DANGER! the regulatory ground is shifting under your feet — Get on firm ground NOW with a reference you can trust!

Storage Tanks in Canada

The Guide to Environmental Regulation and Compliance

By P. Douglas Petrie M.E.S., LL.B., B.E.S.

"Canada's authoritative guide to tank regulation and compliance."

Now fully updated for 2006 and featuring new sections on: environmental insurance; historical standards of care; cross-Canada legislative comparisons; the role of the TSSA and fully-annotated case-law!

- ✓ Protect yourself and your company against the dangers of non-compliance
- **✓** Direct clients and colleagues with confidence
- ✓ Gain an understanding of the complex interaction of current storage tank codes, rules, regulations and guidelines
- **✓** Make sure that you always have the most upto-date information
- ✓ Direct operations, establish and direct vital due diligence, training and maintenance protocols with confidence

Templegate Information Services Inc.

A ministry inspector calls...
A coupling leaks when you refill ...
There's a smell of oil around the site ...
There are stains in the containment area ...

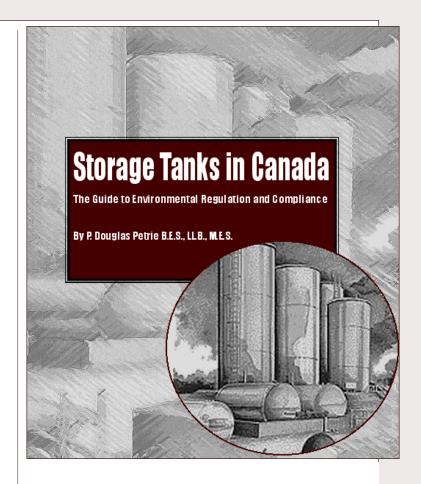
Are your storage tanks in compliance?

Don't run the risk of <u>not</u> knowing!

If you install, own, operate, monitor, manage or decommission storage tanks, Canada's <u>only</u> management handbook dedicated to underground and aboveground tank compliance is **your best due diligence insurance policy!**

The facts of the matter are ...

- ** Storage tanks are everywhere. They can be found underground at virtually every corner gas station in Canada. They can be found in our homes and in the basements of office and apartment buildings. They are on almost every industrial site, storing almost every type of liquid from waste liquids to automotive recyclables to PCBs.
- ** If you (or your company or client) own, operate or are responsible for a non-compliant storage tank, you also own a potential problem. A single failure in the installation, operation, maintenance or decommissioning of any storage tank can produce serious contamination of soil and groundwater in a matter of seconds.
- ** Owners and operators of underground and aboveground storage tanks, as well as property owners, have certain responsibilities under Canadian laws should a tank leak and contaminate the environment.
- ** All those responsible for the handling or storing of liquid contaminants must report spills, overfills, leaks or even the discovery of historic contamination to regulatory officials, and take corrective action to prevent further harm and remediate the site
- ** In such circumstances, ministry inspectors regard full compliance with <u>all</u> of today's rules, regulations, standards and guidelines a fundamental duty for you, your company as well as its owners, managers, and supervisors.
- ** The penalties for non-compliance can run into the many thousands of dollars. New laws (such as Ontario's Bill 133) mean that spills, leaks and other failures can result in immediate penalties as well as further action through the courts.

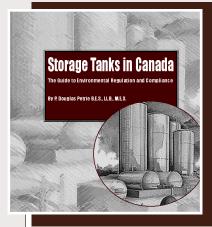


A conviction on first offence for a corporation holds a maximum \$6 million fine and on subsequent offences a max of \$10 million. (*EPA* s.187). Individual company owners, directors, officers and managers can face similarly harsh fines, and, in extreme cases, even imprisonment.

- * Even when the industry leaves and the site is redeveloped, the tanks can still pose complicated decommissioning, remediation and liability problems.
- *With serious financial and legal consequences applying to both corporations and individuals who fail to keep up with the technical and legal issues of tank management and with the contamination of a community's soil and groundwater supplies a possible outcome of any tank failure compliance in this sensitive area is not a luxury, it's a duty.

Your one-stop solution is ...

- ** STORAGE TANKS IN CANADA is Canada's only information source solely dedicated to helping you ensure that your organization will meet the test of storage tank compliance.
- ** Written by Doug Petrie, a Certified Environmental Law Specialist and Partner at Willms & Shier Environmental Lawyers LLP, STORAGE TANKS IN CANADA draws together all the information you need to understand your obligations and to ensure you know what to do to maintain compliance.



- Canada's only information service dedicated to storage tank compliance
- Fully updated for 2006 featuring over 550 pages of essential information

I. Introduction **II. Legislative Framework**

- 1. What is Law and What is Not
- 1.1 The Constitution
- Legislation: Statutes; Regulations
- Legislative Instruments Common Law
- 1.5 The "Wish List"
- 2. Federal legislation 2.1 Introduction
- **Guidance Documents**
- Flammable Liquids Bulk Storage Regulations (Railway Lands)
- 3. Provincial legislation
- 3.1 Comprehensive Legislation3.2 Other Provincial Legislation
- 4. Municipal by-laws

III. Motive Fuels

- 1. The regulatory system1.1 Administering agencies1.2 Legislative history

- 1.3 Relevant petroleum products1.4 Organization of the Liquid Fuel Handling Legislation
- 1.5 Registration and Licensing of Installers and Handlers
- Approved products
- **Authorized Variances**
- 1.8 Making regulations and adopting New Codes
- 1.9 Inspector Powers
- 1.10Duty not to operate unacceptable equipment
- 1.11 Reporting of incidents
- 2. Underground tanksystems
- 2.1 Introduction
- 2.2 Installation
- Operations
- Removal/abandonment
- 2.5 Remediation
- 3. Aboveground tank systems 3.1 Introduction
- 3.2 Installation
- 3.3 Operations
- 4. Mobile fuelling

IV. Heating Fuels

- 1.The regulatory regime
- 1.1 Administering agencies Legislative history
- Organization of the fuel oil laws 1.3
- Products governed by regulation
- Registration and licensing of operators & technicians
- Duty of Employers
- Licensing requirements
- 1.8 Equipment registration
- 1.9 Inspector powers
- 1.10Equipment requirements and distributor/contractor obligations

2. Technical equipment requirements

- 2.1 Approved standards History of the application of
- the CSAcode Underground tanks of all sizes
- Indoor aboveground tanks
- Outdoor aboveground tanks up to 2,500 Litres
- Outdoor aboveground tanks
 - more than 2,500 litres

2.7 Leaks, spills, and similar events 2.8 Remediation

V. Industrial Process Liquids

- 1. The regulatory regime
- 1.1 Raw Materials and Waste Liquids
- Applicability of Ontario's Liquid Fuels Handling legislation
- Applicability of Ontario's Fuel Oil Legislation
- EPA regulations requiring spill prevention and control plans
- 1.5 Historic gap in Ontario's legislation

2. Ontario Fire Code

- 2.1 Introduction
- Application and phase-in period
- Flammable & combustible liquids Storage tank equipment standards

3. Other Guidance Documents

- National Fire Code of Cda, 1995
- Federal Underground Storage Tank Technical Guidelines and the CCME Environmental Code of Practice for Underground Systems
- Federal Aboveground Storage Tank Technical Guidelines and the CCME Environmental Code of Practice for Aboveground Systems
 CCME Environmental Code of
- Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products
- Proposed federal Petroleum Products and Allied Petroleum Products Storage Tank Systems Regulations
- CCME Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks
- Federal Lands Storage Tank Systems Registration Regulations
- Federal Environmental **Emergency Regulations**

VI. Waste Liquids and **PCBs**

- 1. Introduction
- 2. Polychlorinated Biphenyls (PCBs)
- Introduction
- Federal PCB Regulations
- Federal PCB storage guidance
- documents Provincial PCB storage requirements

3. Automotive Recyclables

- 3.1 Introduction
- Establishing a depot
- 3.3 Operation and Maintenance

4. Liquid Industrial Wastes

- 4.1 Introduction
- 4.2 Regulation 347
- MOEGuidelines
- EPA regulations requiring spill prevention and control plans
- Federal environmental Emergency (E2) Requirements

VII. Clean-Up And Remediation

1. The environmental fate of contaminants

- Volatility and miscibility of gaso-
- line and other petroleum products Constituent compounds of gaso-
- line and other petroleum products Degradation through natural
- processes
- Movement in soils
- 1.5 Groundwater movement 2. Clean-up standards and
- technologies
- Site Investigation
- Guidelines and regulations 2.2 governing clean-up

3. Remediation technologies

- "Dig and Dump"
- Recovery of product
- Pre-treatment and disposal Groundwater treatment 3.4
- Bioremediation
- Approvals for treatment methods

VIII. Liability

- 1. Introduction 2. Regulatory Liability
- 2.1 Environmental Offences 2.1.1Statutory environmental
 - offences 2.1.2 Due Diligence and other defences
 - 2.1.3 Penalties
- 2.2 Administrative Orders
 - 2.2.1 Types of Orders
 - 2.2.2 Compliance with Orders
 - 2.2.3 Liable Parties
 - 2.2.4 Current, former and future landowners
 - 2.2.5 Installers, service firms, and manufacturers
 - 2.2.6 Orders binding on successors and assignees
 - 2.2.7 Allocation of costs
 - 2.2.8 Limited Liability under the new Brownfield regime

3. Civil Liability

- 3.1 Introduction to Common Law Causes of Action
- Nuisance
- Strict Liability 3.3
- Negligence 3.4 3.5
- Trespass Riparian Rights
- 4. Environmental Insurance
- Tank-Specific Policies
- 4.2 Site-Specific Policies
- 4.3 Cost Cap Policies 4.4 Service Industry Coverage

IX. Legislative Comparison

- 1. Framework in Other Jurisdictions **British Columbia**
 - 1.1.1 National Fire Code modified 1.1.2 CCME Codes followed

Alberta

- 1.2.1 Fire Code 1.2.2 Other Legislation & Guidance 1.2.3 Clean-Up
- Saskatchewan
- 1.3.1 Hazardous Substances Regs
- 1.3.2 Spills and Leaks
- 1.3.3 Clean-Up

- Manitoba 1.4.1 Petroleum Products Regs.
- 1.4.2 Used OII
- 1.4.3 Industrial Process Liquids 1.4.4 Fuel Oil
- 1.4.5 Clean-Up
- 1.5
- Quebec 1.5.1 Fuels 1.5.2 Hazardous Materials
 - 1.5.3 Clean-Up
- **Nova Scotia**
 - 1.6.1 Small Underground Systems Prohibited
 - 1.6.2 Technical Standards 1.6.3 Fuels
 - 1.6.4 National Fire Code
- 1.6.5 Used Oil 1.6.6 Clean-Up
- 1.7 New Brunswick

- 1.7.1 Used Oil
- 1.7.2 Flammable & Combustible Liquids
- 1.7.3 Fuel Oil
- 1.7.4 Additional standards

1.8 Prince Edward Island

- 1.8.1 Fuels, Lubricants, & Used Oil
- 1.8.2 Industrial Process Liquids
- 1.8.3 Used Oll 1.8.4 Clean-Up

Newfoundland and Labrador

- 1.9.1 Tank Systems Other than Small Fuel Oil Systems
- 1.9.2 Heating Oil 1.9.3 Used OII
- 1.9.4 Other Flammable and Combustible Liquids
- 1.9.5 Clean-Up

1.10 Yukon

- 1.10.1 Aboveground Tank Systems
 1.10.2 Underground Tank Systems
 1.10.3 Small Tank Systems
 1.10.4 Hazardous Substances

- 1.10.5 Motive Fuels
- 1.10.5 Motive Fuels 1.10.6 Heating Fuels 1.10.7 Other Flammable Liquids 1.10.8 Spills 1.10.9 Clean-Up

- 1.11 Northwest Territories
 - 1.11.1 Used Oil 1.11.2 Spills

1.11.3 Clean-Up 1.12Nunavut

Appendix: Sources & Reference materials

Includes links to verbatim sources in all Canadian jurisdictions as well as those provided by: Canadian Petroleum Products Institute; Canadian Standards Association CCME: National Fire Protection Association:



A trusted reference for practitioners from Canada's environmental compliance specialists ...

STORAGE TANKS IN CANADA: THE GUIDE TO REGULATION & COMPLIANCE, 2006 Edition

has been written by P. Douglas

Petrie, an Environmental Law Specialist, Certified by the Law Society of Upper Canada and Partner with Willms & Shier Environmental Lawyers LLP. In addition to his legal experience, Mr. Petrie has undergraduate and graduate environmental studies degrees. He provides daily compliance, approvals and due diligence advice to plant and EH&S managers and assists with their routine and crisis contacts with regulatory authorities.

A tank spill can happen tomorrow. Act today to:

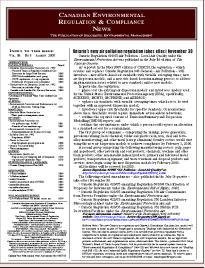
- **✓** Protect yourself and your company against the dangers of non-compliance
- **✓** Direct clients and colleagues with confidence
- ✓ Gain a clear understanding of the complex interaction of current storage tank codes, rules, regulations and guidelines
- **✓** Make sure that you always have the most up-to-date information
- ✓ Direct operations, establish and direct vital due diligence, training and maintenance protocols with confidence
- ✓ Learn at a glance what an owner/operator's regulatory standard of care was at any given time by consulting new sections on historical requirements
- ✓ Find out how the courts are interpreting due diligence and liability issues by consulting fully-annotated case law
- **✓** Discover how, where and when environmental insurance can offer an appropriate solution
- ✓ Compare cross-Canada requirements with a new comparative summary of storage tank legislation in every jurisdiction
- ✓ Access pages of Internet links and citations for all the legislative and policy references from all jurisdictions

Another trusted reference for Canadian environmental practitioners from Canada's compliance specialists...

STORAGE TANKS IN CANADA

is published by Templegate Information Services Inc. Canada's leading environmental compliance publishers. Templegate publications include:

- Canadian Environmental Regulation & Compliance News;
- Canada's Environmental Legislation;
- Workplace Environment Health
- & Safety Reporter; and
- EHS Regulatory Alert
 plus other titles dealing with
 environmental management, ISO
 14001 and environmental auditing.
 To find out more about Templegate
 Informations Services email:
 templegate@rogers.com
 or call (416)920-0768



Fill out the order form below. Insert in envelope and mail with payment to: Templegate Inc. 131 Bloor St. W., Ste. 200-206, Toronto, ON M5S 1R8

<u>Ş</u>	YES! Staying up-to-date with storage tank compliance is
)	important for my organization! Place my order for the new
)	2006 edition of "Storage Tanks in Canada." TODAY!
ह	My chaque for \$105 \(\frac{1}{2}\) (\$15 \(\frac{1}{2}\) (\$15 \(\frac{1}{2}\) (\$15 \(\frac{1}{2}\) (\$15 \(\frac{1}{2}\)) (\$15 \(\frac{1}{2}\) (\$15 \(\frac{1}{2}\)) (\$15 \(\frac{1}2\)) (\$15 \(\frac{1}2\)) (\$15 \(\frac{1}2\

		(#)	is attached.	0277288]) is enclosed. □ Please bill me.
,	. , ,				,	piry date:/
	Card holder's n	ame (please pri	nt):			
	Name:					
	Co./Organization	n:				
	Address:					
,	City:		Prov.	/State	Postal Code	
	Telephone:()		Fax: ()	
	Email addrage					



If you are not absolutely delighted by your purchase of Storage Tanks in Canada simply return it to us in good condition within 30 days and we will issue a full refund.

No questions asked!

MAIL WITH PAYMENT TO:

Templegate Information Services Inc., 131 Bloor St. W., Ste. 200-206, Toronto, Ontario, Canada M5S 1R8

FAX TO: (416)920-0620

TELEPHONE with credit card information to: (416)920-0768