

# Swimming Pool Sanitation

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# Disease Transmission

- Microbes: Viral, Bacterial, Protozoan, Fungal
- Transmission Route:
  - Faecal-Oral
  - Direct Contact
  - Inhalation
- Bacteriological Criteria based on indicator bacteria – interpretation available. Compliance is a quality assurance procedure

# Chemical Criteria - Disinfection

- Chlorine and Bromine: Continuous / Automatic dosing
- Parameters
  - Disinfectant concentration
  - Temperature
  - pH
  - Total Alkalinity (Buffer)
  - Cyanuric Acid (Stabiliser)
  - Disinfection by-products - chloramines
  - Adjunct disinfectants

# Legal Framework

- Public Health (Swimming Pools and Spa Pools) Regulation 2000
- Defines swimming and spa pools
- Closure – on reasonable grounds of public health risk (template available from PHU)
- Guidelines – protect against prosecution

# Guidelines

- 1996 Guidelines for Disinfecting Public Swimming Pools and Spa Pools
- Draft 2010 Guidelines
- Draft Code of Practice

# Cryptosporidium Minimisation

- Disinfection CT = 15,000 (20mg/L FAC for 13 hours)
- Control Measures
  - Swimmer hygiene practices
  - Education
  - Operational control

# Resources – web site

The screenshot shows a Windows Internet Explorer browser window displaying the NSW Health website. The address bar shows the URL: [http://www.health.nsw.gov.au/PublicHealth/environment/water/water\\_spa.asp](http://www.health.nsw.gov.au/PublicHealth/environment/water/water_spa.asp). The page title is "Swimming Pools and Spa Pools (Public) - NSW Department of Health".

The website header features the NSW Government logo and the NSW Health logo. A search bar is located in the top right corner. Below the header, there is a navigation menu with links for "ask government" and "contact us".

The main content area is titled "Swimming Pools and Spa Pools (Public)". It includes a brief introduction: "The *Public Health (Swimming Pools and Spa Pools) Regulation 2000* controls the public health risk associated with public swimming and spa pools. Following is a selection of materials which will assist in understanding public swimming pool and spa pool issues."

The page is organized into several sections:

- Legislation**
  - [Public Health \(Swimming Pools and Spa Pools\) Regulation 2000](#)
- Inspection Report**
  - [Swimming Pool and Spa Pool Inspection Report](#)
  - [Log Sheet](#)
- Guidelines**
  - [Protocol for Minimising the Risk of Cryptosporidium in Public Swimming Pools and Spa Pools](#)
  - [Public Swimming Pool and Spa Pool Guidelines - June 1996](#)
  - [Guide for Demonstrating Efficacy of Pool and Spa Sanitisers - June 2007](#)
  - [Guidelines for Disinfecting Public Swimming Pools and Spa Pools 2010 - not yet published](#)
  - [Public Swimming Pool and Spa Pool Code of Practice 2010 - not yet published](#)
- Clean Pools for Healthy Swimming Campaign**
  - [Brochure - Clean Pools for Healthy Swimming](#)
  - [Poster - Steps to Healthy Swimming](#)
- Factsheets**
  - [Disinfection of Swimming Pools and Spa Pools](#)
  - [Record Keeping - Log Sheets](#)
  - [Controlling Chloramines in Indoor Swimming Pools](#)
  - [Breakpoint Chlorination](#)
  - [Cryptosporidium and Giardia in Swimming and Spa Pools](#)
  - [Swimming Pool Microbiology Testing Frequency](#)
  - [Swimming Pool Chemical Testing Frequency](#)
  - [Stabiliser \(Cyanurate\) Use in Outdoor Swimming Pools](#)
- Contamination Response Plans - for Operators**
  - [Cryptosporidium Notification Response Plan](#)

On the right side of the page, there is an "EMERGENCY NUMBERS" section and an "In this section:" list with links to "Water Quality", "Drinking Water", "Recreational Water", "Swimming Pools and Spas", "Wastewater and Sewage", "Links", and "Contacts".

The bottom of the screenshot shows the Windows taskbar with several open applications: Microsoft Word, Microsoft Outlook (Inbox), Microsoft PowerPoint, and the current web browser window. The system clock shows 3:20 PM.

## Resources

[http://www.health.nsw.gov.au/PublicHealth/environment/water/water\\_spa.asp](http://www.health.nsw.gov.au/PublicHealth/environment/water/water_spa.asp)

- Legislation
- Inspection Report / Log Sheet
- Guidelines
- Clean Pools for Healthy Swimming Campaign
- Fact Sheets
- Contamination Response Plans – for Operators
- Tutorials

## Further Help

- Your local Public Health Unit

[www.health.nsw.gov.au/PublicHealth/Infectious/plus.asp](http://www.health.nsw.gov.au/PublicHealth/Infectious/plus.asp)

