SAMPLING INSTRUCTIONS FOR ENVIRONMENTAL DNA

**Standard Contents**
- 1L sampling bottle
- 250 mL filter funnel
- Adapter
- Paper coin envelope

**Items Needed**
- Disposable gloves
- Vacuum pump with flask
- 50% bleach solution
- #8 rubber stopper
- 2 forceps
- Cooler
- Ice
- Whatman™ filter paper
- Distilled water
- 3 rinse containers

**Questions?**
Contact the laboratory at 1-877-706-7678 or eDNA@bureauveritas.com

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**INDOORS**

2. Press the adapter into the filter funnel. Attach it to a flask containing a rubber stopper. Using a tube, connect it to a vacuum pump.

3. Pour the water sample through the funnel. Record the total filtration time and volume that passed through the filter. Run air through the filter for a few minutes to dry it.

4. Detach the filter funnel from the flask. Break the seal **without twisting**. Peel off the upper part of the funnel to expose the **gridded filter membrane**. Decontaminate the adapter for future use.

5. Carefully remove the gridded filter using forceps. Gently lay it on a clean work surface and fold in half using two forceps. Ensure the side with the filtrate is facing inwards.

6. Label the paper coin envelope. Using forceps, insert the folded filter into the envelope.

7. Pour 1-2 tbsp of silica bead desiccant into a zipper sealed plastic bag. Place the envelope and any site replicates in the bag to preserve them. Seal.

8. Complete the Chain of Custody form in its entirety. Insert the form in a zipper sealed bag. Place the bagged form and samples in an envelope.

9. Preserved filters can be shipped at ambient temperature. **Deliver to the Bureau Veritas Guelph laboratory as soon as possible**.

**OUTDOORS**

1. Place the sampling bottle horizontally into a body of water to fill it. Avoid collecting sediment or debris.

   Record your sample ID, sampling date and time on the bottle label. Store the samples in a cooler with ice.

   **Be sure to always follow clean practices.**

   Wear a new pair of disposable gloves between each step below. Handle the filter with sterilized forceps at all times. Use a clean work surface such as a Whatman™ filter paper or clean plastic bag when handling the filter membrane. Decontaminate reusable items using 50% bleach/water, then dip in two containers of distilled water to remove all bleach.

   Water samples must be filtered and preserved within 24 hours after collection.

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