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# *Environmental Management Newsletter*

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Welcome to Pollutech's Environmental Management Newsletter. The newsletter focuses on new and proposed regulations which may affect your business operations as well as provide you with news briefs on various items of environmental concern.

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## ***Air Pollution Regulation (O. Reg. 419/05)***

In November 2005, Ontario Regulation 419/05 (Air Pollution – Local Air Quality) came into affect replacing Ontario Regulation 346 (General – Air Pollution). The new regulation phases in stricter air quality standards by phasing out old dispersion modeling programs outlined in O. Reg. 346 and replacing them with more advanced air dispersion models.

The key changes incorporated into the new regulation include the following:

- New air quality standards with effects-based averaging periods;
- New dispersion models;
- Phased in approach to new models and air standards.

**There is potential for facilities that are currently in compliance with Regulation 346 to exceed the new standards outlined in Regulation 419 using the updated dispersion models.** For this reason, the MOE has permitted a phased-in approach for all industries, based on there facility NAICS code, to evaluate compliance using the new “approved” dispersion models (i.e. AERMOD) and, if necessary, request an “Alteration of Standards” if they are unable to meet the new regulatory point of impingement limits. The following schedule outlines when a facility can evaluate compliance using the updated dispersion models and request an “Alteration of Standard” if required:

- Schedule 4 Facilities – February 1, 2007 to October 31, 2008.
- Schedule 5 Facilities – February 1, 2010 to October 31, 2011.
- All other Facilities – February 1, 2013 – October 31, 2017.

### **Schedule 4: Target Sectors for 2010**

NAICS Code	Sector Description
2122	Metal Ore Mining
221112	Fossil-Fuel Electric Power Generation
324110	Petroleum Refineries
3251	Basic Chemical Manufacturing
3252	Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing
3311	Iron and Steel Mills and Ferro-Alloy Manufacturing
331410	Non-Ferrous Metal (Except Aluminum) Smelting and Refining
3315	Foundries

**Schedule 5: Target Sectors for 2013**

NAICS Code	Sector Description
3221	Pulp, Paper and Paperboard
324190	Other petroleum and coal product manufacturing
325	Chemical manufacturing
326150	Urethane and Other Foam Product (except Plytrene) Manufacturing
3279	Other Non-Metallic Mineral Product Manufacturing
331	Primary Metal Manufacturing
332	Fabricated Metal Product Manufacturing
336	Transportation Equipment Manufacturing
5622	Waste Treatment and Disposal

All other industries must comply with the new standards by 2020.

**Asbestos Regulation**

The Ontario Ministry of Labour (MOL) has issued a new Asbestos regulation that affects construction, repair and abatement activities. Regulation 278/05 replaced Regulation 838 in November 2005. A phase in approach was taken between November 2005 and November 2007 to incorporate the changes between the old and new regulation.

Some of the major changes include:

- A revised definition to “asbestos-containing material” (ACM),
- New requirements for the number of bulk samples to be collected from a homogenous area,
- Removal of ACM prior to demolition work,
- Increased requirement for ACM surveys, which now require some buildings built after 1982 to be surveyed,
- Changes to Type 1, 2 and 3 removal procedures,
- New training requirements for worker involved in Type 3 Operations.

If an owner knows, should know or assumes asbestos is present in a building, they are required to:

- Conduct an Asbestos Survey and maintain a record on the facility premises showing the location of friable and non-friable asbestos as well as notify building occupants of the information contained in the records.
- Re-inspect the condition of ACM at reasonable intervals and update records at least annually.

The regulation stipulates that ACM must be removed in the event that a building or part of a building, or equipment, is to be demolished, or ACM debris has fallen to common areas and the insulation cannot be repaired, sealed or enclosed.

The MOL has indicated that previous surveys, conducted prior to November 2005, which report asbestos analyzed samples as “not detected,” will not be “grandfathered” without collecting additional samples to prove otherwise. This means asbestos surveys conducted before November 2005 will need to be updated to comply with this Regulation.

## ***Draft PCB Regulation***

A draft regulation with respect to PCB storage and management has been issued. The draft regulation sets forth deadlines for ending the use of PCB's in concentrations at or above 50 milligrams/ kilogram, eliminating all PCB's and PCB-containing equipment currently in storage and limiting the period of time PCB's can be stored prior to elimination.

The proposed deadline for ending use and storage of PCB's is December 31, 2009.

### *Summary of Key Changes:*

- Prohibits the release, manufacture, process, import, export, offer to sell, sale and use of PCB's and products that contain certain concentrations of PCB's;
- Details the storage requirements for PCB's, products containing PCB's that are no longer in use;
- Specifies dates as to when PCB's in storage shall be eliminated; and
- Sets out maximum storage times for new PCB's and products containing PCB's that are put into storage after the proposed regulation comes into force.
- Sets forth labeling and reporting requirements for PCB's that are being stored for specified dates.

## ***Waste Audits & Waste Reduction Workplans***

The Ministry of the Environment launched an inspection blitz aimed at getting various industries and institutions to comply with the province's waste diversion and recycling regulations (O. Reg 102 and 103). The regulations came into effect in 1994 and requires organizations of a certain size to conduct waste audits and prepare waste reduction work plans.

## ***Indoor Noise Criteria***

The Ontario Government released stronger regulations for workplaces. The changes to the industrial noise requirement came into effect on July 1, 2007. They are expected to strengthen worker safety by:

- Reducing Ontario's noise exposure limit from 90 dBA to 85 dBA, and
- Introduce it as a time-weighted average (TWA) exposure limit, which gives a more accurate assessment of the amount of noise a worker is exposed to.

For more information on these and other environmental related topics please feel free to visit our website at: [www.pollutechgroup.com](http://www.pollutechgroup.com) or contact us directly and one of our staff members will be happy to assist you. For your convenience we have attached a copy of our business services page which provides a brief summary of the services we provide.



**Pollutech Environmental Limited** is an independent Canadian owned consulting firm providing services since 1969 in the fields of environmental engineering, process consulting, chemistry and biology.

Pollutech has carried out pioneering environmental consulting and science projects in a wide range of sectors, working with industry and governments at the federal, provincial and municipal levels. Industrial clientele include members of the petroleum and petrochemical industry, automotive industry, mining, milling and smelting industry, pulp and paper industry, textile industry, primary steel producers, food processing industry, organic and inorganic chemical industry, and a variety of secondary manufacturing industries.

Pollutech has undertaken international projects in over 60 countries across Europe, Asia, Central/South America, and Africa.

Pollutech has successfully completed over 1,000 Environmental Approvals and assisted industrial clients to comply with Provincial Orders issued by the Ministry of the Environment.

**Professional services provided to our industrial and government clients include:**

**GeoEnvironmental**

- Environmental Site Assessments
- Geotechnical Investigations and Instrumentation
- Soil & Debris Contaminant Studies
- Risk Assessments
- Site Remediation
- Contaminant Modelling
- Septic System impact assessment and design
- Contaminated Soil Recovery

**Air Quality Emissions**

- Source Emission Compliance Testing
- Odour Emissions Testing
- Continuous Emissions Monitoring
- Ambient Air Monitoring
- Advance USEPA Dispersion Modelling
- Air Pollution Control Equipment Assessments
- Industrial Ventilation Assessments

**Water/Wastewater Process Evaluations**

- Industrial Wastewater Treatability Testing
- Process Design of Treatment Systems
- Operations of Treatment Systems
- Process and Operations Troubleshooting
- Analytical Testing Services
- Operator Training for Treatment Systems

**Waste and Hazardous Material Management**

- Management and Disposal of Hazardous Wastes
- Asbestos, PCB and Mould Surveys/Abatement
- Hazardous Material Remediation

**Workplace Environment Services**

- Indoor Air Quality Assessments
- Industrial Hygiene & Occupational Health
- Employee Training Programs (TDGA, EMS)
- Waste Audits and Waste Reduction Plans
- Corporate environmental management programs

**Litigation Support / Expert Testimony**

- Cost Recovery Actions
- Environmental Compliance Issues
- Cost Allocation
- Responsible Party Identification
- Forensic and Historical Research
- Engineering/Scientific Technical Support
- Technical Expert Witness
- Regulatory Negotiation / Arbitration

**Environmental Management Systems (EMS)**

- EMS Implementation Planning & Support
- ISO 14001 EMS GAP Analyses
- Strategy and Policy Development
- EMS and 2<sup>nd</sup> Party Pre-Certification Audits
- Environmental Risk Assessments
- Regulatory Compliance Updates

**Regulatory Compliance and Approvals**

- Environmental Compliance Audits
- Environmental Assessments
- MISA Compliance Monitoring
- Certificates of Approval for Air, Water and Waste
- Environmental Reporting (NPRI & O. REG 127)
- Receiving Stream Outfall Dispersion Modelling

**Climate Change/Greenhouse Gas Management (GHG)**

- Emissions Testing
- Lifecycle GHG Assessments
- GHG Baseline Assessments
- Greenhouse Gas Credits

**Natural Environment Services**

- Biological Monitoring
- Water Resource Evaluations
- Phytoecology Assessments
- Toxicity Identification and Elimination (TIE) Studies
- Marine Diving & Investigations

Our consulting activities are complemented by full in-house laboratory facilities, which enhance our abilities to provide a full range of services from the design and bench scale testing stages through to pilot scale evaluation and full scale development.

Pollutech is a Qualified Verification Entity for providing Verification Services to ETV (Environmental Technology Verification) Canada Inc., is recognized by Environment Canada as a Marine Testing Facility, maintains Facility Security Clearance under Canada Public Works and Government Services, holds a Certificate of Authorization issued by Profession Engineers Ontario, and is a member of CAEAL (Canadian Association of Environmental Analytical Laboratories).

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