/A	N/A		100g, glass jar	Phenol-14d; Hg-28d; all other inorganics- 180d
<b>ORGANICS</b>						
Alcohols	2 x 40mL, glass vials	N/A	7d	Zero headspace	120g, glass jar	7d
BTEX / F1 / VOC	2 x 40mL, glass vials	Sodium Bisulphate	14d	Zero headspace	120g glass jar 2 x 40mL, MeOH vials (BTEX/F1 only)	7d 14d
Organic Carbon (Dissolved, Total)	125mL, glass	N/A	28d		N/A	N/A
F2-F4	500mL, glass	Sodium Bisulphate	14d		120g, glass jar	14d
Flashpoint	500mL, glass	N/A	7d		120g, glass jar	7d
Glycols	2 x 40mL, glass vials	N/A	14d		120g, glass jar	14d
Glyphosate	1L, glass	Sodium Bisulphate	14d		N/A	N/A
Haloacetic acids (HAA)	2 x 40mL, glass vials	Ammonium Chloride	14d		N/A	N/A
Herbicides	1L, glass	Sodium Bisulphate	14d		N/A	N/A
Nitritotriacetic acid (NTA)	1L, glass	Sodium Bisulphate	14d		N/A	N/A
Oil and Grease (Mineral, Dean & Stark)	500mL, glass	1:1 H <sub>2</sub> SO <sub>4</sub>	28d		120g, glass jar	28d
Polycyclic Aromatic Compounds (PAH)	1L, glass	Sodium Bisulphate	14d		120g, glass jar	14d
Polychlorinated Biphenyls (PCB)	1L, glass	N/A	Unlimited		120g, glass jar	Unlimited
Pesticides	1L, glass	Sodium Bisulphate	14d		N/A	N/A
Toxicity Characteristic Leaching Procedure (TCLP)	N/A	N/A	N/A		120g, glass jar	14d
Trihalomethanes (THM)	2 x 40mL, glass vials	Sodium Thiosulphate	14d	Zero headspace	N/A	N/A
<b>MICROBIOLOGY</b>						
Coliforms (Total, Fecal, E.coli)	250mL, sterile plastic	Sodium Thiosulphate	30h		N/A	N/A
Heterotrophic Plate Count (HPC)	250mL, sterile plastic	Sodium Thiosulphate	24h		N/A	N/A

\*Indefinite hold time once soil is dried. \*\*Request preservative from 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 the parameters not listed.