Biovet®
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WATER ANALYSIS

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Order number

SPACE RESERVED

BIOVET

Customer information (Billing) - #

Name:

Contact:

PO#

Address:

Phone:

Email:

☐ **URGENT** **(Fee applies)**

Sampler, Type of water… - REQUIRED

II. Sampler's name (in block letters):

III. Type of water:
☐ Drinking water ☐ Raw (drinking)
☐ Pool/SPA ☐ Raw (non drinking)
☐ Wastewater ☐ Irrigation
☐ Other: ☐ Beach

IV. Compliance requirement (if applicable):
☐ Irrigation Can. GAP (a)
☐ Drinking Can. GAP (b) ☐ Health Can. (b)

SPACE RESERVED BIOVET
Sample temperature: °C
If T° > 12,4°C, hour:
If T° < 0°C ICE : ☐ YES ☐ NO
Sampling Date:
Lot bottle:
Nbr micro bottle:
Nbr chem. bottle:
☐ Compliant: ☐ Compliant with reservations ☐ Non-compliant Init.:
Reason:

I. Sample information - REQUIRED (in block letters)

Sampling Location:	Date:	Hour:
1.		
2.		
3.		
4.		
5.		
6.		

Biovet is accredited by the ministère de l'Environnement to performed microbiological analyses on water. Accredited laboratories are required to provide the Ministry the results of water samples that do not meet one of the quality standards established in Article 1 of the Driking water quality regulation.

Microbiological analysis

Drinking water

☐ Total Coliforms (atypical colonies) *
☐ *E. coli* *
☐ Enterococcus *
☐ AAHB *
☐ *Pseudomonas aeruginosa*
☐ *Pseudomonas spp*
☐ Other: _____

Raw (non drinking)
(river, irrigation, pool, beach…)

☐ Fecal Coliforms *
☐ Total Coliforms
☐ *E. coli* *
☐ Enterococcus *
☐ *Pseudomonas aeruginosa*
☐ *Staphylococcus aureus*
☐ Other: _____

Physico-chemical analysis

☐ Turbidity [DEAU-70007]
☐ Nitrites - Nitrates (NO_2 - NO_3) [DEAU-70012]
☐ Total hardness [DEAU-70021}
☐ Iron [DEAU-70023]
☐ Manganese [DEAU-70005]
☐ pH [DEAU-70019]
☐ Sulphides [DEAU-70006]
☐ Lead
☐ Other: _____
☐ Other: _____

☐ Ammonia nitrogen (NH_3) [DEAU-70043]
☐ Total Kjeldahl nitrogen (NTK) [DEAU-70046]
☐ DBO5 carbon [DEAU-70094]
☐ Total DBO5 [DEAU-70040]
☐ COD [DEAU-70041]
☐ Suspended matter (SM) [DEAU-70042]
☐ Total phosphorus [DEAU-70022]
☐ Other: _____
☐ Other: _____
☐ Other: _____

Physico-chemical profiles

Physico-chemical profile 1 - Well basic [DEAU-70028] ☐
Total hardness, iron, manganese, nitrites – nitrates, sulphides

Physico-chemical profile 2 – RPEP [DEAU-70034] ☐
Arsenic, barium, chloride, iron, fluorides, manganese, nitrites – nitrates, sodium, sulfates, total hardness

Physico-chemical profile 3 - Complete analysis (animal consumption) [DEAU-70027] ☐
pH, conductivity, phosphorus, potassium, calcium, magnesium, hardness, sodium, boron, copper, iron, manganese, zinc, sulfur (SO_4), nitrates

Physico-chemical profile 4 – watering (animal consumption) [DEAU-70013] ☐
(Physico-chemical profile 3) + alkalinity + chloride

(a) Irrigation Canada GAP: 100 E. Coli / 100 mL 1000 Total Coliforms / 100 mL

(b) Drinking Health Can./Can. GAP: 0 E. Coli / 100 mL 0 Total Coliforms / 100 mL

* Accredited by the ministère de l'Environnement du Québec according to the PALA

Tests in blue are subcontracted to accredited laboratories.
The information appearing on this request could be transmitted to these laboratories.

Collection and preservation of water samples

The sampling step directly influences the quality of analytical results. It is the responsibility of the sampler or the head of the distribution system to ensure the quality of the collection, conservation and proper shipping of samples according to the following instructions.

General precautions:

- Wash and dry your hands before any sampling.
- Do not put fingers or other objects inside of the neck or lid of the container and minimize exposure of the container to open air during sampling. Carefully and tightly seal containers after sampling.
- Only use the containers provided by the laboratory.
- Do not use a container with a broken safety seal.
- When collecting samples for microbiological analysis always leave an air space of at least 2.5 cm between the liquid surface and the cap.
- Make sure not to exceed the line when filling. Do not allow water to overflow the container.
- Never rinse containers provided by the laboratory because they contain preservatives required for analysis.
- Never smoke during sampling or during transportation of samples.
- Never sample immediately after handling fuel, e.g. filling up your car.
- The bottle used for sampling may have an expiration date, make sure that it has not exceeded to certify the sterility of the bottle. If the bottle is expired, please return to Biovet.

Sampling procedures for different types of water

A) Distributed water and well water

- Perform sampling from a tap accessible to users or a dedicated sampling tap.
- Perform sampling from the cold water tap and ensure that the hot water tap is closed.
- Collect the sample from a tap that is not connected to an individual treatment appliance or system, except if that appliance is installed in each building in accordance with the Regulation respecting the quality of drinking water, in which case the sample must be collected from a tap downstream of the treatment.
- Perform sampling from a tap located inside a building or in a location protected from wind and bad weather.
- Do not use outdoor faucets that are used to connect garden hoses.
- Let the cold water run for 5 minutes before taking a sample; where the tap used is equipped with a valve that controls both cold and hot water, let the hot water run for at least 2 minutes before letting the cold water run 5 minutes.

For **microbiological** analysis:

- Remove all accessories such as vents, screens or rose heads that may be fitted to the spout to be used for sampling. If the accessory cannot be removed, choose another tap.
- Clean the outside and inside of the spout using a single-use piece of paper or absorbent textile with commercial bleach.
- Let the tap run on moderate pressure for at least 5 minutes before collecting the sample; If the tap used has a valve that control both cold and hot water, let the hot water run for at least 2 minutes. Then let the cold water run for at least 5 minutes.

For **lead and copper** analysis:

- Do not remove accessories such as vents, screens or rose heads that may be fitted to the spout to be used for sampling.
- Perform sampling from the cold water kitchen tap or cold water tap most frequently used to supply drinking water.
- Let the tap run on moderate pressure for at least 5 minutes. Then turn off all the faucets. Do not use water throughout the facility/home for at least 30 minutes to allow stagnation. Then collect the water sample directly from the tap, without leaking it.

B) Surface water

Immerse the container beneath the surface at an angle of about 45° in a single movement so as not to lose the preservative. This operation must be done facing the flow to avoid contamination.

C) Pools and artificial ponds

- Always begin a sampling campaign by collecting samples for microbiological analysis before those for chemical analysis.
- Collect samples during normal operation hours at a depth of 15-30 cm below the surface (or halfway between the surface and the bottom if the depth is <30 cm) in an uncrowded part of the pool and between the outlet of the filtration system and the water return.
- For whirlpools, samples can be collected anywhere below the surface.
- Immerse the container beneath the surface at an angle of about 45° in a single movement so as not to lose the preservative.

Storage and transport

- Samples should be kept at about 4°C between the time of collection and receipt at the laboratory (use coolers and ice packs). Please note that samples should not be frozen.
- Use appropriate forms supplied by the laboratory. It is very important to mention: **I.** the location, date and time of sampling; **II.** name of the sampler; **III.** the type of water; **IV.** the compliance requirements, if applicable.
- Carefully pack the samples to avoid breakage or spillage.
- Coolers must be cleaned regularly and as much as possible be reserved for the purposes of drinking water analysis.
- Be sure to return the samples within 24 hours of collection.

For more details regarding sampling or disinfecting a well: www.environnement.gouv.qc.ca.