

Water Sample Data Collection Form

Dealer:	Client:
Address:	Address:
City, Province:	City, Province:
Postal Code:	Postal Code:
Phone:	Phone:
Fax:	Fax:
Email:	Email:
<p>Please refer to the Water Sample Collection Procedure on the reverse side of this form for proper sample acquisition. NOTE: Please answer as many of the questions stated below as possible to aid us in accessing an appropriate recommendation.</p>	
Sampling Date:	Sampled By: Raw: <input type="checkbox"/> Treated <input type="checkbox"/>
Source: Municipal <input type="checkbox"/> Drilled Well <input type="checkbox"/> Dug Well <input type="checkbox"/> Surface (pond, dugout) <input type="checkbox"/> Recovery Rate: Other (describe): Source Delivery is Inconsistent:	
Water Supply Pipe Size: inches <input type="checkbox"/> mm <input type="checkbox"/> :	Water Delivery Pipe Size: inches <input type="checkbox"/> mm <input type="checkbox"/> :
Pump/Supply Delivery Rate: USGPM <input type="checkbox"/> lpm <input type="checkbox"/>	Supply Pressure (High/Low): PSI <input type="checkbox"/> KPa <input type="checkbox"/> /
Sample Visual Observations: Clear <input type="checkbox"/> Colour: (describe) Cloudy <input type="checkbox"/> Cloud rises <input type="checkbox"/> Cloud falls <input type="checkbox"/>	
Odour: Hot Water <input type="checkbox"/> Cold Water <input type="checkbox"/> Sulphur <input type="checkbox"/> Earthy <input type="checkbox"/> Metallic <input type="checkbox"/> Chlorine <input type="checkbox"/> Other (describe) <input type="checkbox"/>	
Build-up in toilet water closets: No <input type="checkbox"/> Yes <input type="checkbox"/> (where applicable describe):	
Does the water stain fixtures? No <input type="checkbox"/> Yes <input type="checkbox"/> (describe):	
Does the water quality remain constant year round? Yes <input type="checkbox"/> NO <input type="checkbox"/> (describe):	
What is the end use of the treated water or the required quality? Residential Consumption <input type="checkbox"/> Other <input type="checkbox"/> (describe)	
Number of Occupants (residential): Other Demand Requirements (daily usage, peak flow, duty cycle, average flow):	
Other Notes and Comments:	



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Water Sampling Procedure

Objective

The objective in sampling is to obtain a representative sample that reflects the current water condition at the point sampled and under common usage conditions. Things that can affect the accuracy of the sample are;

- ◆ Sample Point Location
 - » Sample for source conditions should be drawn as close to the source as possible to avoid distribution system contamination and the effects of other water conditioning devices.
 - » Samples for treatment effectiveness should be drawn close to but down stream of treatment equipment.
- ◆ Sampling Velocity
 - » Samples should be drawn at a system flow velocity that best represents the usage conditions.
- ◆ System Preconditioning
 - » On systems that are newly installed or that have sat dormant for a period of time (days) should be flushed under normal usage conditions for a period of 10 to 30 minutes or until a consistent water quality can be achieved. Newly drilled wells are covered under Well Development below.

General Procedure Outline

The following lists the steps involved in best practice water sampling.

- ◆ Locate your sampling point based on the sampling point objective.
- ◆ Ready suitable containers for sampling Bottles such as Ministry of Health sampling bottles or pretreated bottles should not be used as they may contain a preservative agent for sample transport.
- ◆ Clean foreign debris from sample point that may affect sample quality
- ◆ Condition system flow when possible to the typical usage flow.
- ◆ Purge sampling point of possible stagnant water and foreign debris.
- ◆ The sampling container should be rinsed 2 or 3 times with the sample water from the sampling point at this time.
- ◆ The flow at the sampling point should be reduced so the flow is a steady turbulent free flow. This will eliminate excessive mixing of air with the sample and reduce sample degradation during transport to the testing facility.
- ◆ The sample should be capped immediately to avoid spillage and contamination.
- ◆ Sample containers should be label to include the date, time, site location, and sampling point
- ◆ Samples should be stored in a cool dark environment and be protected from heat and freezing.
- ◆ Samples should be delivered to the testing facility as soon as possible best within a 48 hour period when possible.

Well Development

Develop new permanent wells prior to sampling to ensure adequate hydraulic connection with the aquifer, and to remove any drilling fluids. Develop wells by pumping and surging until relatively clear water is produced. A consistent water quality that is sustained is the indicator that development is complete. This procedure may take several hours and requires the well to be pumped.

Sample Size

Our wet lab facility requires 500 ml of sample for general testing purposes. Smaller samples must be diluted and therefore yield a less accurate result.

Sampling containers must be clean and free of foreign material and have no apparent odours.



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