Male' Water & Sewerage Company Pvt Ltd.

Water Quality Assurance Laboratory

Information Sheet for Water Analysis

Label Sample ID No:

Location of the Sample:

Amount of Sample in mL:

Physical Appearance:

Date & Time Sampled:

Type of Water:

Sampled By:

Water Chemistry

No	Parameters	Test Req.	Test Method	Volume Require (mL)	Type of Container
1	Ammonia, Nitrogen ($N\text{-}NH_3$)		Manufacturer (HACH,USA)	50	Plastic/Glass
2	Boron (B)		Manufacturer (HACH,USA)	50	Plastic/Glass
3	Bromine (Br_2)		Manufacturer (HACH,USA)	100	Plastic/Glass
4	Chloride (Cl^-)		Manufacturer (Sherwood, MK)	25	Plastic/Glass
5	Chlorine, Free (Cl_2)		Manufacturer (HACH,USA)	50	Plastic/Glass
6	Chlorine, Total (Cl_2)		Manufacturer (HACH,USA)	50	Plastic/Glass
7	Chromium Hexavalent (Cr^{6+})		Manufacturer (HACH,USA)	50	Plastic/Glass
8	Copper (Cu)		Manufacturer (HACH,USA)	50	Plastic/Glass
9	Electrical Conductivity		Manufacturer (HACH,USA)	100	Plastic/Glass
10	Fluoride (F^-)		Manufacturer (HACH,USA)	50	Plastic/Glass
11	Hardness, Calcium		Standard methods, 19th addition by APHA	250	Plastic/Glass
12	Hardness, Magnesium		Standard methods, 19th addition by APHA	300	Plastic/Glass
13	Hardness, Total		Standard methods, 19th addition by APHA	250	Plastic/Glass
14	Hydrogen sulphide (S^-)		Manufacturer (HACH,USA)	100	Plastic/Glass
15	Iodine (Total) (I_2)		Manufacturer (HACH,USA)	20	Plastic/Glass
16	Iron (Total) (Fe)		Manufacturer (HACH,USA)	50	Plastic/Glass
17	Manganese (Mn)		Manufacturer (HACH,USA)	100	Plastic/Glass
18	Nitrate (NO_3^-)		Manufacturer (HACH,USA)	50	Plastic/Glass
19	Nitrite (NO_2^-)		Manufacturer (HACH,USA)	50	Plastic/Glass
20	pH		Manufacturer (HACH,USA)	75	Plastic/Glass
21	Phosphate (PO_4^-)		Manufacturer (HACH,USA)	50	Glass only
22	Salinity		Manufacturer (HACH,USA)	100	Plastic/Glass
23	Sulphate (SO_4^-)		Manufacturer (HACH,USA)	50	Plastic/Glass
24	Temperature		Manufacturer (HACH,USA)	50	Plastic/Glass
25	Total Alkalinity		Standard methods, 19th addition by APHA	200	Plastic/Glass
26	Total Dissolved Solids		Manufacturer (HACH,USA)	100	Plastic/Glass
27	Turbidity		Manufacturer (HACH,USA)	50	Plastic/Glass

Collection of Water for Chemical Examination

Tap Water

- Wash hand with soap and water, dry with a clean towel or paper towel.
- Wipe the outlet carefully using a cotton wool dipped in surgical spirit.
- Allow the water to run for 2 minutes.
- Wash the bottle with running water at least twice.
- Collect water into the bottle and cap tightly.
- Wipe outside, and label the bottle completely.

Well Water

- Wash Hand (as above)
- Attach a length of string to the bottle
- Remove the cap and lower the bottle into the well
- Collect the water
- Pull up the bottle and replace the cap immediately
- Wipe outside, and label the bottle completely

Swimming pool and other such sources

- Wash hand (as above)
- Remove the cap
- Hold the bottle in such a way that your hand does not come in contact with the mouth of the bottle.
- Dip into the water about 20cm below (the bottles should be in a slanting position)
- If there is water current, then place the bottle facing towards the water current while collecting the water
- Collect water
- After collecting water, take the bottle and replace the cap immediately
- Wipe outside, and label the bottle completely

Transport to the laboratory

- The sample should be transported to the laboratory in an ice box like container to protect from light and should reach the laboratory in an appropriate condition within 6 hours of sampling for accurate analytical result.

The label of the bottle should contain all the in formations below

- Name of the place/location of the sampling,
- Name of the person who collected the sample,
- Amount sampled,
- Physical appearance of the sample,
- What type of water is the sample,
- Date & time sampled.

Water Microbiology

No	Parameters	Test Req.	Test Method	Volume Require (mL)	Type of Container
1	Coliforms, Total		Membrane Filtration	250.0	Sterilized
2	Coliforms, Faecal		Membrane Filtration	250.0	Sterilized
3	Aerobic Bacterial Count		Membrane Filtration	250.0	Sterilized
4	Psudomonas		Membrane Filtration	250.0	Sterilized
5	Staphylococcus		Membrane Filtration	250.0	Sterilized
6	Yeast & Mould		Membrane Filtration	250.0	Sterilized

Collection of Water for Microbiological Examination

Tap Water

- Wash hand with soap and water, dry with a clean towel or paper towel.
- If the tap is metal, than flame the outlet using cotton wool dipped in surgical spirit.
- If the tap is plastic, wipe the outlet carefully using a cotton wool dipped in surgical spirit.
- Allow the water to run for 2 minutes.
- Collect at least 250ml of water in an well sterilized container leaving an air space in the container
- Tighten the cap properly if the container is a sterilized bottle. Or close air tightly if it is pre-prepared bag.
- If you are using a Thio-Bag™ then follow the "Instructions for use of Nasco's Sodium Thiosulfate Whilr-Pak® Bags" for sample collection.
- Label the sample container completely.

Well Water

- Wash Hand (as above)
- Attach a length of string to the bottle.
- Remove the cap and lower the bottle into the well.
- Collect at least 250ml of water leaving an air space in the bottle.
- Pull up the bottle and replace the cap immediately.
- Wipe outside, and label the bottle completely.

Swimming pool and other such sources

- Wash hand (as above)
- Remove the cap.
- Hold the bottle in such a way that your hand does not come in contact with the mouth of the bottle.
- Dip into the water about 20cm below (the bottles should be in a slanting position)
- If there is water current, than place the bottle facing towards the water current while collecting the water.
- Collect at least 250ml of water leaving an air space in the bottle.
- Take the bottle and replace the cap immediately.
- Wipe outside, and label the bottle completely.

Transport to the laboratory

- The sample should be transported to the laboratory in an ice box like container protected from light and should reach the laboratory in an appropriate condition within 6 hours of sampling.

The label of the bottle should contain all the in formations below

- Name of the place/location of the sampling,
- Name of the person who collected the sample,
- Amount sampled,
- Physical appearance of the sample,
- What type of water is the sample,
- Date & time sampled.

Note:

* Advance notice should be given incase customer need the container/s back
* The container should be collected with the analytical results otherwise the container/s will be discarded without prior notice.