



Sampling / Handling Guide - Water

O.Reg 153/04, July 1, 2011 Amendments

Parameters	Container	Typical Volume	Field Preservation	ALS Ontario Preserved Holding Time
BTEX, PHCS(F1),THMs,VOC, 1,4-Dioxane	Glass Vials, no headspace	3 x 40 mL	Sodium Bisulfate to pH<2 no headspace	14 days
PHCs (F2-F4)	Glass, amber Vials	2 x 60 mL	Sodium Bisulfate to pH<2 Fill to top of label only	40 days
ABNs ** Chlorophenols**	Glass, amber, TEF	1 x 500 mL	None	14 days
PAHs **	Glass, amber, TEF	2 x 250 mL	None Fill to top of label only	14 days
OC Pesticides	Glass, amber, TEF	1 x 1 L	None	14 days
PCBs	Glass, amber, TEF	2 x 250 mL	None Fill to top of label only	14 days
Benzo(a)pyrene (Lab Filtered)	Glass, amber, TEF	2 x 250 mL	None	14 days
Metals - Dissolved	HDPE	1 X 125- 250 mL	0.45 um field filter Nitric acid to pH<2	60 days must be field filtered and preserved
Cyanide-WAD	HDPE	145 mL Red Cap	Sodium Hydroxide to pH>12	14 days - no filtration - must be field preserved. No option for unpreserved sample
Chromium, Hexavalent	HDPE	125 mL	0.45um field filter followed by buffer solution to pH 9.3-9.7	28 days - must be field filtered and preserved at the time of sampling. No option for unpreserved sample
Mercury-Dissolved	Glass	40 mL Glass Vial	0.45 um field filter Hydrochloric acid to pH<2	28 days - must be field filtered and preserved
Methyl Mercury	Glass or Teflon	120-250 mL	Hydrochloric acid to pH <2 - do not filter	28 days - must be field preserved
pH	HDPE	250 mL	None	28 days
Conductivity	HDPE	250 mL	None	28 days
Chloride	HDPE	250 mL	None	28 days
Dioxins & Furans	Glass, amber, TEF	2 x 1 L	None	Indefinite storage time

17-Dec-15

Note: Colour groupings indicate tests that can be grouped into the same containers. For extractable organics, a second bottle for each test is recommended. Sampling Notes / Footnotes immediately follow the soil table

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Sampling / Handling Guide - Soil and Sediment

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Parameters	Container	Typical Volume	Field Preservation	ALS Ontario Preserved Holding Time
PHCs (F1, BTEX) VOCs 1,4-Dioxane	Prewriteghed and precharged 40 mL Septa vials + Soil Jar for Moisture	~5 grams/vial - Terracore - 2 vials per sample	Field preservation with methanol / hermetic sampler* Wipe all soil from methanol vials	14 days / 48 hrs*
PHCs (F2-F4), Moisture	Glass jar with Teflon liner	120 - 250 mL glass jar	None	14 days
ABNs	Glass jar with Teflon liner	120 - 250 mL glass jar	None	60 days
CPs - Chlorophenols	Glass jar with Teflon liner	120 - 250 mL glass jar	None	60 days
PAHs	Glass jar with Teflon liner	120 - 250 mL glass jar	None	60 days
OC Pesticides	Glass jar with Teflon liner	120 - 250 mL glass jar	None	60 days
PCBs	Glass jar with Teflon liner	120 - 250 mL glass jar	None	Indefinite storage time
Metals	Glass jar with Teflon liner	120 - 250 mL glass jar	None	180 days
Mercury	Glass jar with Teflon liner	120 -250 mL glass jar	None	28 days
Boron-HWS	Glass jar with Teflon liner	120 - 250 mL glass jar	None	180 days
Chromium, Hexavalent	Glass jar with Teflon liner	120 - 250 mL glass jar	None	30 days
SAR	Glass jar with Teflon liner	120 - 250 mL glass jar	None	180 days
pH	Glass jar with Teflon liner	120 - 250 mL glass jar	None	30 days
Chloride	Glass jar with Teflon liner	120 - 250mL glass jar	None	30 days
Electrical Conductivity	Glass jar with Teflon liner	120 - 250mL glass jar	None	30 days
Cyanide - WAD	Glass jar with Teflon liner	120 - 250 mL glass jar	None - Protect from light	14 days
Fraction Organic Carbon	Glass jar with Teflon liner	120 - 250 mL glass jar	None	28 days
Grain Size Analysis with graphical representation	Bag or jar (plastic or glass)	250 mL minimum	None	N/A
Grain Size Analysis - Percent Sand (>75um PSA)	Bag or jar (plastic or glass)	120 mL minimum	None	N/A
Methyl Mercury	Glass jar with Teflon liner	120 mL	None	28 days
Dioxins & Furans	Glass jar with Teflon liner	120 mL	None	Indefinite storage time

Notes:

17-Dec-15

Colour groupings indicate tests that can be grouped into the same container.

Second Bottle is recommended for extractables - Fill Line on appropriate bottles - Do not overfill

* Freezing within 48 hrs at the lab extends the hold time to 5 days from sampling date as per ASTM method D6418-09

Hermetic sampling device (Encore) EPA Method 5035 require additional samples for QC.

Samples should be cooled and transported to the laboratory on ice as soon as possible after collection.

Each submission of methanol-preserved soil samples require an additional vial precharged with methanol for the trip blank

Groundwater samples submitted for Volatiles require one trip blank per submission.

Keep the methanol preserved vials cool to minimize humidity and temperature deviations by adding ice during sampling this will avoid methanol losses due to evaporation.

** Please note that SVOCs includes ABN, CP, and PAH. Ensure 2X250mL + 1X 500mL bottles are submitted for each water sample