

# **ILSI Guidelines for Water Reuse in Bottling**

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# Background

- **Water availability issues-current and future**
- **Legal/political restrictions on water use**
- **Reduce waste discharges**
- **Cost effectiveness based upon location**
- **Risks?**
- **Public perception**
- **Being a good corporate citizen**

# Purpose

- **Encourage greater applications of safe and efficient reuse practices in the international bottling industry**
- **Assist prospective industry users: sodas, brewers, water, juices.....**
- **Acceptance by regulators**
- **Public acceptance**

# Water Sources

- **Public supply—treated/untreated**
- **Raw Surface and Groundwater**

## **Internal sources**

- **Clean in place (CIP)**
- **Rinse water**
- **Collected rain water**
- **Wash water?**
- **Sanitary waste?**

# Applications of Reused Water

- Rinse
- CIP
- Washing applications
- Irrigation
- Sanitary

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**Product? Not now**

**Technically feasible but perception issue**

# Guideline Coverage

- **Source waters**
- **Contaminants - microbe, chemical, aesthetic**
- **Technology and performance**
- **Quality management systems**
- **Monitoring**
- **End uses**
- **Water Quality Goals**
- **Training**
- **Case studies**

# **Core Committee Members**

**John Fawell- UK Toxicology**

**David Cunliffe- Aus. Regulatory and microbiology**

**Choon Nam Ong –SG toxicology**

**Dean Davidson- US FDA food and water sanitation**

**Andy Eaton – US MWH analytical and monitoring**

**Ana Maria deRoda Husman- Neth. Microbiology**

**Blanca Jimenez- Mexico - Technology**

**David Bridgers- Siemens Technology and applications**

**Joseph Cotruvo- USA, Chairman, Water Reuse/Quality**

**Rick Canady and Steve Froggett- ILSI**