

This document is designated by the City of Toronto for use by dry cleaning and commercial laundry facilities as a Pollution Prevention (P2) Plan, pursuant to Municipal Code Chapter 681. A completed Plan must be submitted to Toronto Water every six years and a copy kept at the facility for inspection by the City. If you would like a copy of this form in an alternate accessible format, please contact 311 (www.toronto.ca/311).

1. Facility Information									
Facility Name					Contact Name (First, Last)				
Facility Address (Street Number, Name, Suite/Unit Number, City, Province, Postal Code)					Business Telephone Number			Business Fax Number	
					Business Email				
Number of Employees									
Days of Operation		i.e. Mon-Fri							
Hours of Operation		i.e. 9am-7pm							
# of Laundry Washers			Weight load capacity (Kg)						
# of Dryers			Weight load capacity (Kg)						
The activities at our facility (check all that apply)									
Dry Cleaning					Fill out pages 1,3, 4, and 5				
Wet Cleaning					Fill out pages 1, 2, and 5				
Commercial Laundry					Fill out pages 1, 2, and 5				
2. Management Policy Statement									
_____ (Facility Name)					is committed to the concepts and practices of Pollution Prevention Planning to meet the requirement of the City of Toronto Municipal Code Chapter 681.				
					Has supported, and will continue to support pollution prevention principles through the practice of source replacement, reduction and solid waste recycling.				
Information provided by our supplies manufacturer(s), and/or analysis of the effluent indicates that our effluent may contain subject pollutant(s) listed in Section 5 of the bylaw. Where current technology does not allow product substitution, we will support the P2 process by complying with Environment Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations and follow the Compliance Guide for Dry Cleaners.									
3. Pollution Prevention Practices									
<p>A. The concentrations of Nonylphenols (NPs) and Nonylphenol Ethoxylates (NPEs) in the wastewater discharged into the municipal sanitary sewer systems shall not be more than 0.02 mg/L and 0.2 mg/L respectively.</p> <p>B. Surfactants used as ingredients in the laundry detergents, soaps and cleaning agents contribute to the sources of NPs and NPEs. Contact the product supplier for information and ask to substitute any product containing these chemicals to products with no (or less) content of NPs and NPEs.</p> <p>C. Commercial laundry facility should not wash industrial uniforms that are contaminated with oil, grease and other regulated chemicals, such as contaminated uniforms from automotive garages, restaurants, etc., unless the wastewater is treated to prevent such oil, grease and other regulated chemicals from entering into public sewage works.</p> <p>D. All scrap, expired and off-specification chemicals, including acids, bases and other volatile petroleum based cleaning chemicals, should be sent to a Ministry of the Environment (MOE) registered waste disposal company/site for proper disposal. Do not pour / discharge such chemicals directly / indirectly into public sewage works.</p>									

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4. Commercial Laundry Services And / Or Wet Cleaning			
Do you provide laundry services at this facility? (If no, skip this page and go to page 3)			<input type="checkbox"/> Yes <input type="checkbox"/> No
Does your detergent contain Nonylphenol (NPs) and/or Nonylphenol Ethoxylates (NPEs)? (You can get this information from the supplier of the detergent)			<input type="checkbox"/> Yes <input type="checkbox"/> No
If the laundry detergent contains NPs and/or NPEs, will you substitute to a NP/NPE-free detergent?			<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, when are you planning to replace the detergent (i.e. year 2019)			
<p>Chloroform is a toxic compound that is found in laundry wastewater as a by-product of Chlorine from bleach. To reduce Chloroform concentration, will you consider the following:</p> <ul style="list-style-type: none"> • Separate materials that require bleach; • Use automatic dosing; • Reduce dosing; • Identify alternatives; • Train staff on proper bleach usage. 			<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Does your final effluent contain Chloroform concentration of over 0.04 mg/L? If Yes, please state your Pollution Prevention Option to reduce Chloroform concentration: <i>(i.e. automatic bleach dosing, new cleaner products, chloroform scavenger, organize washing procedure)</i></p>			<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Wet Cleaning replaces Dry Cleaning but without chemical solvents. Wet cleaning involves the use of a gentle washing machine using water, biodegradable soaps and conditioners, and various types of pressing and re-shaping equipment that may be specialized for many different fabric and fiber types. Will you consider moving from Dry Cleaning to a Wet Cleaning process?</p>			<input type="checkbox"/> Yes <input type="checkbox"/> No
Please list the main detergents / soaps / fabric softeners / other cleaning agents used at your facility:			
Product Name	Manufacturer	Supplier	Quantity (kg/litre per year)

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5. Dry Cleaners						
A. Dry Cleaning Application						
Number of Dry Cleaning Machines						
Choose the solvent(s) being used below:						
<u>Perc</u> (Perchloroethylene Tetrachloroethylene)	<u>Propylene glycol ethers</u> (Solvair, Rynex)	<u>Acetal</u> (Solvon or K4)	<u>Hydrocarbons</u> (DF2000 or Ecosolve)	<u>Siloxane</u> (Green Earth or D5)	<u>N-propylbromide</u> (Drysolv)	<u>Wet Cleaning</u> *
* If Wet Cleaning only, fill out page 1, 2 and 5 only.						
Are the containers used to store wastewater and residues closed at all times except when access is required for proper operation or maintenance?						<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the dry cleaning machine do any of the following:						
1. Uses the same drum for washing, extraction, drying and aeration cycles?						<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Has an integral refrigerated condenser that recovers tetrachloroethylene vapour in the recirculated air from the drum of the machine?						<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Prevents venting of the tetrachloroethylene vapours in the drum into the atmosphere during washing, extraction, drying and aeration cycles?						<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Has a refrigerated condenser?						<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Has an integral solvent – water separator that recovers solvent from waste water?						<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Has a carbon adsorption (secondary vapor control normally called a CVA, carbon vapor adsorption unit)?						<input type="checkbox"/> Yes <input type="checkbox"/> No
7. Has a carbon adsorption plus Perc sensor?						<input type="checkbox"/> Yes <input type="checkbox"/> No
8. Others						<input type="checkbox"/> Yes <input type="checkbox"/> No
What generation is the dry cleaning machine?						_____ Generation
B. Spill Containment						
Is the dry cleaning facility equipped with the following:						
1) A tetrachloroethylene–impermeable secondary containment system encompassing at least the entire surface under each dry cleaning machine, tank, or other container containing tetrachloroethylene, wastewater, or residue and capable of containing at least 110% of the capacity of the largest tank or container within the containment system?						<input type="checkbox"/> Yes <input type="checkbox"/> No
2) Tetrachloroethylene –resistant drain plugs that are readily available to seal all floor drains into which tetrachloroethylene, wastewater, or residue may flow in the event of a spill?						<input type="checkbox"/> Yes <input type="checkbox"/> No

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C. Wastewater			
How is the wastewater managed?			
Waste water is treated by the dry-cleaning machine's or the carbon adsorber's integral tetrachloroethylene – water separator and an on-site waste water treatment system that contains the following equipment:			<input type="checkbox"/>
1) a second tetrachloroethylene – water separator that recovers tetrachloroethylene from the wastewater exiting the integral tetrachloroethylene – water separator,			<input type="checkbox"/>
Note: (If you have a secondary PERC – water separator unit, please indicate make and model below)			
2) an initial filter containing activated carbon that removes the tetrachloroethylene from the wastewater exiting the second tetrachloroethylene – water separator,			<input type="checkbox"/>
3) a monitor / alarm that automatically shuts down the wastewater treatment when the initial filter becomes saturated with tetrachloroethylene, and			<input type="checkbox"/>
4) a second filter containing activated carbon that removes tetrachloroethylene from the wastewater after it passes through the initial filter and past the monitor alarm.			<input type="checkbox"/>
D. Wastewater and Residue			
What waste is hauled with a carrier approved under Part V of the Environmental Protection Act?	Wastewater		
	Residue		
Wastewater and/or Residue are transported to a waste management facility no less than once every 12 months			<input type="checkbox"/>
Name of the waste carrier			
Waste Management System Environmental Compliance Approval (ECA) number of the waste carrier			
Date of most recent removal (yyyy-mm-dd)			
6. Trained Person (as required under the Dry Cleaners Regulation, Ontario Regulation 323/94)			
Does the facility have a Trained Person?	Yes	Name	No
Does the Trained Person calculate Perchloroethylene usage to ensure there is no leakage? How many Kg of Perc is used per 1000 Kg of clothes? _____Kg Perc / 1000kg clothes	<input type="checkbox"/> Yes <input type="checkbox"/> No		

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7. Other Miscellaneous Pollution Prevention Activities	
Employee Awareness and Involvement – Management will communicate the requirements of this Pollution Prevention Plan to all employees.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Program's Success – This requires the support and commitment of management and staff. Management will solicit from employees new ideas regarding pollution prevention and preparation of future Pollution Prevention Plans.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Good Housekeeping - Good housekeeping practices will be maintained for minimizing the risk of spillage and loss of solvents and chemicals.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spill Containment and Response - A program that ensures releases do not enter the drain will be maintained. Furthermore, procedures that identify spill response procedures will be posted.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Request to the supplier - Requests will be made to the suppliers/manufacturers to take steps necessary to investigate the opportunity for reduction, replacement or possible elimination of chemical solvents.	<input type="checkbox"/> Yes <input type="checkbox"/> No

8. Declaration

I,	of	represent and declare that this
	(Contact First and Last Name)	(Facility Name)
Pollution Prevention (P2) Plan and all information and supporting documentation contained in or with this Plan comply with Chapter 681 and are accurate and complete to the best of my knowledge. I undertake to comply with this Plan and make it readily available for inspection at the subject premises by the representatives of the City of Toronto.		
Signature	Date (yyyy-mm-dd)	
Position		

Submit the Completed Pollution Prevention Plan Summary		
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by Mail	by Fax	by Email
Manager Environmental Monitoring & Protection Toronto Water 30 Dee Avenue, Toronto, Ontario M9N 1S9	416-696-3727	p3help@toronto.ca

Supporting Documentation
Please provide supporting documentation, such as subject pollutant information from suppliers (not MSDS) and sample results used in the calculation in the submission of this Pollution Prevention (P2) Plan.