

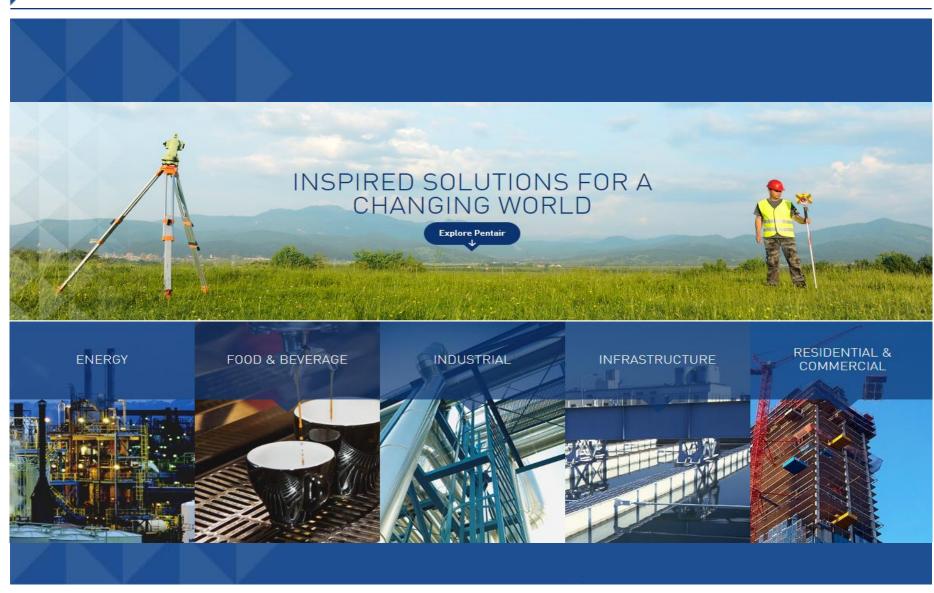
WATER **FOR** COFFEE LOVERS



EVERPURE'

Established 1933 foodservice.pentair.com

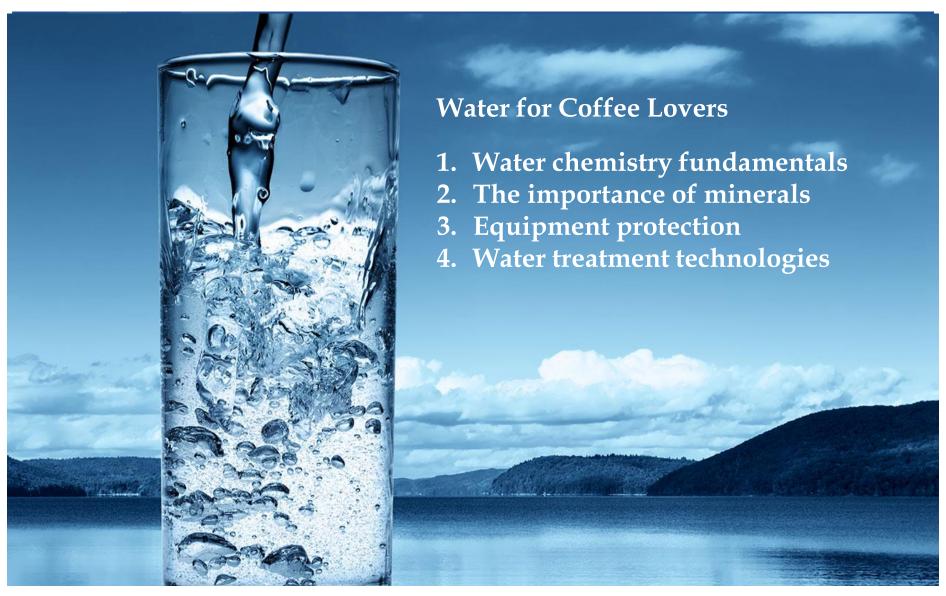




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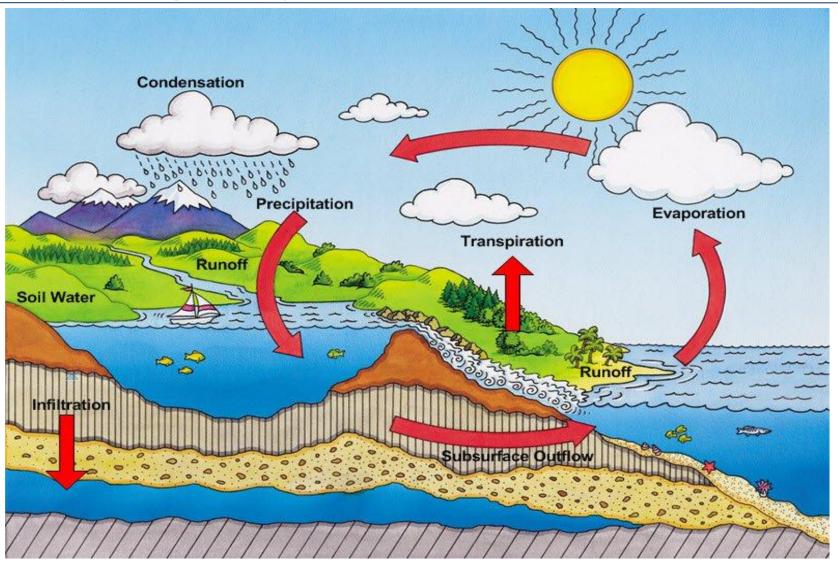




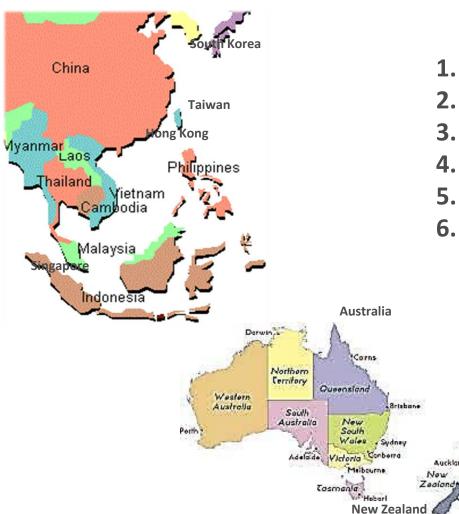
Water Chemistry - Fundamentals

- 1. Total dissolved solids (TDS) (ppm)
- 2. Total hardness (ppm)
- 3. Carbonate Hardness or Alkalinity (ppm)
- 4. pH

The Hydrological Cycle



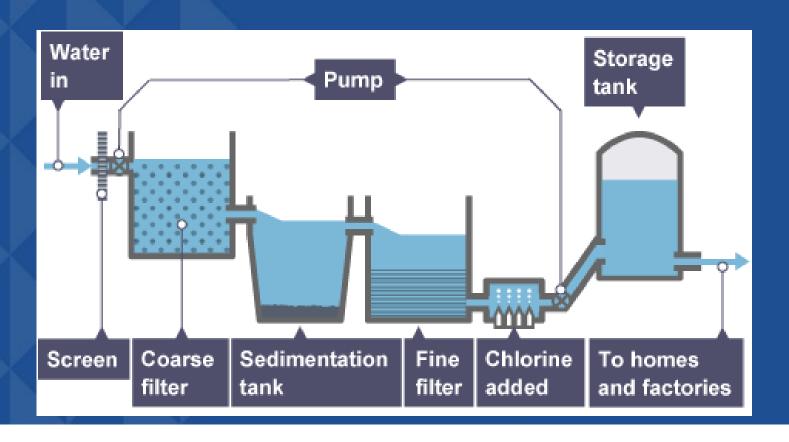
Asia - Variable Water Conditions (TDS)



- 1. Australia Melbourne 30 50 ppm
- 2. Australia Perth 380 600 ppm
- 3. S. Korea Seoul 100 480 ppm
- 4. Philippines 70 400 ppm
- 5. Vietnam 70 200 ppm
- 6. Indonesia 100 -250 ppm



How much chlorine do you serve with your coffee?





Filter demonstration



WBC 2016 Short Coffee Video.mp4



How does the chemistry of water affect coffee ?





PENTAIR Mineral Content of Water

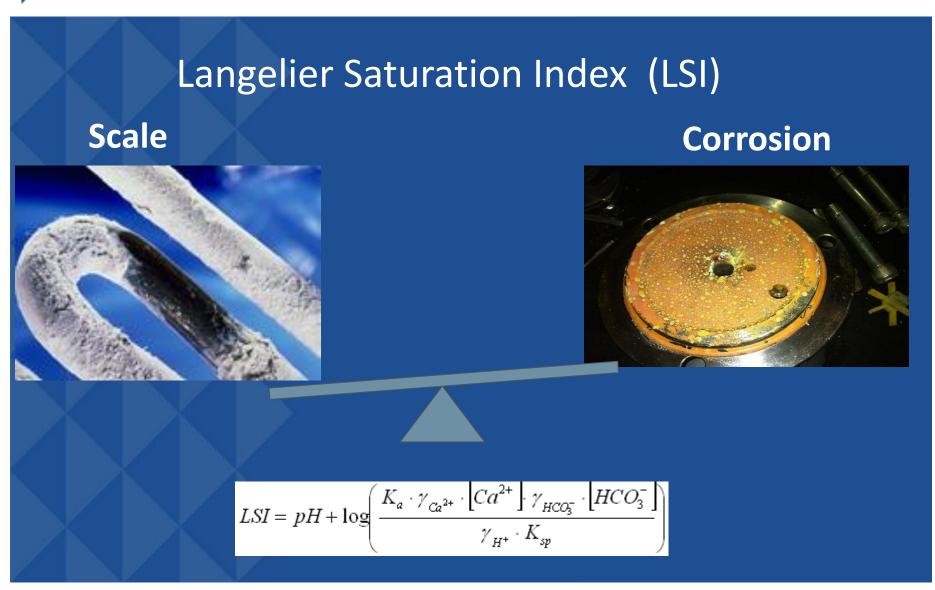
	TDS (ppm)	Total Hardness (ppm)	Alkalinity (ppm)	рН
WBC Water Spec	120 -150	60-85	40	7 - 8
Australia (Melb)	30	30	10	7.7
Australia (Perth)	600	300	190	7.6
S. Korea (Seoul)	150	60	30	7.6
S. Korea (Seoul)	480	230	200	7.7
Vietnam	200	80	60	7.6
Indonesia	250	110	90	7.5

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PENTAIR Protecting the coffee machine





Water Quality – Testing

1. Litmus paper



2. Titration



3. Digital meters (spectrometer, photometer)





Water Treatment Technologies

1. Removal

- Carbon block
- Sub micron filters
- Reverse Osmosis

2. Exchange

- Softening
- Partial Softening

3. Addition

- Minerals
- Scale Inhibitors







Everpure Conserv Reverse Osmosis System



Features and benefits:

- 1. Control of mineral content.
- 2. Balances water chemistry.
- 3. High efficiency membrane.



Summary

- **1. Chemistry fundamentals** understand what can be in your water.
- **2. A solvent free from impurities taste and odour** Taste the water after the filter, is it good enough to drink
- 3. Water testing Test your water or have your water tested for the appropriate dissolved minerals.
- **4. Solutions** Select the appropriate solution based on the water testing