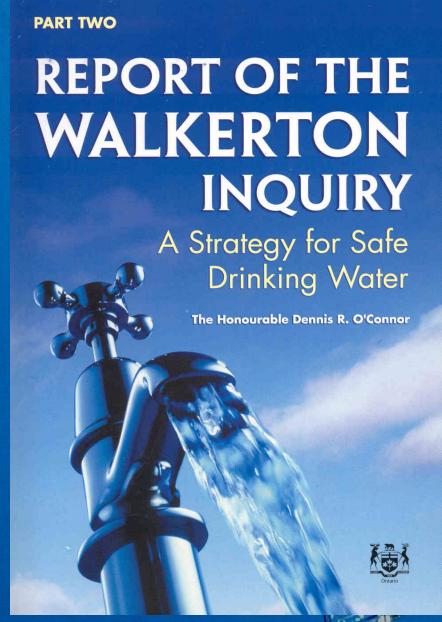


# Setting the Stage

- A Public Utility since 1902
- ✓ Member of AWWA since 1911
- AWWARF member since 1986
- Employee services now contracted to PUC
- ✓ Conventional Surface WTP
- Operate adjacent water & wastewater systems under contract

"The goal of any drinking water system should be to deliver water with a level of risk that is so negligible that a reasonable and informed person would feel safe drinking it."

Walkerton Report Part 2, Page 74







### **Areas of Discussion**

Challenges & Opportunities....

Structure & Governance
Management
Financial Considerations
Operational Issues











- Traditionally water & wastewater services have been out of sight, out of mind
- Requirement to have a transparent, accountable municipal system
- Legislation is complex
- Penalties can be severe



 More governance knowledge expected than ever before

**Standard of Care requirements** 

**Cannot contract owner-liability** 

**Focused governance** 

Not good enough to be financial stewards

Able to rely on "experts"

Must ask the tough questions



- How big is big enough?
- Consolidation or regionalization
- In-house expertise vs. consultant
- Electric deregulation in Ontario had major impact for water restructuring
- "Why would anyone want to run for municipal office?"



#### Summary of Options for Municipal Water Systems

**Operating Agency** 

- 1. Municipal operating agency b.
- 2. Regional water provider
- 3. External operating agency

**Options** 

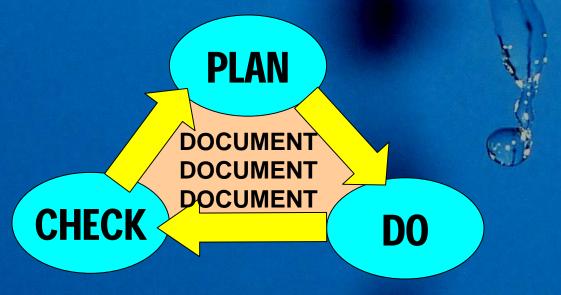
- **Municipal department**
- **Public utilities commission**
- **Municipally owned corporation**
- **Regional governments**
- Intermunicipal agreements
- **Ontario Clean Water Agency**
- **Another municipality**
- **Private operating agency**







Movement to have everything more formalized





...and audited!



**Inspector Requirement** 

Potential for Regulatory Non-Compliance





Customer confidence in your product



- Transparency vs. security
- Privacy information (PIPEDA)

Get to know the players

**Medical Officer of Health** 

Regulators

Laboratory

**Special-needs Customers** 

**Conservation Authorities** 

**Building Officials** 

**Economic & Land-use Planners** 

**Clients** 





Emergency and contingency planning

Substance in drinking water

# Water once again proven safe

By JOËLLE KOVACH Examiner Staff Writer

The drinking water has been given a final clean bill of health.

Peterborough County-City Health Unit spokesman Tom Cathcart said yesterday that tests showing high levels of a cancer-causing chemical in the drinking water last week were wrong.

Final testing done by the Min-

istry of the Environment (MOE) have come back clean, he said.

"We're very satisfied with these results," he said.

On April 28, the health unit reported high levels of Nnitrosodimethylamine, or NDMA, in the drinking water in both provincial labs in Etobicoke. Peterborough and Lakefield.

in laboratory animals.

Follow-up samples were sent to laboratories in Toronto and Waterloo May 1. Results showed traces of the chemical, or none at all.

Cathcart said samples were taken again Monday and Tuesday by the MOE and analysed at the

Some showed no detectable levels The chemical has caused cancer of NDMA, Cathcart said. Others had 1.6 parts per trillion (ppt), far last night.

less than the nine ppt considered safe by the MOE. The original tests showed 120 to 180 ppt.

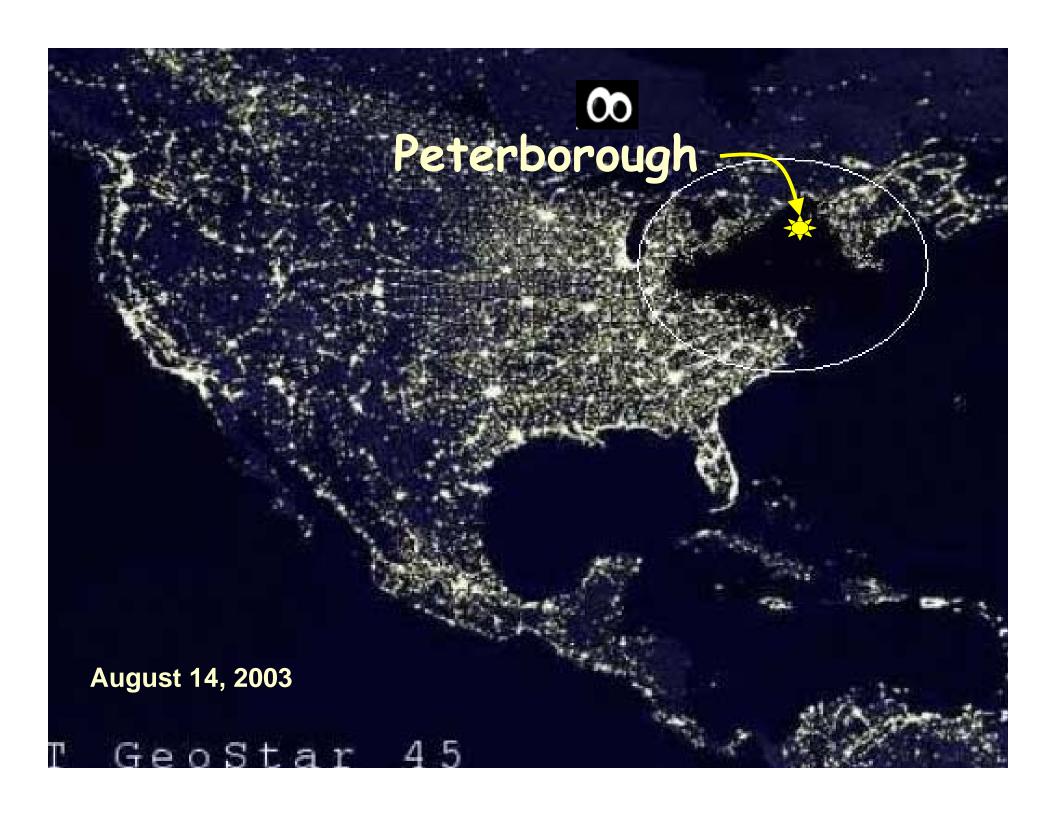
Last week Peterborough Utilities Services president Bob Lake said there was reason to believe the first test results were faulty.

They had been taken by the PUS and analysed locally.

He was unavailable for comment

#### Boiling won't cure what's in water







- Sustainability of infrastructure
- Source water protection





- Regulatory knowledge
- Have to meet the developing "Quality Management Standards"
- Operating authority accreditation
- Benchmarking with caution
- Established roles & responsibilities
- Top-level support



 Operational Plan will look at operating authority's corporate and operational systems (management strategies)

Focus on multi-barriers and continuous improvement

"Made in Ontario" quasi-HACCP/ISO hybrid

Piloting just started



- Get the good news out!
- Focus on customers
- Focus on proactive, not reactive
- Partner with industry associations and others











- Drinking water has historically been undervalued
- Still difficult to get even modest water rate increases
- Rate impacts from regulations
- Best practices vs. meeting regulations





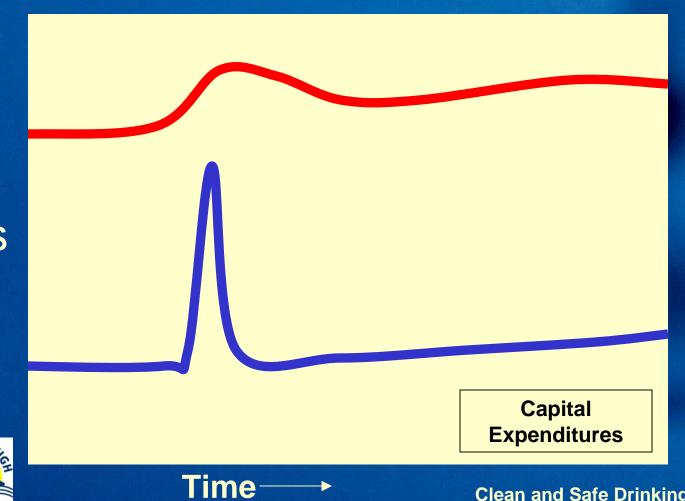
- Funding source water protection and other new ventures
- Grants?
- Rate structure and metering
- Other fees and charges
- Uniform method of accounting





- Asset inventory is key
- Develop a capital infrastructure management plan
- Long-range forecasting and service levels
- Know your "full" costs
- Dedicated revenues and reserves





Large system

Small system





- Multi-barrier approach
- As water science improves, challenges will increase
- Redundancy of system
- Redundancy of human resources
- Use of technology for reliability, redundancy or cost reduction





- Review operational changes
- Balance water demand and water quality
- Have a complete and up-to-date O&M manual
- Exercise your Emergency Plan
- POU devices





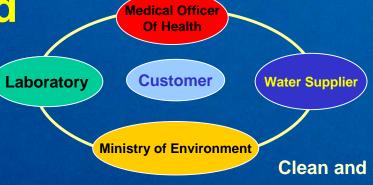
 Have established procedures for dealing with adverse water quality reports





- The system IS working!
- January 1, 2003
- ◆ 1 E.coli on P.E. with 1.8 mg/L free Cl₂
- All parties alerted and knowledgeable
- Established procedures known & followed





- Ministry inspections go well beyond treatment
- Look at source water, distribution system, management, best practices.
- Assign knowledgeable supervisory staff for inspections





- Be prepared for unannounced inspections
- Compliance issues vs. recommendations
- Know the difference between inspections and investigations









- There is already a shortage of operators and it will get worse
- Consider developing operators (apprentice program)
- Elimination of "grandparented" licence
- Mandatory "entry-level" training course





- Training changes...moving to CEUbased
- Renewal of operator licence will require training CEU's
- Individual training needs assessments
- Quality training online, correspondence, etc



- Most training focused on passing exams for licences
- More health-risk training
- More regulatory training
- Training efforts should be industrycoordinated





- Province will be more active in training development and curriculum
- More operator "musical chairs"





