

**REGISTRATION GUIDANCE MANUAL
FOR GENERATORS OF LIQUID INDUSTRIAL
AND HAZARDOUS WASTE**

DECEMBER 2001

MINISTRY OF THE ENVIRONMENT

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i IMPORTANT CHANGES FOR GENERATORS IN THIS MANUAL

There are several changes in this manual to reflect changes in the General Waste Regulation (Regulation 347) that begin in 2002 for generators of subject waste.

All generators of subject waste are now required to register annually before February 15. Existing Generator Registration numbers will expire by February 15, 2002 if not renewed between January 1 and February 15, 2002. Generators of subject waste need to register by February 15, whether the waste is shipped off-site or not. For first time generators of subject waste, Generator Registration will remain valid until they re-register between January 1 and February 15 of the following year. **If you are a generator of subject waste and your Generator Registration Number expires, you will not be able to ship hazardous waste from your site until you have re-registered.**

Beginning in 2002, Generator Registration and manifesting goes online. Through the Hazardous Waste Information Network (HWIN), electronic access is available to register, review and update your Generator Registration records. You can also use HWIN to prepare and submit waste manifests. You may obtain access to HWIN by simply logging on to the Ministry's website at: <http://www.ene.gov.on.ca>.

Generators will be responsible for checking their Generator Registration information to ensure that their subject wastes have been properly registered prior to transferring them to a carrier. Acknowledgment of Generator Registration will occur when the generator completes the registration process and the Ministry posts a Generator Registration Document on the Ministry website. Individual acknowledgment letters from the Ministry will no longer be mailed to generators.

Also beginning in 2002, all generators of subject waste will be required to pay a fee associated with their annual registration. The fee must be paid at the time of registration. Further details about the fee and special conditions for the year 2002 can be found in Appendix 11 of this manual.

Some additional questions and answers dealing with annual Generator Registration and associated fees can be found in Appendix 1 of this manual. Further questions may be directed to your local ministry office. Addresses and phone numbers can be found in Appendix 9 of this manual.

I INTRODUCTION

This guidance manual has been prepared to help you comply with the generator registration requirements of Regulation 347. Regulation 347 requires waste generators to evaluate their wastes and if found to be Hazardous or Liquid Industrial to register them with the Ministry of the Environment (MOE). It is an offense to store, process, dispose or transport such wastes in Ontario unless a Generator Registration document for the generator has been posted on the Hazardous Waste Information Network (HWIN), accessible from the MOE website.

Out-of-Province waste generators who transport or dispose of Hazardous or Liquid Industrial Wastes in Ontario must also register these wastes with the MOE. No carrier or receiver will be permitted to accept these wastes from any out-of-province generator for whom a Generator Registration document has not been posted on HWIN, accessible from the MOE website.

Regulation 347 provides a comprehensive system for monitoring Hazardous and Liquid Industrial Wastes, from their point of generation, through to their ultimate disposal. This monitoring system provides waste generators with information concerning the treatment or disposal of their wastes. The first step in the management of these wastes is the generator registration program. Information obtained from this program allows the Ministry to develop computerized waste profiles which serve as a basis for the entire waste monitoring and control system.

Beginning on January 1, 2002 generator registration is required each year and, if not renewed, expires on February 15 in the following year. Also beginning in 2002, all generators of subject waste will be required to pay a fee associated with their annual registration. The fee must be paid at the time of registration. Further details about the fee and special conditions for the year 2002 can be found in Appendix 11 of this manual.

The registration process includes three steps. The first two steps are the responsibility of the generator. The third involves subsequent Ministry activities and addresses ongoing waste generator requirements.

Step 1 will help you determine whether or not registration of your waste(s) is required. To assist you in this determination, a flowchart and explanations have been provided. If, after using the flowchart, you determine that your wastes are not subject to the registration requirements of Regulation 347, no further action need be taken. However, if your wastes are subject, your site and each of the wastes must be registered with the MOE.

Step 2 will show you how to complete and submit annual Generator Registration Reports. It explains each line of the report and the information that must be entered. Generator Registration may now be completed and submitted electronically. Alternatively, the option still exists for a hard copy of the Generator Registration Report to be completed and submitted to the MOE. Appendix 10 contains a blank Generator Registration Report which may be copied and used for this purpose. The annual Generator Registration fee for the year must also accompany the registration.

Step 3 will explain what happens to your Generator Registration Report after you have filed it with the Ministry. It briefly describes the steps to be taken by the Ministry in reviewing your report and in reconciling your Generator Registration fee for the previous calendar year. It also outlines your ongoing obligations as a waste generator.

Throughout the manual the term Subject Waste is used. Subject Wastes are Hazardous Wastes and Liquid Industrial Wastes which are subject to generator registration requirements.

This guidance manual should be used in conjunction with Regulation 347. The guidance manual has been prepared, for your convenience, to help you interpret the technical requirements of Regulation 347. While some sections of this manual, such as those explaining how to determine proper Ontario Waste Numbers, are referenced in Regulation 347, you should first refer to the Regulation itself for legal requirements, wording and interpretation.

II THREE-STEP REGISTRATION PROCESS

STEP 1 - HOW TO DETERMINE IF REGISTRATION IS REQUIRED

Introduction

All generators of wastes will need to determine whether the wastes they produce or accumulate are subject to registration requirements. Step 1 provides a systematic approach to making this decision using a flowchart and associated explanations. It will also help you determine the Waste Characteristics and corresponding MOE Waste Classes that must be entered on the Generator Registration Report. The combination of the three digit Waste Class and the single letter Waste Characteristic is referred to as the Waste Number.

The Regulation defines Hazardous Wastes in a manner similar to the United States Environmental Protection Agency. The listing and testing approach assigns specific laboratory tests and criteria wherever possible. Where tests or criteria have not been developed for specific characteristics, such as toxicity, the wastes of concern are listed.

Using this approach, a Hazardous Waste is defined as a waste that meets one of the following:

- 1) It is listed as a Hazardous Industrial Waste in Schedule 1 of Regulation 347;
- 2) It is listed as an Acute Hazardous Waste Chemical or Hazardous Waste Chemical in Schedule 2(A) or 2(B) of Regulation 347;
- 3) It contains Severely Toxic contaminants listed in Schedule 3 of Regulation 347 at a concentration greater than 1 ppm;
- 4) It is identified as being Pathological or Radioactive as presented in Regulation 347;
- 5) It is a mixture of a waste described above in 1, 2 3 or 4 and any other waste or material;
- 6) It is derived-from wastes described above in 1, 2 3 or 4;
- 7) It is identified as being a PCB waste as presented in Regulation 347;
- 8) It exceeds the criteria assigned to the characteristics of Ignitability, Corrosivity or Reactivity; or,
- 9) It produces a leachate containing any of the contaminants listed in Schedule 4 at a concentration equal to or in excess of the concentration specified for that contaminant in Schedule 4 of Regulation 347 using the Toxicity Characteristic Leaching Procedure, Method 1311 that appears in the United States Environmental Protection Agency Publication SW-846 entitled "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", as amended from time to time, or an equivalent test method approved by the Director.

The Regulation also defines Liquid Industrial Wastes and requires that they be registered with the Ministry. These are wastes from industrial or commercial sources that are not Hazardous but that are liquid. For registration purposes, the criterion to determine whether the waste is liquid or not is the Slump Test which is

found in the Regulation.

A number of specific exemptions have been provided by the Regulation. Details can be found by following the flowchart and referring to the related explanations.

ALL SUBJECT WASTES GENERATED AT A SITE MUST BE REGISTERED, EVEN IF NOT SHIPPED OFF-SITE.

Registration is not required in anticipation of wastes that may be generated through spills. Registration procedures are available for spill situations. Due to enhanced online Generator Registration capabilities, emergency registration is no longer available for process aberrations, upsets or other unusual but non-emergency situations. Contact the Spills Action Centre of the Ministry of the Environment at any time at 1-800-268-6060 during emergencies for special streamlined registration requirements. Emergency registration can only be completed through the Spills Action Centre and must be completed before subject waste can be removed from the site. Obtaining emergency registration for a one-time shipment of subject waste eliminates your requirement to submit a generator registration form for the waste. You do not have to remit a Generator Registration Fee for subject waste handled through emergency registration.

Using the Waste Identification Flowchart

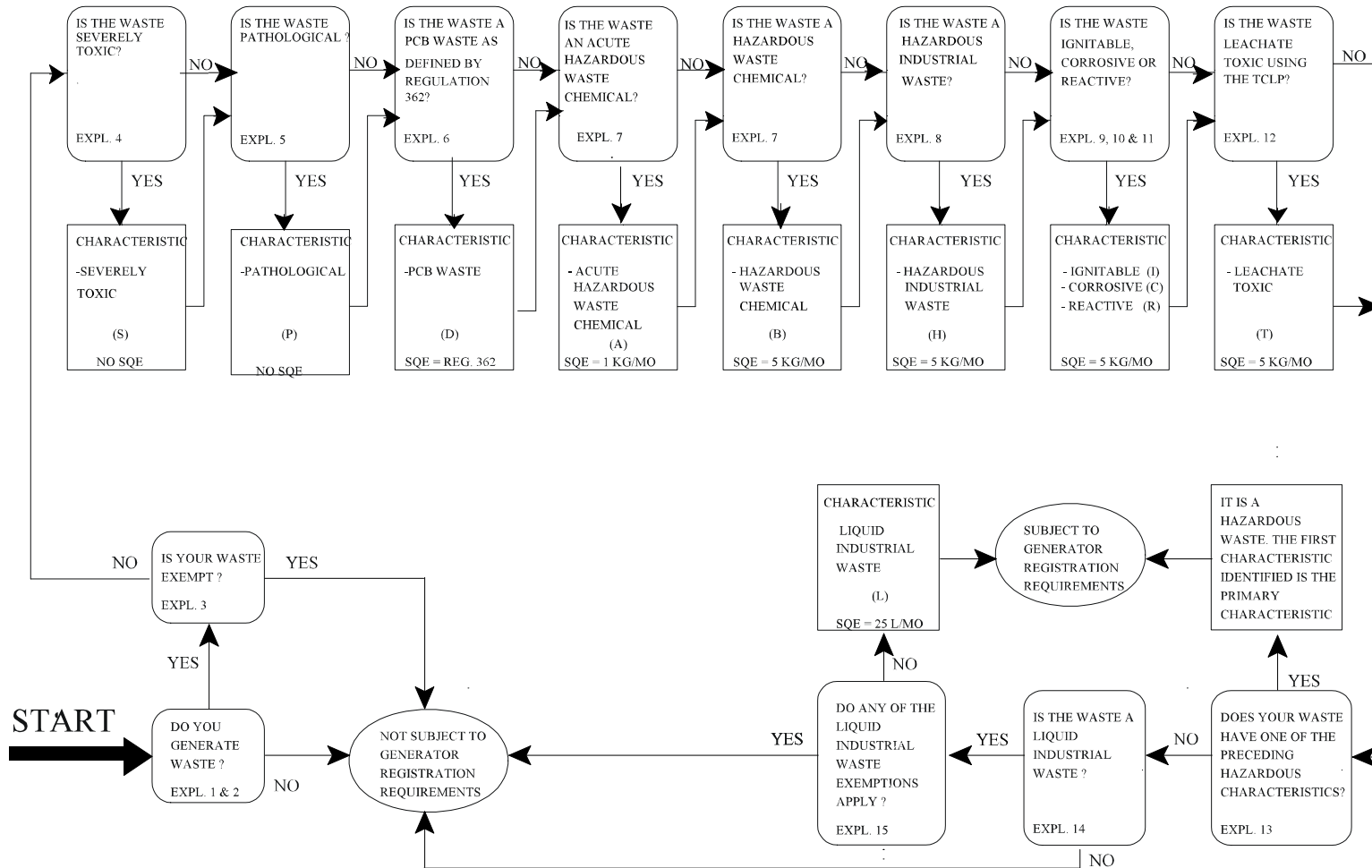
The Waste Identification Flowchart shown in Figure 1 is designed to help you determine by means of a systematic approach, whether or not you must register your facility and its wastes. In addition, the flowchart will help you identify the appropriate Waste Characteristics and Waste Classes. The combination of the three digit Waste Class and the single letter Waste Characteristic is referred to as the Waste Number. Explanations are referred to throughout the flowchart. These explanations can be found within this manual on the pages immediately following Figure 1. Typical Waste Characteristics and Waste Classes for some common wastes can be found in Appendix 2.

The flowchart must be followed to its completion to ensure that all characteristics of a particular waste have been identified and prioritized. In those cases where there is more than one hazardous Waste Characteristic, the first identified using the flowchart is defined as the "Primary Characteristic". If a second characteristic is found, it will be defined as the "Secondary Characteristic".

Once you have followed the flowchart to its completion and determined that registration is required by identifying the Primary Characteristic for your waste, you must then determine its proper three digit Waste Class. Ontario Waste Classes can be found in Appendix 2 of this manual along with some examples of each. Use your knowledge of the waste as a whole to choose a Waste Class that best describes the waste. Since wastes often contain many constituents and may consist of more than one phase, it is useful to consider the largest constituent found in the waste as representative of the waste class. In some special cases, a relatively small constituent may determine the waste class. Examples include as little as 50 ppm PCB resulting in waste class 243 (PCB) and 2% by weight total halogens resulting in waste class 241 (Halogenated Solvents and Residues).

DO NOT ATTEMPT TO COMPLETE YOUR GENERATOR REGISTRATION REPORT UNTIL YOU HAVE FOLLOWED THE FLOWCHART THROUGH TO COMPLETION AND READ ALL PERTINENT EXPLANATIONS.

FIGURE 1: WASTE IDENTIFICATION FLOWCHART



Flowchart Explanations

Note: These explanations can only be used along with the flowchart.

Explanation 1 -- Generator

The Regulation defines generator and waste generating facility (site). The intent is to include any person, by site, who through ownership, management, operation or control, creates or stores wastes. Generators include operators of commercial and manufacturing facilities that produce wastes as well as operators of waste disposal, transfer, bulking, treatment or processing facilities that forward materials off-site for subsequent management.

Explanation 2 -- Waste

Wastes are defined by the *Environmental Protection Act* (EPA) and include all materials that you would normally consider to be waste. Ashes, garbage, industrial waste, commercial waste, and other residues from industrial and commercial activities are included.

All products and by-products from waste transfer, bulking, treatment or processing facilities are considered to be wastes. These include oil recovered from oily water treatment facilities as well as blended or bulked waste solvents destined for either disposal or recycle. Commercial chemical products or by-products, including those that are off-specification or that have exceeded their expiry date, are also considered to be wastes.

Economic value is not a good indicator of whether or not a material is a waste. Waste materials being sold for their heating value or otherwise being reused, recycled, recovered or reclaimed are still wastes. Exemptions are provided if certain conditions are met. See Explanation 3(f) for details.

By-products or intermediates from a series of traditional refining operations, such as mineral or metal recovery, are not wastes. For example, sludges from an electrolytic recovery process for metals, such as nickel or copper, which are subsequently processed to remove precious metals, such as silver or gold, are not considered to be wastes.

Explanation 3 -- Exemptions

A number of exemptions are provided for both Hazardous and Liquid Industrial Wastes. These exempted wastes do not have to comply with registration or manifest requirements. The following are exempted wastes:

(a) **Hauled Sewage:**

Hauled sewage, sometimes referred to as septage, is exempt from the definitions of Liquid Industrial Waste and Hazardous Waste. This includes waste that is suitable for storage, treatment or disposal in a sewage system regulated under Part 8 of the building code if the waste is not fully disposed of at the site where it is produced, other than waste from a sewage works approved under section 53 of the *Ontario Water Resources Act* (OWRA) that is conveyed away from the site by a sewer or waste in a vehicle holding tank. Although exempt from registration, haulers of this waste are required to obtain a Certificate of Approval for a waste management system for transportation and application purposes. In addition, the site where these wastes are to be applied must also have a certificate of approval for a waste disposal site to accept these wastes.

- (b) **Sewage Sludge:**
Wastes from municipally owned sewage works, or crown owned sewage works subject to an agreement with a municipality and approved under the OWRA are exempt from the definitions of Liquid Industrial Waste and Hazardous Waste. In addition, wastes from privately owned sewage works, that only receive wastes similar in character to domestic sewage, are also exempt. The intent of the qualifying phrase in the preceding sentence is to limit the exemption to those industrial works that treat sewage from persons. The exemption does not apply to industrial sewage.
- (c) **Discharges from On-Site Wastewater Treatment Facilities:**
Treated wastewater discharged to watercourses from OWRA approved treatment facilities are exempt. However, Hazardous Wastes going to these treatment facilities and any wastes generated by them (other than wastewater), such as sludges or skimmings, are not exempt. See Figure 2 for clarification.
- (d) **Water Treatment Sludges:**
Wastes from the operation of a water works subject to the OWRA are exempt from the definition of Liquid Industrial Waste.
- (e) **Domestic Wastes:**
Wastes generated by households are exempt from the definitions of Liquid Industrial Waste and Hazardous Waste. This exemption does not include waste from institutions, hotels, motels, etc.
- (f) **Wastes exempted from Part V of the Act and Regulation 347:**
The following wastes are exempted from Part V of the Act and Regulation 347:
- 1) Agricultural wastes;
 - 2) Condemned animals or parts thereof at a plant licensed under the *Meat Inspection Act (Ontario)* or an establishment operating under the *Meat Inspection Act (Canada)*;
 - 3) Dead animals to which the *Dead Animal Disposal Act* applies;
 - 4) Inert fill;
 - 5) Rock fill or mill tailings from a mine;
 - 6) hazardous waste or liquid industrial waste transferred by a generator for direct transportation to a site,
 - i. to be wholly used at a site in an ongoing agricultural, commercial, manufacturing or industrial process or operation used principally for functions other than waste management if the process or operation does not involve combustion or land application of the waste, only if the carrier has in his or her possession while transporting the material a document from the owner or operator of the site to which the material is being transported agreeing to accept the material, specifying what use will be made of it and stipulating that the process or operation described in that paragraph is ongoing at the time the material is being transported,
 - ii. to be promptly packaged for retail sale to meet a realistic market demand, or
 - iii. to be offered for retail sale to meet a realistic market demand;

- 7) Residue remaining after metal is recovered from wire and cable and transferred by a generator for direct transportation to a site at which it will be processed for recovery of metal and plastic using a process that does not involve combustion or land application of waste.
- 8) Pickle liquor transferred by a generator for direct transportation to a site at which it is to be wholly utilized as a treatment chemical in,
 - i. A sewage works that is subject to the OWRA, or
 - ii. A wastewater treatment facility that discharges into a sanitary sewer.
- 9) Solid photographic waste that contains silver, including spent chemical recovery cartridges that contain silver, transferred by a generator and destined for a site at which it is to be processed for recovery of silver.

In every sense, wastes described in item 6 above can be used as raw materials and as such are exempt from the registration and all other provisions of the Regulation and Part V of the Act. In order to obtain this exemption, the waste must be used completely, either in a process or operation whose function is other than waste management, or be taken directly for retail sale or prompt packaging before retail sale. It should be noted that the Regulation also addresses wastes that are neither hazardous or liquid industrial.

"Wholly" has not been defined but is intended to mean that all of the wastes must enter the process or operation. Minor modifications to the wastes such as incidental sedimentation in storage tanks where treatment is not intended would be acceptable.

Whether the function of a process is for waste management or not can be determined in most cases by reviewing its viability if the waste were not available. Processes or operations that are not viable without the incoming wastes are deemed to be in the business of waste management. For example, an oily water treatment facility is not viable without oily water. Therefore, the facility is considered to be a waste management facility and the oily water does not meet the requirements of the exemption described in item 6 above. On the other hand, a metal degreasing operation can continue to operate without waste solvents. The supply of waste solvents is simply an alternative which is used to obtain an economic benefit.

Processes that combust the waste or apply the waste to the land are not included in this exemption and thus would not meet the recyclable material requirements described above.

(g) **Oil and Gas Well Wastes:**

Wastes such as drilling fluids and produced waters associated with the exploration, development or production of crude oil or natural gas are exempt from Part V of the EPA. The management of these wastes, also known as oil field brine as defined in Regulation 341 (Deep Well Disposal), is controlled through the provisions of the *Oil, Gas and Salt Resources Act* and the general provisions of the EPA.

(h) **Retail Motor Vehicle Service Station or Service Facility Wastes:**

Wastes resulting from the servicing of motor vehicles at retail motor vehicle service stations or

service facilities are not included in the definition of Subject Waste. These wastes are still defined as Hazardous or Liquid Industrial Wastes and must only be handled at appropriately approved facilities. Examples of operations that are included in this exemption are retail gasoline service stations, retail automotive repair garages, retail car washes, and retail service centres at automobile dealerships.

This exemption is limited to retail motor vehicle service stations or service facilities that have a valid written agreement for the collection and management of their wastes from the servicing of motor vehicles, with a waste management system approved under Part V of the Act to haul such waste off-site.

Such wastes can include waste crankcase oil from oil storage tanks, water removed from gasoline storage tanks and gasoline contaminated groundwater. A guideline to address the management of these wastes, can be viewed by visiting the Ministry's website. The guideline provides further information about managing typical wastes generated at these facilities and detail to be included in the written agreement previously noted.

(i) **Incinerator Ash:**

Incinerator ash (bottom ash) from the incineration of waste that is neither hazardous nor liquid industrial is exempt from the definition of Hazardous Waste. Incinerator ash does not include fly-ash. Incinerator ash is ash residue which contains less than 10% by weight combustible material.

(j) **Small Quantities:**

Small quantity exemptions are provided for some waste types under the definitions of Liquid Industrial Waste and Hazardous Waste. The exempted quantities vary and are dependent on the specific Waste Characteristic. As such, this exemption cannot be determined until the waste has been evaluated and the Waste Characteristic established. Small quantity exemptions are discussed under the explanations dealing with each characteristic (Explanations 4 to 15).

(k) **Empty Containers or Inner Liners:**

Empty containers or inner liners may or may not be exempt under the definitions of Liquid Industrial Waste and Hazardous Waste depending on the characteristic of the material they contained. As such, this exemption cannot be determined until the waste has been evaluated and the Waste Characteristic established. Empty container and inner liner exemptions are discussed under the explanations dealing with each characteristic (Explanations 4 to 15).

Empty container is defined by the Regulation and means a container from which wastes and other materials have been removed using common removal practices such as pumping or pouring and that contains less than 2.5 centimetres of material on the bottom of the container.

(l) **Specified Health Care Waste:**

Subject Waste does not include waste from,

- (i) a nursing home under the *Nursing Homes Act*,
- (ii) a home under the *Homes for the Aged and Rest Homes Act*,
- (iii) a home for special care under the *Homes for Special Care Act*,

- (iv) the professional office of a member of the Royal College of Dental Surgeons of Ontario, or
- (v) the professional office of a member of the College of Physicians and Surgeons of Ontario;

These health care wastes are still defined as Hazardous or Liquid Industrial Wastes and must only be handled at appropriately approved facilities.

(m) **Selected Waste Depots:**

Selected waste that is collected at selected waste depots is exempt . These wastes are still defined as Hazardous or Liquid Industrial Wastes and must only be handled at appropriately approved facilities. This exemption is limited to selected waste depots that have one or more valid written agreements with a waste management system approved under Part V of the Act to have the selected wastes hauled off-site.

Selected waste can be waste anti-freeze, waste lubricant and waste oil filters that is returned to the depot, typically by people performing maintenance on their own vehicles. A depot can collect a selected waste only if it sells the selected product.

(n) **Other Exemptions:**

There are a number of other exemptions that apply specifically to Liquid Industrial Wastes. These exemptions do not apply to Hazardous Wastes. See Explanation 14 for details of these limited exemptions

Explanation 4 -- Severely Toxic Wastes

Wastes that contain any one or more of the contaminants listed in Schedule 3 of Regulation 347 at a concentration greater than 1 part per million are characterized as Severely Toxic. A copy of Schedule 3 is appended to this manual (Appendix 7). Severely Toxic Waste could include pesticides such as 2,4,5-T and pentachlorophenol, but are unlikely to include industrial waste streams.

A mixture of a Severely Toxic Waste and any other waste or material remains Severely Toxic Waste.

Waste that is derived from Severely Toxic Waste remains Severely Toxic Waste unless it is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste does not have characteristics similar to the characteristics of Severely Toxic waste.

Because of the concern with Severely Toxic Waste, there is no small quantity exemption. Empty containers and inner liners are also Hazardous.

If you generate a waste that is Severely Toxic, you will need to specify the following Waste Characteristic and the appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Severely Toxic (S)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 of this manual beside the listing that best describes your waste. Add the letter "S" to this number to specify the above Waste Characteristic, for example, 242S.

Explanation 5 -- Pathological Wastes

The following definition in Regulation 347 has been developed to identify Pathological wastes. The descriptions are for the most part self-explanatory.

Pathological waste means,

- i. any part of the human body, including tissues and bodily fluids, but excluding fluids, extracted teeth, hair, nail clippings and the like, that are not infectious,
- ii. any part of the carcass of an animal infected with a communicable disease or suspected by a licensed veterinary practitioner to be infected with a communicable disease, or
- iii. non-anatomical waste infected with communicable disease.

If you are in doubt as to whether or not your waste is Pathological (infectious) you should consult with a licensed medical practitioner or veterinary doctor.

A mixture of a Pathological Waste and any other waste or material remains Pathological Waste.

Waste that is derived from Pathological Waste remains Pathological Waste unless it is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste does not have characteristics similar to the characteristics of Pathological waste.

Because of the concern with Pathological Wastes, there is no small quantity exemption. Empty containers and liners are also Hazardous unless they have been incinerated, autoclaved or otherwise sterilized to make them non-infectious.

If you generate a waste that is Pathological, you will need to specify the following Waste Characteristic and the appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic	-	Pathological (P)
Waste Class	-	Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. This will most likely be 312. Add the letter " P " to this number to specify the above Waste Characteristic, for example, 312P.

Explanation 6 -- PCB (Polychlorinated biphenyl) Wastes

The legal definition for PCB Wastes is provided in Ontario Regulation 362. Generally, wastes that contain PCBs at concentrations greater than 50 parts per million (ppm), by weight, are PCB Wastes. Refer to Regulation 362 for further details.

Electrical or other equipment that contains PCBs that is still in service does not require registration at this time. However, should the equipment come out of service or the PCB liquid be drained from the equipment, registration would then be required.

PCB Wastes stored on a site, whether or not authorized by any other Regulation, must be registered.

If you generate PCB Wastes or have PCB Wastes stored, you will need to specify the following Waste Characteristic and the appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - PCB Waste (**D**)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. This will most likely be 243. Add the letter "**D**" to this number to specify the above Waste Characteristic, for example, 243D.

Explanation 7 -- Acute Hazardous Waste Chemicals and Hazardous Waste Chemicals

For wastes that are commercial chemical products or combinations of commercial chemical products, consideration must be given to Schedule 2 Part A - Acute Hazardous Waste Chemicals and Schedule 2 Part B - Hazardous Waste Chemicals of Regulation 347. Copies of these Schedules are appended to this manual (Appendices 5 and 6).

Acute Hazardous Waste Chemicals or Hazardous Waste Chemicals are commercial chemical products or manufacturing intermediates that from time to time are off-specification, or otherwise unacceptable for use. The definition of commercial waste chemical includes materials such as pharmaceutical or pesticide waste products that contain active ingredients from Schedule 2 Part A or Part B. Active ingredients are chemical constituents that have been included in a formulated product for an intended effect. For example, a waste pesticide formulation that includes dieldrin (listed in Schedule 2 Part A) as an active ingredient would be classified as an Acute Hazardous Waste Chemical.

IT IS IMPORTANT TO NOTE THAT SCHEDULE 2 PART A AND PART B ARE NOT LISTS OF CONTAMINANTS THAT, IF PRESENT IN A WASTE STREAM, MAKE THE STREAM HAZARDOUS. Essentially these are lists of products or by-products that are seldom disposed of but, for whatever reason, occasionally become wastes.

Generators of waste chemicals should carefully review Schedule 2 Part A and Part B. These schedules are arranged alphabetically. Since there are a number of ways of naming any chemical, it is recommended that synonyms for each chemical be identified and each synonym compared to the Schedules. For commercial chemical products that are known only by a trade name, the supplier should be contacted to identify the generic name or the active ingredients for comparison with the Schedules.

A mixture of an Acute Hazardous Waste Chemical and any other waste or material remains an Acute Hazardous Waste Chemical. Likewise, a mixture of a Hazardous Waste Chemical and any other waste or material remains a Hazardous Waste Chemical

Waste derived from an Acute Hazardous Waste Chemical remains an Acute Hazardous Waste Chemical unless it is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste does not have characteristics similar to the characteristics of Acute Hazardous Waste Chemical.

Waste derived from a Hazardous Waste Chemical remains a Hazardous Waste Chemical unless it is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste does not have characteristics similar to the characteristics of Hazardous Waste Chemical. The same rule applies to waste derived from a Hazardous Waste Chemical.

For wastes listed in SCHEDULE 2 PART A or wastes containing active ingredients from Schedule 2 Part A, the small quantity exemption is 1 kg of waste per month. If you generate more than 1 kg of this type of waste in a one month period, or accumulate more than 1 kg on your site over any period, then registration is required. Containers greater than 20 litres in capacity that contained Schedule 2 Part A products are Hazardous unless they have been triple rinsed using an appropriate solvent. Inner liners weighing more than 10 kg that contained Schedule 2 Part A products are also Hazardous unless they have been triple rinsed using an appropriate solvent.

If you generate a waste that is found in Schedule 2 Part A or that contains active ingredients from Schedule 2 Part A, you will need to specify the following Waste Characteristic and the appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Acute Hazardous Waste Chemical (**A**)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. For example, it could be: 148 if the chemical is inorganic, 263 if the chemical is organic, or 261 if the waste is pharmaceutical. Add the letter "A" to this number to specify the above Waste Characteristic, for example, 148A, 263A or 261A.

For wastes found in SCHEDULE 2 PART B or wastes containing active ingredients from Schedule 2 Part B, the small quantity exemption is 5 kg of waste per month. If you generate more than 5 kg of this type of waste in a one month period or accumulate more than 5 kg on your site over any period, registration is required. Empty containers and inner liners are not hazardous.

If you generate a waste that is found in Schedule 2 Part B or that contains active ingredients from Schedule 2 Part B, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Hazardous Waste Chemical (**B**)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. For example it could be: 148 if the chemical is inorganic, 263 if the chemical is organic or 261 if the waste is a pharmaceutical. Add the letter "B" to specify the above Waste Characteristic, for example, 148B, 263B or 261B.

Explanation 8 -- Hazardous Industrial Waste

Industrial waste streams that are considered to be Hazardous are listed in Schedule 1 of Regulation 347. A copy of Schedule 1 is appended to this manual (Appendix 4). The Schedule contains descriptions of both generic and process-specific waste streams that can be compared to your process waste stream.

A mixture of a Hazardous Industrial Waste and any other waste or material remains Hazardous Industrial Waste.

Waste that is derived from Hazardous Industrial Waste remains Hazardous Industrial Waste unless it is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39

Director, the waste does not have characteristics similar to the characteristics of Hazardous Industrial Waste.

For industrial waste streams, the small quantity exemption is 5 kg per month. If you generate more than 5 kg in a one month period, or accumulate more than 5 kg on your site over any period, registration is required. Empty containers and inner liners are not hazardous.

If you generate a waste listed in Schedule 1, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Hazardous Industrial Waste (**H**)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "**H**" to this number to specify the above Waste Characteristic, for example, 211H.

Explanation 9 -- Ignitable Wastes

Wastes that are Ignitable as defined in Regulation 347 by any of the following four criteria are hazardous.

1. It is a liquid, other than an aqueous solution containing less than 24 per cent alcohol by volume, and has a flash point less than 61°C as determined by any of the following test methods:

ASTM D-56-79,
ASTM D-3243-77,
ASTM D-3278-78,
ASTM D-93-79,

or as determined by an equivalent test method approved by the Director.

Examples of Ignitable liquid waste include ethanol, Varsol, gasoline or petroleum distillates.

2. It is a solid and is capable, under standard temperature and pressure, of causing fire due to friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.

An example of an Ignitable solid waste is sodium metal.

3. It is an ignitable compressed gas as defined by Class 2, Division D of the regulations under the *Transportation of Dangerous Goods Act* (Canada) (TDGA).

Class 2, Division D gases are defined as substances that

- (a) have a critical temperature less than 50°C or an absolute vapour pressure greater than 294 kPa at 50°C; or
- (b) exert an absolute pressure, in the cylinder, packaging tube or tank in which it is contained, greater than 275±1 kPa at 21.1°C or 717±2 kPa at 54.4°C.

and

- (i) are ignitable at normal atmospheric pressure when in a mixture of 13 percent or less by volume with air, or
- (ii) have a flammability range of at least 12.

Examples of ignitable compressed gases include methane (natural gas), butane or butane mixtures, and propane.

- 4. It is an oxidizing substance as defined by Class 5, Divisions 1 and 2 in the regulations under the TDGA.

This includes substances such as chlorates, permanganates, and nitrates which readily yield oxygen to stimulate, or contribute to, the combustion of other materials. Substances that contain the bivalent -O-O- structure are also considered to be oxidizers.

To assist in your evaluation, Schedule II, List II of the regulations under TDGA lists a number of oxidizing substances as Class 5 dangerous goods. These are substances that have a 5.1 or 5.2 designation in column III of this list. In the same manner, ignitable compressed gases are included in this list with a 2.1 designation.

For Ignitable wastes the small quantity exemption is 5 kg per month. If you generate more than 5 kg in a one month period, or accumulate more than 5 kg on your site over any period, registration is required. Empty containers and liners are not hazardous.

If you generate a waste that is Ignitable, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Classification - Ignitable (I)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "I" to this number to specify the above Waste Characteristic, for example, 213I.

Explanation 10 -- Corrosive Wastes

Wastes that are Corrosive as defined in Regulation 347 by any of the following two criteria are Hazardous.

- 1. It is aqueous and has a pH less than or equal to 2.0 or greater than or equal to 12.5 as determined by a pH meter, or
- 2. It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 millimetres per year at a test temperature of 55°C using the National Association of Corrosion Engineers (NACE) test method TM-01-69 or an equivalent test approved by the Director.

For Corrosive wastes the small quantity exemption is 5 kg per month. If you generate more than 5 kg in a one month period, or accumulate more than 5 kg on your site over any period, registration is required. Empty containers and inner liners are not hazardous.

If you generate a waste that is Corrosive, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Corrosive (C)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "C" to this number to specify the above Waste Characteristic, for example, 111C.

Explanation 11 -- Reactive Wastes

The Reactive waste definition presented in Regulation 347 encompasses a number of diverse properties. Generally, the intent is to include wastes that are susceptible to violent/vigorous reactions or are likely to generate toxic fumes. The following criteria are used to define Reactive wastes in Regulation 347.

1. It is normally unstable and readily undergoes violent change without detonating.
2. It reacts violently with water.
3. It forms potentially explosive mixtures with water.
4. When mixed with water it generates toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment.
5. It is a cyanide or sulphide bearing waste which, when exposed to pH conditions between 2.0 and 12.5, can generate toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment.
6. It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
7. It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
8. It is a Class 1 explosive as defined in regulations under the TDGA. Schedule II List I of TDGR lists most Class 1 explosives.

For Reactive wastes the small quantity exemption is 5 kg per month. If you generate more than 5 kg in a one month period, or accumulate more than 5 kg on your site over any period, then registration is required. Empty containers or inner liners are not Hazardous.

If you generate a waste that is Reactive, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Reactive (R)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "R" to this number to specify the above Waste Characteristic, for example, 263R.

Explanation 12 -- Leachate Toxic Wastes

Leachate Toxic Waste means a waste that produces leachate containing any of the contaminants listed in Schedule 4 of Regulation 347 (Appendix 8) at a concentration equal to or in excess of the concentration specified for that contaminant in Schedule 4 using the Toxicity Characteristic Leaching Procedure (TCLP), Method 1311 that appears in the United States Environmental Protection Agency Publication SW-846 entitled “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods”, as amended from time to time, or an equivalent test method approved by the Director is used to make this determination. This characteristic, as described by the TCLP, applies to both liquid and solid wastes, and includes multi-phase wastes.

For Leachate Toxic wastes the small quantity exemption is 5 kg of wastes per month. If you generate more than 5 kg in a one month period, or accumulate more than 5 kg on your site over any period, registration is required. Empty containers and liners are not hazardous.

If you generate a waste that is Leachate Toxic, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Leachate Toxic (**T**)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "**T**" to this number to specify the above Waste Characteristic, for example, 131T.

Explanation 13 – Hazardous Wastes

If a waste exhibits any of the Waste Characteristics discussed in explanations 4 through 12, it is a hazardous waste and is subject to registration provisions. As previously stated, the first characteristic identified in the flow chart is defined as the primary Waste Characteristic for the waste and is used to identify its proper MOE Waste Class during registration. Where it is desirable to manage a number of wastes with different primary characteristics as a single load, the primary characteristic of “A” is chosen as the default. This load is referred to as a “lab pack”. Further information about lab packs can be found in question 7 of Appendix 1.

A number of explanations refer to waste that is derived from waste having the specified Waste Characteristic retaining its original hazardous characteristic. For the purpose of this regulation, a waste is derived from a Hazardous Industrial Waste, an Acute Hazardous Waste Chemical, a Hazardous Waste Chemical, a Severely Toxic Waste, a Pathological Waste or a Radioactive Waste (these hazardous wastes are often referred to as “listed wastes”) if that waste is blended, stabilized, processed, treated or disposed. A waste subject to the “derived from” rule retains its Waste Characteristic even if processed at an approved facility unless the certificate of approval for the facility specifically states that the resultant waste no longer retains the original characteristic.

In a similar manner, a number of explanations indicate that the waste mixed with any other waste or material retains its original hazardous characteristic. For the purpose of this regulation, a Hazardous Industrial Waste, an Acute Hazardous Waste Chemical, a Hazardous Waste Chemical, a Severely Toxic Waste, a Pathological Waste or a Radioactive Waste mixed with any other waste or material retains its Waste Characteristic even if processed at an approved facility unless the certificate of approval for the facility specifically states that the resultant waste no longer retains the original characteristic. This “mixing” rule acts as an incentive to segregate different waste types and deters the dilution of a specified hazardous waste to alter its primary characteristic.

It is sometimes possible for “derived from” or mixed listed waste to become exempt, not captured or “de-listed” from the “derived from” or “mixing” rules. See questions 1, 2, 3, 6 and 7 in Appendix 1 for more information about these rules.

Explanation 14 – Liquid Industrial Wastes

Liquid Industrial Wastes are also subject to the registration provisions. These wastes are broadly defined to include any liquid waste from industrial, commercial, manufacturing, research or experimental activities. Liquid wastes include wastes that are obvious liquids such as spent acid solutions as well as those sludges that fail the Slump Test included in Regulation 347.

The Slump Test involves placing the waste in question in a 30 cm open inverted cone. The cone is removed and the immediate decrease (slump) in the height of the waste material is measured. If the material slumps such that the original height is reduced by 15 cm or more, the waste is a liquid. Refer to the Slump Test in Regulation 347 for details.

For Liquid Industrial wastes the small quantity exemption is 25 litres per month. If you generate more than 25 litres in a one month period, or accumulate more than 25 litres on your site over any period, registration is required.

If you generate a waste that is Liquid Industrial, you will need to specify the following Waste Characteristic and appropriate MOE Waste Class on the Generator Registration Report.

Waste Characteristic - Liquid Industrial Waste (L)
Waste Class - Select the 3-digit Waste Class number from Appendix 2 beside the listing that best describes your waste. Add the letter "L" to this number to specify the above Waste Characteristic, for example, 121L.

Explanation 15 – Liquid Industrial Waste Exemptions

For the purposes of generator registration, there are a number of exemptions that apply only to Liquid Industrial Wastes. They are as follows:

- (a) Discharges to Sanitary Sewers:
Wastes or wastewater that are discharged directly by a generator to a sanitary sewer (either municipally owned or privately owned) that is located at the waste generation site are exempt. This exemption does not apply to Hazardous Wastes.
- (b) Food Processing Wastes:
Non-hazardous wastes from the processing of food are exempt. These wastes can include those from food packing, food processing, food preserving, wineries and cheese making facilities. Grease and other liquid wastes from restaurants and other food preparation facilities are also included in this exemption.
- (c) Waste from the operation of a water works subject to the *Ontario Water Resources Act*.
- (d) Waste from the operation of a sewage works, as referred to in the definition of hazardous waste.

- (d) Drilling fluids and produced waters associated with the exploration, development or production of crude oil or natural gas.
- (e) Processed organic waste.
- (f) Asbestos waste.

Summary of Waste Streams Requiring Generator Registration

Figure 2 summarizes common situations and identifies those waste streams that need to be registered. Descriptions are provided for each of the seven situations outlined. Figure 2 was included to further assist you with the identification of waste streams subject to registration. You will still need to follow through the Waste Identification Flowchart (Figure 1) and the explanations associated with it to ensure that you have identified all of your Subject Wastes.

The following are the descriptions of the seven situations outlined in Figure 2.

1. Private Wastewater Treatment Facilities

- (a) Hazardous Wastes discharged to on-site private wastewater treatment facilities/processes must be registered. Sludges or skimmings from wastewater treatment facilities must also be registered. Wastewater discharges from these facilities to a watercourse, however, do not require registration.
- (b) For companies that have multi-step OWRA approved wastewater treatment processes, registration is required for all of the independent Hazardous discharges to the final OWRA approved wastewater treatment process. Wastes discharged to intermediate treatment processes do not require registration. Discharges from the final OWRA approved treatment process to watercourse do not require registration.

2. Municipal Sanitary Sewers

Individual Hazardous Wastes discharged to a municipal sanitary sewer must be registered. A company or laboratory discharging Hazardous Wastes into a drain, which leads to a municipal sewer, must register each individual Hazardous Waste discharged. Laboratory facilities, such as educational, research and quality control laboratories, are required to estimate the types and quantities of Hazardous Wastes disposed of in this manner and to register them accordingly.

3. Off-Site Water Pollution Control Plants

All Hazardous and Liquid Industrial Wastes that are hauled off-site to an approved OWRA Water Pollution Control Plant (WPCP) are registerable. Wastewater discharges from the approved WPCP do not require registration.

4. On-site Waste Management Facilities

All Subject Wastes disposed of by means of an on-site waste management facility, such as a landfill, must be registered.

5. On-Site Combustion Facilities

All Subject Wastes going to an on-site combustion facility, such as a boiler, must be registered.

6. Other On-Site Treatment or Processing Facilities

Wastes discharged to other on-site processes, such as bulking or blending operations do not need to be registered. Subject Wastes that are subsequently hauled off-site are registerable. Wastes that are bulked or blended and returned back to an on-site process operation are not registerable.

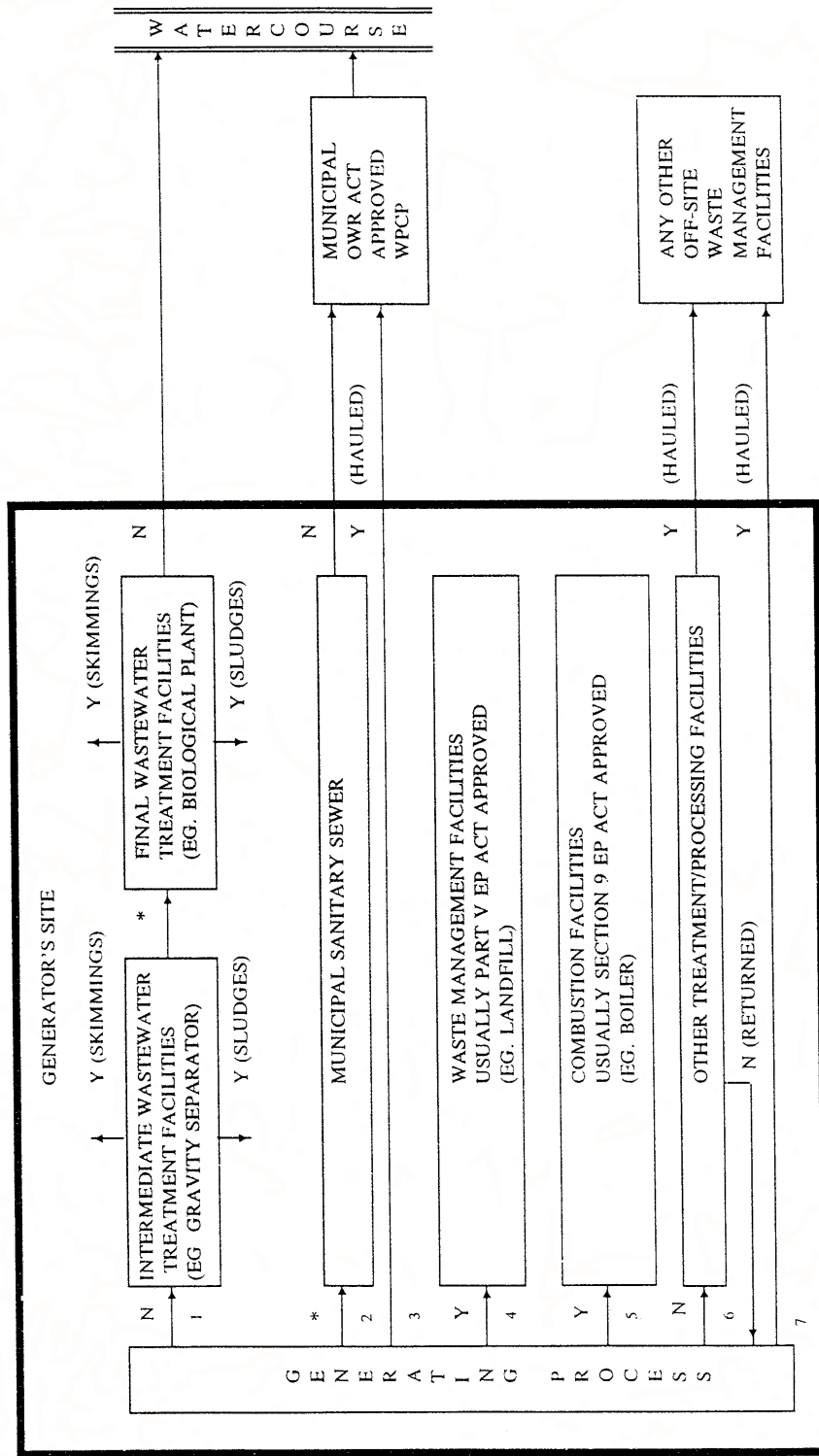
7. Off-site Waste Management Facilities

All Subject Wastes that are hauled to an off-site waste management facility are registerable.

NOTE:

Waste management or waste treatment facilities can also be waste generating facilities if residues or discharges from these facilities are Subject Wastes.

FIGURE 2: WASTE STREAMS REQUIRING GENERATOR REGISTRATION



NOTE: Small quantity exemptions apply to all of the above situations. Any of the above on-site management facilities producing wastes (sludges, skimmings, etc.) become generating facilities and resulting wastes may be subject to registration based on destination.

WPCP - Water Pollution Control Plant
LIW - Liquid Industrial Waste

N - No Registration Required
Y - Hazardous, LIW Registration Required
* - Only Hazardous Waste Registration Required

STEP 2 - HOW TO COMPLETE AND FILE YOUR REGISTRATION FORM

DO NOT ATTEMPT STEP 2 UNTIL YOU HAVE FOLLOWED THE FLOWCHART IN STEP 1 THROUGH TO COMPLETION.

If you determine that you are a generator of Subject Wastes, in Step 1 of this manual, you must register your waste generation facility with the Ministry, and obtain a Generator Registration Number that may be found on your Generator Registration Document. Each subject waste generated at a facility must be added to your Generator Registration Document. Your Generator Registration document remains valid until February 15 the following year. Once a facility has been initially registered, Generator Registration is required each year for every subject waste generated at a facility and must be completed between January 1 and February 15. To register, you must submit a completed Generator Registration Report to be accompanied by the required Generator Registration fee. Further information about the annual Generator Registration fee is found in Appendix 11 of this manual.

There are two ways to submit a Generator Registration Report. The Generator Registration Report must be submitted using a form or format provided or approved by the Ministry. Electronic registration can be submitted by using the HWIN application accessible through the MOE's web site at <http://www.ene.gov.on.ca>. When using electronic registration, you can obtain immediate confirmation that you have successfully registered. Electronic registration is secure and allows you to review and update your registration information online. In order to utilize the electronic registration capability, each generator must designate at least one administrator charged with overall electronic site access responsibility. For more information on electronic generator registration, please visit the web site identified above.

A copy of a Generator Registration Report is also found in Appendix 10 of this manual and may be photocopied and used for a paper submission. Always ensure that an original signature is used on any paper submission.

The following provides a detailed description of what is required under each item in the Generator Registration Report. For further clarification see the examples of properly completed reports that are appended to this manual (Appendix 10).

Part 1 - Generator Identification

The Regulation requires that you register with the Ministry, separately for each site where you produce Subject Wastes. The term site is explicitly defined under the subsequent discussion of Items 7 and 8. It is recognized that some large industrial complexes may have several separate sites within a small area. Separate Generator Registration Reports must be for each site.

You must identify your organization, the generating site and a responsible official in Part 1 of the Generator Registration Report. The following provides a line by line explanation.

Item 1:

If this Generator Registration Report is for an Ontario site and is the initial registration for the current calendar year, check this box. The required Generator Registration fee must accompany this submission.

Item 2:

Check this box if your Ontario site has already registered for the current calendar year. Enter your Ontario

Generator Registration Number previously received in the spaces provided.

Item 3:

Applicants located outside Ontario should enter the waste site registration number assigned by their Provincial/State environmental authority, where such numbers are issued. If this is the initial registration for the current calendar year, the required Generator Registration fee must accompany this submission.

Items 4, 5, and 6:

Enter your full legal company name as registered, plus the complete mailing address for correspondence from the Ministry.

Items 7 and 8:

Enter the location where the wastes listed in Part 2 of the report are generated, even if this site is the same as the mailing address. Each site must be registered separately with the Ministry. Site has been specifically defined and means one property or several contiguous properties, owned or leased by the generator, where passage from one property to the next involves crossing but not traveling along a public highway. Item 8 refers to your local municipality, i.e. city, town, village or township. It does not refer to a post office location, county or regional municipality.

Item 9:

Enter the name and telephone number of a contact person at the generating site authorized by the company to access the Generator Registration Document on the Ministry's website. This person should be familiar with the wastes and in charge of their management. He or she should be able to answer technical questions relating to the Generator Registration Report and be able to provide assistance in the event of an emergency.

Item 10:

Enter the 6-digit North American Industry Classification System (NAICS) codes for the facility at the site location identified in Items 7 and 8. A list of NAICS codes currently in use by Statistics Canada has been appended to this manual (see Appendix 3). More than one NAICS code can apply to a particular facility. Boxes have been provided for up to three NAICS codes. Additional NAICS codes can be added in the space just to the right of these boxes. For complete descriptions of NAICS codes and further information visit the home page for NAICS on Statistics Canada's website at:

<http://www.statcan.ca/english/Subjects/Standard/index.htm>

Item 11:

Enter the total number of wastes, from the site location shown in Items 7 and 8, which are to be registered with this report.

Items 12, 13, 14 and 15:

An official who can act on behalf of the generator must sign the report. Consultants or others who are not employees of the generator cannot sign. The official's name, position and dated signature must be included. The contact person identified in Item 9 may also be the responsible official for the generator signing the report. For electronic registration and for any electronic access to a generator's file, the generator must designate an official administrator responsible for electronic site access.

Item 16:

Item 16 will be completed by Ministry staff.

Part 2 - Waste Identification

A separate Part 2 of the Generator Registration Report must be completed for each Subject Waste that you generate at the facility identified in Items 7 and 8 from Part 1 of the report. To streamline the review of your wastes, all wastes generated at the same site should be registered at the same time. The following provides an item by item explanation for Part 2 of the report.

Item 1:

Provide a general description of your waste and if appropriate include details such as the physical state, colour, principal components, contaminants and contaminant concentrations. Do not include results from detailed experimental analyses in this box.

Item 2:

Provide a general description of the generating process for the Subject Waste. Where applicable, include details such as a generic process name, feed materials and products. If your waste is generated by pollution control equipment, provide a description of the process or operation that generated the discharge or emission.

Item 3:

Specify the average quantity of Subject Waste expected to be generated or accumulated during the course of the calendar year. If the waste is produced continuously, indicate the amount produced per month. If the waste is produced in batches, indicate the amount per batch and the number of batches per month. These numbers are estimates and it is recognized that they will be subject to change. Re-registration during the calendar year is not required if these quantities change.

Item 4:

Enter the Primary Characteristic found in Step 1 of this guidance manual. The Primary Characteristic is the first characteristic of a waste found using the Waste Identification Flowchart.

Enter the data that caused the above characteristic to be selected during your Step 1 review. For example, if a waste is Corrosive, the pH or the results of the corrosion test should be used. If the waste was found to be Ignitable based on a flash point test, then the results of this test should be indicated. Since most waste characteristics vary, a range of data is acceptable. For characteristics such as Reactivity that do not require specific tests, enter the narrative criteria that best describes your waste.

Specify the laboratory or laboratories used to perform the analyses required to generate the above data. If the data was generated using an on-site laboratory, this should be specified.

Where the data has been estimated and is not based on laboratory analyses of the Subject Waste, indicate the basis for the estimate. Company records or reference texts should be indicated.

In the space provided, insert the MOE Waste Number which you identified during Step 1. This will consist of a 3-digit number (Ontario Waste Class) plus a single letter, e.g. 263A or 121L.

Space is also provided for a Hazardous Waste Number. This number can be found by reference to the federal Transportation of Dangerous Goods Regulations (TDGR) not Regulation 347. For further information, contact Transport Canada (613) 992-4624, Environment Canada (613) 997-3377 or the Dangerous Goods Coordinator at the Ministry of Transportation (905) 704-2500. The Hazardous Waste

Number will be required on waste manifests to comply with TDGR.

Enter the approximate specific gravity of your waste and in the space provided enter the letter "S", "L" or "G" if your waste is solid, liquid or gaseous (compressed gases), respectively.

Item 5:

If a Secondary Characteristic was found during your Step 1 review, enter this characteristic at this point. Most wastes will not have a Secondary Characteristic.

Enter the analytical data that caused the above characteristic to be identified. A range of data is acceptable.

Part 3 - Waste Management

The Generator Registration Report requires that you identify your principal carrier and receiver for the Subject Wastes listed in Part 2. You do not have to re-register your wastes during the calendar year.

Item 1:

Enter the company name, address, and receiver number for the principal waste receiver of the waste you have registered. If you intend to deal with more than one receiver, simply enter the information for the waste receiver that you think will receive the largest portion of the waste you have identified in Part 2. The receiver number to be entered is the number issued by the authority where the facility is located, i.e. MOE, U.S. EPA, Province of Quebec, Michigan, etc.

If your waste is discharged to a municipal sanitary sewer or to an on-site wastewater treatment facility, identify the appropriate municipality, or wastewater treatment facility, as the principal intended receiver. Insert the corresponding Certificate of Approval number for the private wastewater treatment facility in the space provided for the receiver number.

If your waste is disposed of in an on-site landfill, indicate this and insert the Certificate of Approval number for the landfill (Part V, *Environmental Protection Act*).

If your waste is burned on-site then indicate this and insert the Certificate of Approval number for the combustion facility (Section 9, *Environmental Protection Act*).

If PCB wastes stored on-site are being registered, the words "on-site storage" should be entered.

Item 2:

Enter the company name, address, and Ontario carrier number for your principal waste carrier. This number should be obtained directly from your carrier. Do not complete this section for:

- wastes discharged directly into a municipal sanitary sewer,
- wastes discharged to an on-site wastewater treatment facility,
- PCB wastes being stored on-site,
- wastes disposed of in an on-site landfill, wastes burned on-site.

Filing Reports

Completed Generator Registration Reports must be submitted to each year along with the applicable fee. The deadline for submitting annual Generator Registration Reports before your registration expires is February

15 each year. If your registration does expire, your subject waste cannot be transferred to a waste transportation system until you have submitted your Generator Registration Report and the Ministry has posted your Generator Registration Documentation on its website at <http://www.ene.gov.on.ca>. If, during the year, you generate a new waste or your waste changes from that originally declared, you must also register or amend those waste streams.

Provisions for emergencies have been provided to ensure that registration does not result in delays. This provision only applies to emergencies such as a reportable spill covered under the *Environmental Protection Act*. Any previous procedure you may have experienced that varies from the new emergency registration procedure no longer applies. Contact the Ministry in the event of such an emergency. Emergency registration can only be completed through the Spills Action Centre and must be completed before subject waste can be removed from the site. Appendix 9 lists the phone numbers and locations of the Spills Action Centre and all of the regional and district offices of the Ministry of the Environment. Emergency registration is expected to be a one-time occurrence. No fee is required for emergency registration.

If submitting a Generator Registration Report electronically, complete and check the report for accuracy, then submit it along with the applicable fee. A transaction confirmation will be received acknowledging that the submission has been successfully transmitted. This confirmation **does not** mean that Generator Registration has been accepted. Confirmation of successful Generator Registration can only be determined by viewing the Ministry's website for the Generator Registration Document with the Generator Registration Number for each site. A written copy of the Generator Registration Document can be obtained from the Ministry upon request and payment of \$25.

Paper copies of Generator Registration Reports can also be submitted to the Ministry of the Environment by mailing them to:

Environmental Monitoring & Reporting Branch, Area "M"
Ontario Ministry of the Environment
135 St. Clair Avenue West
Toronto, ON M4V 1P5

STEP 3 - WHAT HAPPENS AFTER YOUR REPORT HAS BEEN FILED

Acknowledgment of Registration

When submitting your Generator Registration Report and associated fee to the Ministry of the Environment, it will be subjected to a pre-screening by the Ministry. If registering electronically, the registration will not be accepted report will be returned and amendments required if any errors or omissions are identified during this screening or if the required fee is not included. If a paper copy of the registration has been submitted, it will be returned to the generator if any errors or omissions are identified during the pre-screening or if the required fee is not included.

Upon successful registration, the Ministry will post a Generator Registration Document for your facility that will acknowledge that your waste is registered. This acknowledgment will provide you with your Generator Registration Number and waste numbers. You must use these numbers on manifests during all subsequent transactions concerning Subject Wastes that you generate. It is your responsibility to ensure that a Generator Registration Document for your facility has been posted on the Ministry's website and that all the information on it is correct. You cannot transfer subject waste until your annual Generator Registration Document has been posted along with information for the subject waste being transferred.

The selection of accurate waste numbers is the responsibility of the of each waste generator. The waste numbers posted on the Generation Registration Document for your facility must not be considered confirmation of the accuracy of the information submitted by you. If, due to new information or re-assessment of information submitted, you feel your waste is inappropriately classified, you should revise your Generator Registration Document with a supplemental registration.

Post-Acknowledgment Review

After the Ministry has posted your Generator Registration Document, your facility may be subject to a more detailed review of its waste management practices by the district office of the Ministry that is responsible for your facility. The district office may conduct a detailed post-acknowledgment review that may result in requests for additional information or site visits. The Regulation requires that you supply this information and that the information becomes part of your Generator Registration Report.

It is important for you to note that you, as a waste generator, are responsible for the characterization of your wastes and the information submitted. The Ministry review is only intended to assist you in this process. If your waste is found to be incorrectly characterized or the information on the Generator Registration Report is incorrect even after your Generator Registration Document has been posted, you are liable for prosecution.

Manifest Requirements

You are required to use the numbered provincial manifest form for all waste transactions. This manifest can be an electronic form or a paper form which has been in effect since July 1, 1985 to enable you to comply with Regulation 347 and the federal and provincial dangerous goods transportation requirements. An example of the paper form is included in this manual. Numbered manifests are available electronically on HWIN, which is accessible through the Ministry's website. When using an electronic manifest, the generator shall give the carrier electronic access to the manifest to complete section B (Carrier) of the manifest. The generator must ensure section A of the manifest is properly completed and electronically transmit the manifest with section A (generator) and section B (carrier) completed to the Director. When using the electronic manifest, a paper

copy does not have to be returned to the Ministry nor is the generator required to retain a record. If requested by the carrier, the generator is required to print a paper copy of the electronically submitted manifest and give it to the carrier.

HWIN will not recognize any generator, carrier or receiver that has not inputted their profile into the Ministry's website. Electronic manifest access rights for each user are defined through their profile.

If not using electronic manifests, intact numbered manifests will be available through your carrier. See Regulation 347 and Figure 4 for the proper distribution of paper manifests. The generator is required to retain a record of the paper manifest (copy 2 of the manifest) for a period of two years.

After the date that your Generator Registration Document has been posted, you must use your "Generator Registration Number" and appropriate waste numbers when completing Part A of the manifest form for every waste load that is hauled off-site.

If you require assistance completing the manifest form, contact the local district office of the Ministry of the Environment (Appendix 9).

Supplemental Registration

While Generator Registration must be completed every calendar year, there are occasions due to a significant change where a supplemental registration is necessary after the initial annual registration has occurred. Significant changes include:

- change in company name, address or telephone number
- change in responsible official or contact for the generator
- addition of registerable wastes
- change in Waste Characteristic or Waste Class.

As a waste generator, it is your responsibility to complete and submit a supplementary Generator Registration Report if significant changes have occurred. This report must be sent to the Ministry's Environmental Monitoring & Reporting Branch within 15 days of the date the change occurred. There is no flat fee associated with this supplemental Generator Registration Report provided that the facility has a valid Generator Registration Document posted on the Ministry's web site. Fees related to manifest and tonnage components during the calendar year must still be paid for additional subject waste being registered.

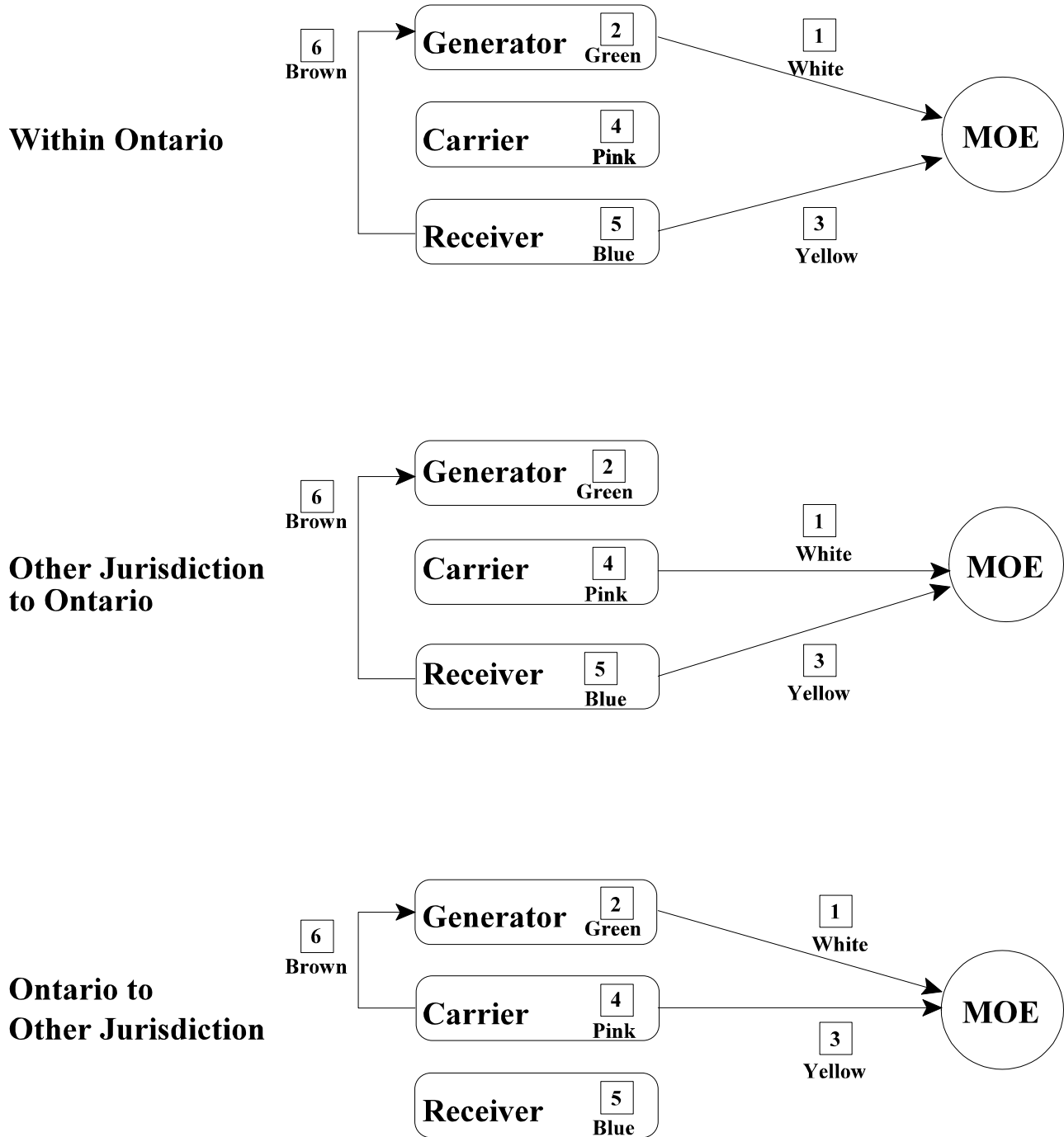
Information Available to the Public

The public will have access to the following information submitted on the Generator Registration Report:

- Company name and address
- Waste numbers
- Volumes generated.

Generator registration and manifest information is available on the Ministry web site. A written copy of the Generator Registration Document for an individual site is available to any person upon request and payment of \$25.

FIG. 4 DISTRIBUTION OF MANIFEST FORMS



Note: If copies 1 and 3 are required by the other jurisdiction, photocopies are acceptable for submission to the MOE.

III APPENDICES

APPENDIX 1

- Technical Questions -

Appendix 1 - Technical Questions

The following section is a list of questions that will be frequently asked by users of this manual. The information contained in the questions and answers listed below forms part of the Ministry of the Environment's (MOE) interpretation of the Regulatory Improvements for Hazardous Waste Management. Many of these questions arose during the MOE's consultation on the proposed Regulatory Improvements for Hazardous Waste Management.

1. Question: To what types of waste does the "derived from" rule apply?

Response: The "derived from" rule applies to waste that is derived from a Hazardous Industrial Waste (Schedule 1), an Acute Hazardous Waste Chemical (Schedule 2A), a Hazardous Waste Chemical (Schedule 2B), a Severely Toxic Waste, a Pathological Waste or a Radioactive Waste. A waste is derived from a hazardous waste if it is produced from any of the above hazardous wastes by virtue of it being blended, stabilized, processed, treated or disposed. The "derived from" rule does not apply to characteristic hazardous wastes (Corrosive Waste, Ignitable Waste, Leachate Toxic Waste or Reactive Waste).

2. Question: Is there any way for such wastes to become exempt, or not be captured by this rule?

Response: Yes. There are three potential ways for a waste to become exempt from the "derived from" rule. They are:

- (a) if the waste is specifically listed in Schedules 1.1, 2.1, or 2.2 of the Regulation (Schedule 1.1 now includes exemptions from the "derived from" rule adapted from U.S. regulations that apply to residues from the treatment of specific wastes using very specific treatment processes.);
- (b) if a formal "de-listing" has been received from the MOE for a specific waste, in which case it will eventually be added to Schedules 1.1, 2.1, or 2.2 as part of the regulatory amendment process ; or
- (c) in accordance with a site specific Certificate of Approval issued under Part V of the *Environmental Protection Act* that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of the waste from which it was derived.

3. Question: How does a listed hazardous waste become "de-listed"?

Response: Schedule 1 of Regulation 347 contains descriptions of both generic and process-specific industrial hazardous waste streams. Most of the wastes from specific sources have been listed because of the toxicity of the constituents in those wastes. A listed waste may no longer exhibit hazardous characteristics if a facility uses or processes raw materials differently from the industrial processes considered when the Regulation was written. Regulation 347 provides the opportunity to "delist" or review the status of such a waste, in other words, to exclude it from the Schedule. It is emphasized that this type of review pertains only to a specific waste from a specific facility.

An application to "de-list" a listed hazardous waste must include detailed results of a

comprehensive testing and analysis program, demonstrating that the specific waste in question does not exceed the criteria for which it was originally designated as hazardous. An application is technically evaluated by the MOE's Hazardous Waste Review Committee (HWRC). Upon recommendation by the HWRC, the applicant must then conduct a thorough public consultation program. Both the technical evaluation and the results of the public consultation must be to the satisfaction of the HWRC before it can make a recommendation to "de-list" the waste. If successful, a delisting can be enacted by an amendment to Regulation 347 or by a Certificate of Approval under Part V of the *Environmental Protection Act*.

Further details are provided in the MOE document "Guidance Manual for Hazardous Waste Categorization and Review Program".

4. Question: A number of non-hazardous wastes will now be considered hazardous. Does that mean that landfills that had been accepting such wastes have been accepting hazardous wastes until now?

Response: No, these provisions are not retroactive. Existing landfill sites are environmentally protective. They have been designed and approved to manage the wastes they have been accepting to date. These amendments are part of the MOE's efforts to continually improve the management of wastes that will make the regulations even more environmentally protective. These changes make hazardous waste rules the most stringent in Ontario's history.

5. Question: What impact will the Regulatory Improvements for Hazardous Waste Management have on MOE approved waste sites?

Response: Upon the effective date of these new requirements (March 31, 2001), some sites may no longer be allowed to accept certain wastes they have received in the past unless they obtain a specific amendment to their Certificate of Approval issued by the MOE.

Certain wastes that were previously non-hazardous could become hazardous waste. An example could be a sludge that "passed" the former Leachate Extraction Procedure (LEP) now, following testing using the new Toxicity Characteristic Leaching Procedure (TCLP), "fails" the test for one of the 59 contaminants newly added to Schedule 4. Such a waste would now be hazardous and could not be received at a facility approved only for non-hazardous wastes. Another example could be a waste that previously was either non-hazardous or hazardous based on a tested characteristic but may now be specifically listed under the amended Schedule 1. Such a waste may have previously been able to be received and treated at a waste management facility under its Part V approval but now that it is a listed waste, that facility's waste management approval would need to be amended to reflect this regulatory change.

6. Question: I am planning to decontaminate my industrial property. Based on historical operations, the site was home to an industrial process identified on Schedule 1 or the soil is contaminated with chemicals that appear on Schedule 2 of Regulation 347. Even if there are only a few "hot spots" of contamination, is my entire site a listed hazardous waste because of the

“mixture” rule?

Response: Industrial sites are usually contaminated through accidental spills of hazardous waste or spills of product chemicals or past negligence. Wastes generated from the decontamination of these sites are referred to as remediation wastes - not waste streams created during normal industrial or manufacturing operations. The MOE has decided that strict application of the “mixture” and “derived-from” rules is not appropriate for remediation wastes.

Most spills or contamination due to past negligence result generally in large quantities of soil or soil-like materials containing relatively low concentrations of chemicals. Strict application of the “mixture” and “derived-from” rules to contaminated sites would therefore cause many tonnes of soil or soil-like materials to be regulated as listed hazardous waste despite containing low concentration of chemicals and posing little actual health or environmental threat. Contaminated soils or soil-like materials can still present health or environmental threats if they are not properly handled and/or disposed properly. However, these remediation wastes must be properly assessed and characterized under the provisions of Regulation 347 to determine if they possess any other hazardous waste characteristics. For example, the use of the TCLP on these wastes could still be required to determine if the wastes were hazardous.

7. Question: How is the management of and subsequent registration of waste derived from the management of “lab packs” at a Part V approved waste management facility affected by the “mixture” and “derived-from” rules?

Response: In situations where a number of various wastes are being managed, it is often administratively useful to assume the worst likely hazardous waste characteristic for all the waste and manage them as one load. This situation often arises in laboratories during inventory clean-up and hence the term “lab pack” has been attributed to this scenario. Although not limited to laboratories, “lab packs” involve individual packing of each waste and managing the whole load using either the waste class of 148A (inorganic wastes) or 263A (organic wastes). The primary characteristic of “A” is chosen as it is the first characteristic in the flowchart which is likely to be present in an assortment of different chemicals. For example, a “lab pack” may contain individual containers containing hazardous wastes with characteristics such as “I”, “B”, “C”, “T” and “A”.

At a Part V approved waste management facility, “lab packs” may simply be transferred and shipped out in the same containers that they arrived in. In this situation, these outgoing “lab packs” should be registered as either 148A or 263A.

However, the Part V approval of a waste management facility may allow the “lab packs” to be emptied and the individual waste containers from inside the “lab pack” sorted by characteristic. Contents from these individual containers could then be poured into larger storage containers for bulking purposes, such as pouring the contents of small containers of “T” wastes into a larger storage container of “I” wastes. This type of mixing results in the contents of the larger storage container maintaining an “I” characteristic, despite the small containers of “I” waste originally coming from a “lab pack” with an “A” characteristic.

8. Question: The Leachate Extraction Procedure (LEP), previously in Regulation 347, specified the size

and type of vessel to be used in the extraction procedure. Why is there no similar requirement in the procedure for the new TCLP?

Response: The definition of Leachate Toxic Waste in Regulation 347 makes direct reference to the use of the TCLP prescribed in Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", United States EPA Publication SW-846 as incorporated by reference in S260.11 of SubChapter I - Solid Wastes in regulations under the *Resource Conservation Recovery Act*.

Method 1311, unlike the LEP method, requires two (2) extraction vessels; the Zero-Headspace Extraction Vessel (ZHE) and the Bottle Extraction Vessel (BEV). The ZHE vessel is for use only when the waste is being tested for the mobility of volatile parameters. Method 1311 specifies that the vessels shall have an internal volume of 500-600 ml. When the waste is being evaluated using the nonvolatile extraction, Method 1311 requires the use of a jar with sufficient capacity to hold the sample and the extraction fluid. Headspace is allowed in this vessel.

A full text of the test method can be obtained by either contacting the Ministry's Public Information Centre at 416-325-4000, by visiting the Ministry's Environmental Bill of Rights Registry web site at

http://www.ene.gov.on.ca/envision/env_reg/er/documents/2000/RA00E0002.htm or by visiting the USEPA's web site at <http://www.epa.gov/epaoswer/hazwaste/test/main.htm>.

Work is underway in Canada, sponsored in part by the Canadian Council of Ministers of the Environment, to develop a Canadian standard procedure for the TCLP. Until a time when that work is complete and there is agreement to adopt a Canadian procedure, the Ministry will continue to require that USEPA Method 1311 be used.

9. Question: Is it still necessary to inform the Ministry through Generator Registration, if my process creates wastes that fall into the category of Registerable Solids?

Response: No, as part of the Regulatory Improvements for Hazardous Waste Management, the requirement to register waste that is not Hazardous Waste or Liquid Industrial Waste has been removed. Under the Leachate Extraction Procedure and unrevised Schedule 4 in Regulation 347, waste that produced leachate containing one or more contaminants in concentrations between 10 and 100 times the value indicated in Schedule 4 was considered Registerable Solid waste and was subject to the Generator Registration requirements. This waste was never considered to be hazardous and generators now no longer need to register this waste. This is now consistent with other jurisdictions that have never required this waste to be registered.

10. Question: I am currently a registered generator. Do I need to register immediately in the year 2002 or can I ship my waste before I re-register?

Response: Your current registration expires on Feb 15, 2002 so you can transport your currently registered waste using your existing generator registration number until that date. It would be prudent, however, to re-register in January 2002 since any generator of subject waste is now required to re-register by February 15 each year. You are still required to pay the manifest and tonnage fees associated with subject waste generated during the calendar year.

11. Question: I am currently registered for a hazardous waste with a leachate toxic (T) characteristic. Upon analyzing a sample using the TCLP, I've determined the waste is not hazardous. Can I remove the waste from my Generator Registration Document? Do I still have to pay the fee estimated by the Director?
- Response: Information posted on the Generator Registration Document should reflect information you have submitted to the Ministry. It is your responsibility to correct the information identified on your Generator Registration Document where it is not accurate. If you have already registered for the year, a supplementary Generator Registration Report can be submitted at any time during the year with no additional fee. The flat Generator Registration fee of \$50 cannot be waived once you have registered for the year, but the manifest and tonnage fees are based on activity during the year and may vary from the estimate provided by the Director. A reconciliation will occur at the end of each calendar year to determine if a credit or balance has resulted from the Director's estimate.
12. Question: I have always managed my used oil as a Liquid Industrial Waste (L). Do I have to pay the tonnage component of the fee for this waste?
- Response: If your waste has a primary characteristic of Liquid Industrial Waste then it is not a hazardous waste and the tonnage component of the fee does not apply. The manifest component does, however, apply to any manifested movement of the waste. As the generator of the waste, it is your responsibility to ensure that the liquid industrial waste is actually non-hazardous. Liquid wastes, such as waste oil, may exhibit various hazardous characteristics including Leachate Toxicity (T) since the TCLP applies to both liquid and solid wastes. For liquids with less than 0.5 % filterable solids, the liquid is considered the TCLP extract. If a liquid tests hazardous under the TCLP and is not otherwise exempt from generator registration requirements, it is subject to the tonnage component of the fee.
13. Question: I have not received an updated acknowledgment letter from the Ministry after I registered this year. Should I follow-up with the Ministry?
- Response: Acknowledgment letters are no longer being routinely issued by the Ministry. After February 15, 2002 no previously issued acknowledgment letter issued by the Ministry will remain valid. To confirm that you have been properly registered, check the Ministry's website at <http://www.ene.gov.on.ca> to ensure your Generator Registration Document with the correct information has been posted. If you have already registered for the year but there is incorrect information on your posted document, please correct the information by submitting a supplemental Generator Registration Report. No fee is required for the supplemental report. Should you wish the Ministry to send you an acknowledgment letter, a fee of \$25 must accompany the request.
14. Question: I generate hazardous waste but do not use a manifest. I dispose of it on-site. Do I need to register and pay a Generator Registration fee?
- Response: Yes, all generators of subject waste, including those that manage it through on-site disposal, must register annually and pay the associated fee. You are required to estimate the quantity of subject waste expected for the calendar year at the time of Generator Registration, and will be expected to report the actual quantity disposed on-site for the calendar year upon the subsequent year's registration. You must also keep records of the quantity, waste number and method of disposal for each subject waste which has been disposed on-site, for a two

year period.

14. Question: During annual Generator Registration, I estimated that I would generate 50,000 kg of hazardous waste during the year. I actually generated 40,000 kg during the year and only disposed of 35,000 kg (5,000kg remains in storage at the end of the year and will be disposed at some time during the next year.) For which quantity do I have to pay a fee?

Response: You must pay the tonnage fee on the actual quantity of hazardous waste disposed not on your estimate of that quantity entered during Generator Registration. Since the fees are calculated based on calendar year, any quantity of hazardous waste generated during the year which remains in storage at the end of the calendar year is not included in the calculation of tonnage fees for that year.

APPENDIX 2

Ministry of the Environment Waste Classes

Appendix 2 - Ministry of the Environment Waste Classes

INORGANIC WASTES

Acid Solutions

Examples

- | | |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 111 Spent pickle liquor | Acid solutions of sulphuric and hydrochloric acids containing ferrous salts from steel pickling. |
| 112 Acid solutions, sludges and residues containing heavy metals | Solutions of sulphuric, hydrochloric and nitric acids containing copper, nickel, chromium, zinc, cadmium, tin, lead or other heavy metals; chromic acid waste; acidic emission control sludges from secondary lead smelting. |
| 113 Acid solutions, sludges and residues containing other metals and non-metals | Solutions of sulphuric, hydrochloric, hydrofluoric and nitric acids containing sodium, potassium, calcium, magnesium or aluminum; equipment cleaning acids; cation regenerant; reactor acid washes; catalyst acid and acid washes. |
| 114 Other inorganic acid wastes | Off-specification acids; by-product hydrochloric acid; dilute acid solutions; acid test residues. |

Alkaline Solutions

Examples

- | | |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 121 Alkaline solutions, sludges and residues containing heavy metals | Metal finishing wastes; plating baths; spent solutions containing metals such as copper, zinc, tin, cadmium; case hardening sludges; spent cyanide destruction residues; dewatered solids from metal and cyanide finishing wastes and cyanide destruction. |
| 122 Alkaline solutions, sludges and residues containing other metals and non-metals, not containing cyanides | Alkaline solutions from aluminum surface coating and etching; alkali cleaner waste; waste lime sludges and slurries; anion regenerants. |
| 123 Alkaline phosphates | Bonderizing waste; zinc phosphates; ferrous phosphates; phosphate cleaners. |

Aqueous Salts

Examples

- | | |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 131 Neutralized solutions, sludges and residues containing heavy metals | Metal finishing waste treatment sludges containing copper, chromium, zinc, nickel or cadmium; neutral salt bath sludges and washes; lime sludge from metal finishing waste treatment; dewatered solids from these processes |
| 132 Neutralized solutions, sludges and residues containing other metals | Aluminum surface coating treatment sludges; alum and gypsum sludges. |
| 133 Brines, chlor-alkali sludges and residues | Waste brines from chlor-alkali plants; neutralized hydrochloric acid; brine treatment sludges; dewatered solids from brine treatment. |
| 134 Wastes containing sulphides | Petroleum aqueous refinery condensates. |
| 135 Waste containing other reactive anions | Waste containing chlorates; hypochlorite; bromate or thiosulphate. |

Miscellaneous Inorganic Wastes and Mixed Wastes

Examples

141 Inorganic waste from pigment manufacturing	Wastewater and sludges from the production of chrome yellow, molybdate orange, zinc yellow, chrome green and iron pigments; dewatered solids from these sources.
142 Primary lead, zinc and copper smelting wastes	Slurries, sludges and surface impoundment solids; treatment plant sludges; anode slimes and leachate residues; dewatered solids from these sources.
143 Residues from steel making	Emission control sludges and dusts; precipitator residues from steel plants; dewatered solids from these sources.
144 Liquid tannery waste sludges	Lime waste mixtures; chrome tan liquors; dehairing solutions and sludges.
145 Wastes from the use of paints, pigments and coatings	Paint spray booth sludges and wastes; paper coating wastes; ink sludges; paint sludges.
146 Other specified inorganic sludges, slurries or solids	Flue gas scrubber wastes; wet fly ash; dust collector wastes; metal dust and abrasives wastes; foundry sands; mud sediment and water; tank bottoms from waste storage tanks that contained mixed inorganic wastes; heavy sludges from waste screening/filtration at transfer/processing sites not otherwise specified in this table.
147 Chemical fertilizer wastes	Solutions, sludges and residues containing ammonia, urea, nitrates and phosphates from nitrogen fertilizer plants.
148 Miscellaneous waste inorganic chemicals	Waste inorganic chemicals including laboratory, surplus or off-specification chemicals, that are not otherwise specified in this table.
149 Landfill leachate	Surface run-off and leachate collected from landfill sites.
150 Inert inorganic wastes	Sand and water from catch basins at car washes; slurries from the polishing and cutting of marble.

ORGANIC WASTES

Non-halogenated Spent Solvents

Examples

211 Aromatic solvents and residues	Benzene, toluene, xylene solvents and residues.
212 Aliphatic solvents and residues	Acetone, methylethylketone and residues, alcohols, cyclohexane and residues.
213 Petroleum distillates	Varsol, white spirits and petroleum distillates.

Fuels

Examples

221 Light fuels	Gasoline, kerosene, diesel, tank drainings/washings/bottoms, spill clean-up residues.
222 Heavy fuels	Bunker, asphalts, tank drainings/washings/bottoms, spill clean-up residues.

Resins and Plastics

Examples

- 231 Latex wastes Waste latexes, latex crumb and residues.
- 232 Polymeric resins Polyester, epoxy, urethane, phenolic resins, intermediates and solvent mixtures.
- 233 Other polymeric wastes Off-specification materials, discarded materials from reactors

Halogenated Organic Wastes

Examples

- 241 Halogenated solvents and residues Spent halogenated solvents and residues such as perchloroethylene, halogenated still bottoms; residues and catalysts from trichloroethylene and carbon tetrachloride (dry cleaning solvents); halogenated hydrocarbon manufacturing or recycling processes.
- 242 Halogenated pesticides and herbicides 2,4-D, 2,4,5-T wastes, chlordane, mirex, silvex, pesticide solutions and residues.
- 243 Polychlorinated biphenyls (PCB) Askarel liquids such as Aroclor, Pydraul, Pyranol, Therminol FR, Inerteen, and other PCB contaminated materials.

Oily Wastes

Examples

- 251 Waste oils/sludges (petroleum based) Oil/water separator sludge; dissolved air flotation skimming; heavy oil tank drainage; slop oil and emulsions.
- 252 Waste crankcase oils and lubricants Collected service station waste oils; industrial lubricants; bulk waste oils.
- 253 Emulsified oils Soluble oils; waste cutting oils; machine oils.
- 254 Oily water/waste oil from waste transfer/processing sites Waste oil and oily water limited to classes 251, 252 and 253 that have been bulked/blended/processed at a waste transfer/processing site.

Miscellaneous Organic Wastes and Mixed Wastes

Examples

- 261 Pharmaceuticals Pharmaceutical and veterinary pharmaceutical wastes other than biologicals and vaccines; solid residues and liquids from veterinary arsenical compounds.
- 262 Detergents and soaps Laundry wastes.
- 263 Miscellaneous waste organic chemicals Waste organic chemicals including laboratory surplus or off-specification chemicals that are not otherwise specified in this table.
- 264 Photo processing wastes Photochemical solutions, washes and sludges.
- 265 Graphic arts wastes Adhesives; glues; miscellaneous washes; etch solutions.
- 266 Phenolic waste streams Cresylic acid; caustic phenolates; phenolic oils; creosote.
- 267 Organic acids Carboxylic or fatty acids; formic, acetic, propionic acid wastes; sulphamic and other organic acids that may be amenable to incineration.
- 268 Amines Waste ethanolamines; urea; tolidene; Flexzone waste; Monex waste.

269 Organic non-halogenated pesticide and herbicide wastes	Organophosphorus chemical wastes; arsenicals; wastes from MSMA and cacodylic acid.
270 Other specified organic sludges, slurries and solids	Tank bottoms from mixed organic waste bulking tanks at waste transfer sites; mixed sludges from waste screening/filtration at waste transfer/processing sites not otherwise specified in this table.

Processed Organic Wastes from Transfer Stations

Examples

281 Non-halogenated rich organics	Blended/bulked non-halogenated solvents, oils and other rich organics prepared at transfer/processing sites for incineration.
282 Non-halogenated lean organics	Blended/bulked aqueous wastes prepared at transfer/processing sites for incineration and contaminated with non-halogenated solvents, non-halogenated oils and other non-halogenated organics.

Plant and Animal Wastes

Examples

311 Organic tannery wastes	Fleshings; trimmings; vegetable tan liquors; Bate solutions.
312 Pathological wastes	Human anatomical waste; infected animal carcasses; other non-anatomical waste infected with communicable diseases; biologicals and vaccines.

Explosive Manufacturing Wastes

Examples

321 Wastes from the manufacture of explosives and detonation products	Wastewater treatment sludges; spent carbon; red/pink waters from TNT manufacturing; residues from lead base initiating compounds.
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Compressed Gases

Examples

331 Waste compressed gases, including cylinders	Methane (natural gas); nitrous or nitric oxide; propane; butane.
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Appendix 2 - Typical Moe Waste Classes *
(combination of 3 digit waste number and waste characteristic)

WASTE CLASSES	EXAMPLES
112C	Corrosive acidic wastes, e.g. battery acid
122C	Corrosive alkaline waste, e.g. alkaline cleaners
145H	Paint wastes and coatings, alkyd or oil based
145L	Paint wastes and coatings, latex or water based
146T	Solid waste with metal contaminants, e.g. some foundry sands, soils, metal dust
148A	Miscellaneous inorganic chemicals, e.g. lab packs
211H	Aromatic solvents, e.g. benzene, toluene, xylene
212H	Aliphatic solvents, e.g. acetone, methyl ethyl ketone (MEK)
212L	Ethylene glycol (antifreeze)
213I	Petroleum distillates, e.g. Varsol
221I	Light fuels, e.g. gasoline, kerosene, diesel
241H	Halogenated solvents, e.g. perchloroethylene (perc from dry cleaners)
243D	PCBs
251L	Oil and water mixtures/sludges (non-emulsified)
252L	Crankcase (engine) oil, lubricants, grease
252T	Crankcase (engine) oil, lubricants containing heavy metals, e.g. lead
253L	Emulsified oil and water, e.g. cutting oil
263A	Miscellaneous organic chemicals, e.g. lab packs
264L	Photo finishing waste, e.g. developer
264T	Photo finishing waste, e.g. fixer
312P	Pathological/biomedical/infectious

* For other wastes, please follow the instructions in this manual.

APPENDIX 3

North American Industry Classification System (NAICS)*

* Statistics Canada information is used with the permission of Statistics Canada. Users are forbidden to copy the data and disseminate them, in an original or modified form, for commercial purposes, without the expressed permission of Statistics Canada. Information on the availability of the wide range of data from Statistics Canada can be obtained from Statistics Canada's Regional Offices, its World Wide Web site at <http://www.statcan.ca>, and its toll-free access number 1-800-263-1136.

Appendix 3- North American Industry Classification System (NAICS)

11 Agriculture, Forestry, Fishing & Hunting

111 Crop Production

- 1111 Oilseed & Grain Farming
 - 11111 Soybean Farming
 - 111110 Soybean Farming
 - 11112 Oilseed (exc. Soybean) Farming
 - 111120 Oilseed (exc. Soybean) Farming
 - 11113 Dry Pea & Bean Farming
 - 111130 Dry Pea & Bean Farming
 - 11114 Wheat Farming
 - 111140 Wheat Farming
 - 11115 Corn Farming
 - 111150 Corn Farming
 - 11116 Rice Farming
 - 111160 Rice Farming
 - 11119 Other Grain Farming
 - 111190 Other Grain Farming
- 1112 Vegetable & Melon Farming
 - 11121 Vegetable & Melon Farming
 - 111211 Potato Farming
 - 111219 Other Vegetable (exc. Potato) & Melon Farming
- 1113 Fruit & Tree Nut Farming
 - 11131 Orange Groves
 - 111310 Orange Groves
 - 11132 Citrus (exc. Orange) Groves
 - 111320 Citrus (exc. Orange) Groves
 - 11133 Non-Citrus Fruit & Tree Nut Farming
 - 111330 Non-Citrus Fruit & Tree Nut Farming
- 1114 Greenhouse, Nursery & Floriculture Production
 - 11141 Food Crops Grown Under Cover
 - 111411 Mushroom Production
 - 111419 Other Food Crops Grown Under Cover
 - 11142 Nursery & Floriculture Production
 - 111421 Nursery & Tree Production
 - 111422 Floriculture Production
- 1119 Other Crop Farming
 - 11191 Tobacco Farming
 - 111910 Tobacco Farming
 - 11192 Cotton Farming
 - 111920 Cotton Farming
 - 11193 Sugar-Cane Farming
 - 111930 Sugar-Cane Farming
 - 11194 Hay Farming
 - 111940 Hay Farming
 - 11199 All Other Crop Farming
 - 111993 Fruit & Vegetable Combination Farming
 - 111999 All Other Misc. Crop Farming

112 Animal Production

- 1121 Cattle Ranching & Farming
 - 11211 Beef Cattle Ranching & Farming, inc. Feedlots
 - 112110 Beef Cattle Ranching & Farming, inc. Feedlots

- 11212 Dairy Cattle & Milk Production
 - 112120 Dairy Cattle & Milk Production
- 1122 Hog & Pig Farming
 - 11221 Hog & Pig Farming
 - 112210 Hog & Pig Farming
- 1123 Poultry & Egg Production
 - 11231 Chicken Egg Production
 - 112310 Chicken Egg Production
 - 11232 Broiler & Other Meat-Type Chicken Production
 - 112320 Broiler & Other Meat-Type Chicken Production
 - 11233 Turkey Production
 - 112330 Turkey Production
 - 11234 Poultry Hatcheries
 - 112340 Poultry Hatcheries
 - 11239 Other Poultry Production
 - 112390 Other Poultry Production
- 1124 Sheep & Goat Farming
 - 11241 Sheep Farming
 - 112410 Sheep Farming
 - 11242 Goat Farming
 - 112420 Goat Farming
- 1125 Animal Aquaculture
 - 11251 Animal Aquaculture
 - 112510 Animal Aquaculture
- 1129 Other Animal Production
 - 11291 Apiculture
 - 112910 Apiculture
 - 11292 Horse & Other Equine Production
 - 112920 Horse & Other Equine Production
 - 11293 Fur-Bearing Animal & Rabbit Production
 - 112930 Fur-Bearing Animal & Rabbit Production
 - 11299 All Other Animal Production
 - 112991 Livestock Combination Farming
 - 112999 All Other Misc. Animal Production

113 Forestry & Logging

- 1131 Timber Tract Operations
 - 11311 Timber Tract Operations
 - 113110 Timber Tract Operations
- 1132 Forest Nurseries & Gathering Forest Products
 - 11321 Forest Nurseries & Gathering Forest Products
 - 113210 Forest Nurseries & Gathering Forest Products
- 1133 Logging
 - 11331 Logging
 - 113311 Logging (exc. Contract)
 - 113312 Contract Logging

114 Fishing, Hunting & Trapping

- 1141 Fishing
 - 11411 Fishing
 - 114113 Salt Water Fishing
 - 114114 Inland Fishing

- 1142 Hunting & Trapping
 - 11421 Hunting & Trapping
 - 114210 Hunting & Trapping

115 Support Activities for Agriculture & Forestry

- 1151 Support Activities for Crop Production
 - 11511 Support Activities for Crop Production
 - 115110 Support Activities for Crop Production
- 1152 Support Activities for Animal Production
 - 11521 Support Activities for Animal Production
 - 115210 Support Activities for Animal Production
- 1153 Support Activities for Forestry
 - 11531 Support Activities for Forestry
 - 115310 Support Activities for Forestry

21 Mining & Oil & Gas Extraction

211 Oil & Gas Extraction

- 2111 Oil & Gas Extraction
 - 21111 Oil & Gas Extraction
 - 211113 Conventional Oil & Gas Extraction
 - 211114 Non-Conventional Oil Extraction

212 Mining (exc. Oil & Gas)

- 2121 Coal Mining
 - 21211 Coal Mining
 - 212114 Bituminous Coal Mining
 - 212115 Subbituminous Coal Mining
 - 212116 Lignite Coal Mining
- 2122 Metal Ore Mining
 - 21221 Iron Ore Mining
 - 212210 Iron Ore Mining
 - 21222 Gold & Silver Ore Mining
 - 212220 Gold & Silver Ore Mining
 - 21223 Copper, Nickel, Lead & Zinc Ore Mining
 - 212231 Lead-Zinc Ore Mining
 - 212232 Nickel-Copper Ore Mining
 - 212233 Copper-Zinc Ore Mining
 - 21229 Other Metal Ore Mining
 - 212291 Uranium Ore Mining
 - 212299 All Other Metal Ore Mining
- 2123 Non-Metallic Mineral Mining & Quarrying
 - 21231 Stone Mining & Quarrying
 - 212314 Granite Mining & Quarrying
 - 212315 Limestone Mining & Quarrying
 - 212316 Marble Mining & Quarrying
 - 212317 Sandstone Mining & Quarrying
 - 21232 Sand, Gravel, Clay, etc., Mining & Quarrying
 - 212323 Sand & Gravel Mining & Quarrying
 - 212326 Shale, Clay & Refractory Mining & Quarrying
 - 21239 Other Non-Metallic Mineral Mining & Quarrying
 - 212392 Diamond Mines
 - 212393 Salt Mines
 - 212394 Asbestos Mining
 - 212395 Gypsum Mining

- 212396 Potash Mining
- 212397 Peat Extraction
- 212398 All Other Non-Met. Mineral Mining & Quarrying

213 Support Act. - Mining & Oil & Gas Extraction

- 2131 Support Act. - Mining & Oil & Gas Extraction
 - 21311 Support Act. - Mining & Oil & Gas Extraction
 - 213111 Oil & Gas Contract Drilling
 - 213117 Contract Drilling (exc. Oil & Gas)
 - 213118 Services to Oil & Gas Extraction
 - 213119 Other Support Activities for Mining

22 Utilities

- 221 Utilities
 - 2211 Electricity Generation, Transmission & Dist.
 - 22111 Electric Power Generation
 - 221111 Hydro-Electric Power Generation
 - 221112 Fossil-Fuel Electric Power Generation
 - 221113 Nuclear Electric Power Generation
 - 221119 Other Electric Power Generation
 - 22112 Electric Power Transmission, Control & Dist.
 - 221121 Electric Bulk Power Transmission & Control
 - 221122 Electric Power Distribution
 - 2212 Natural Gas Distribution
 - 22121 Natural Gas Distribution
 - 221210 Natural Gas Distribution
- 2213 Water, Sewage & Other Systems
 - 22131 Water Supply & Irrigation Systems
 - 221310 Water Supply & Irrigation Systems
 - 22132 Sewage Treatment Facilities
 - 221320 Sewage Treatment Facilities
 - 22133 Steam & Air-Conditioning Supply
 - 221330 Steam & Air-Conditioning Supply

23 Construction

231 Prime Contracting

- 2311 Land Subdivision & Land Development
 - 23111 Land Subdivision & Land Development
 - 231110 Land Subdivision & Land Development
- 2312 Building Construction
 - 23121 Residential Building Construction
 - 231210 Residential Building Construction
 - 23122 Non-Residential Building Construction
 - 231220 Non-Residential Building Construction
- 2313 Engineering Construction
 - 23131 Highway, Street & Bridge Construction
 - 231310 Highway, Street & Bridge Construction
 - 23132 Water & Sewer Construction
 - 231320 Water & Sewer Construction
 - 23133 Oil & Gas Pipelines & Related Construction
 - 231330 Oil & Gas Pipelines & Related Construction
 - 23139 Other Engineering Construction

- 231390 Other Engineering Construction
- 2314 Construction Management
 - 23141 Construction Management
 - 231410 Construction Management

232 Trade Contracting

- 2321 Site Preparation Work
 - 23211 Site Preparation Work
 - 232110 Site Preparation Work
- 2322 Building Structure Work
 - 23221 Forming Work
 - 232210 Forming Work
 - 23222 Concrete Pouring & Finishing Work
 - 232220 Concrete Pouring & Finishing Work
 - 23223 Structural Steel & Precast Concrete Erection
 - 232230 Structural Steel & Precast Concrete Erection
 - 23224 Crane Rental Services
 - 232240 Crane Rental Services
 - 23225 Framing & Rough Carpentry Work
 - 232250 Framing & Rough Carpentry Work
 - 23229 Other Building Structure Work
 - 232290 Other Building Structure Work
- 2323 Building Exterior Finishing Work
 - 23231 Masonry Work
 - 232310 Masonry Work
 - 23232 Glass & Glazing Work
 - 232320 Glass & Glazing Work
 - 23233 Roofing and Related Work
 - 232330 Roofing and Related Work
 - 23234 Metallic & Other Siding Work
 - 232340 Metallic & Other Siding Work
 - 23239 Other Building Exterior Finishing Work
 - 232390 Other Building Exterior Finishing Work
- 2324 Building Interior Finishing Work
 - 23241 Drywall and Plaster Work
 - 232410 Drywall and Plaster Work
 - 23242 Terrazzo & Tile Work
 - 232420 Terrazzo & Tile Work
 - 23243 Carpet & Resilient Flooring Work
 - 232430 Carpet & Resilient Flooring Work
 - 23244 Insulation Work
 - 232440 Insulation Work
 - 23245 Building Painting & Paperhanging Work
 - 232450 Building Painting & Paperhanging Work
 - 23246 Finish Carpentry & Wood Flooring Work
 - 232460 Finish Carpentry & Wood Flooring Work
 - 23249 Other Building Interior Finishing Work
 - 232490 Other Building Interior Finishing Work
- 2325 Building Equipment Installation
 - 23251 Electrical Work
 - 232510 Electrical Work
 - 23252 Plumbing, Heating & AC Installation
 - 232520 Plumbing, Heating & AC Installation
 - 23253 Automatic Sprinkler System Installation
 - 232530 Automatic Sprinkler System Installation

- 23254 Commercial Refrigeration Installation
 - 232540 Commercial Refrigeration Installation
 - 23255 Elevator & Escalator Installation
 - 232550 Elevator & Escalator Installation
 - 23259 Other Building Equipment Installation
 - 232590 Other Building Equipment Installation
- ### **2329 Other Special Trade Contracting**
- 23291 Fencing & Interlocking Stone Contracting
 - 232910 Fencing & Interlocking Stone Contracting
 - 23292 Residential & Commercial Paving Contracting
 - 232920 Residential & Commercial Paving Contracting
 - 23299 All Other Special Trade Contracting
 - 232990 All Other Special Trade Contracting

31-33 Manufacturing

311 Food Mfg.

- 3111 Animal Food Mfg.
 - 31111 Animal Food Mfg.
 - 311111 Dog & Cat Food Mfg.
 - 311119 Other Animal Food Mfg.
- 3112 Grain & Oilseed Milling
 - 31121 Flour Milling & Malt Mfg.
 - 311211 Flour Milling
 - 311214 Rice Milling & Malt Mfg.
 - 31122 Starch & Vegetable Fat & Oil Mfg.
 - 311221 Wet Corn Milling
 - 311224 Oilseed Processing
 - 311225 Fat & Oil Refining & Blending
 - 31123 Breakfast Cereal Mfg.
 - 311230 Breakfast Cereal Mfg.
- 3113 Sugar & Confectionery Product Mfg.
 - 31131 Sugar Mfg.
 - 311310 Sugar Mfg.
 - 31132 Chocolate & Confectionery Mfg. from Beans
 - 311320 Chocolate & Confectionery Mfg. from Beans
 - 31133 Confectionery Mfg. from Purchased Chocolate
 - 311330 Confectionery Mfg. from Purchased Chocolate
 - 31134 Non-Chocolate Confectionery Mfg.
 - 311340 Non-Chocolate Confectionery Mfg.
- 3114 Fruit & Veg. Preserving & Specialty Food Mfg.
 - 31141 Frozen Food Mfg.
 - 311410 Frozen Food Mfg.
 - 31142 Fruit & Vegetable Canning, Pickling & Drying
 - 311420 Fruit & Vegetable Canning, Pickling & Drying
- 3115 Dairy Product Mfg.
 - 31151 Dairy Product (except Frozen) Mfg.
 - 311511 Fluid Milk Mfg.
 - 311515 Dairy Product (except Frozen & Fluid) Mfg.
 - 31152 Ice Cream & Frozen Dessert Mfg.
 - 311520 Ice Cream & Frozen Dessert Mfg.
- 3116 Meat Product Mfg.
 - 31161 Animal Slaughtering & Processing
 - 311611 Animal (except Poultry) Slaughtering
 - 311614 Rendering & Meat Processing from Carcasses

- 311615 Poultry Processing
- 3117 Seafood Product Preparation & Packaging
 - 31171 Seafood Product Preparation & Packaging
 - 311710 Seafood Product Preparation & Packaging
- 3118 Bakeries & Tortilla Mfg.
 - 31181 Bread & Bakery Product Mfg.
 - 311811 Retail Bakeries
 - 311814 Commercial Bakeries & Frozen Product Mfg.
 - 31182 Cookie, Cracker & Pasta Mfg.
 - 311821 Cookie & Cracker Mfg.
 - 311822 Flour Mixes & Dough Mfg. from Purchased Flour
 - 311823 Dry Pasta Mfg.
 - 31183 Tortilla Mfg.
 - 311830 Tortilla Mfg.
- 3119 Other Food Mfg.
 - 31191 Snack Food Mfg.
 - 311911 Roasted Nut & Peanut Butter Mfg.
 - 311919 Other Snack Food Mfg.
 - 31192 Coffee & Tea Mfg.
 - 311920 Coffee & Tea Mfg.
 - 31193 Flavouring Syrup & Concentrate Mfg.
 - 311930 Flavouring Syrup & Concentrate Mfg.
 - 31194 Seasoning & Dressing Mfg.
 - 311940 Seasoning & Dressing Mfg.
 - 31199 All Other Food Mfg.
 - 311990 All Other Food Mfg.

312 Beverage & Tobacco Product Mfg.

- 3121 Beverage Mfg.
 - 31211 Soft Drink & Ice Mfg.
 - 312110 Soft Drink & Ice Mfg.
 - 31212 Breweries
 - 312120 Breweries
 - 31213 Wineries
 - 312130 Wineries
 - 31214 Distilleries
 - 312140 Distilleries
- 3122 Tobacco Mfg.
 - 31221 Tobacco Stemming & Redrying
 - 312210 Tobacco Stemming & Redrying
 - 31222 Tobacco Product Mfg.
 - 312220 Tobacco Product Mfg.

313 Textile Mills

- 3131 Fibre, Yarn & Thread Mills
 - 31311 Fibre, Yarn & Thread Mills
 - 313110 Fibre, Yarn & Thread Mills
- 3132 Fabric Mills
 - 31321 Broad-Woven Fabric Mills
 - 313210 Broad-Woven Fabric Mills
 - 31322 Narrow Fabric Mills & Schiffli Embroidery
 - 313220 Narrow Fabric Mills & Schiffli Embroidery
 - 31323 Nonwoven Fabric Mills
 - 313230 Nonwoven Fabric Mills

- 31324 Knit Fabric Mills
 - 313240 Knit Fabric Mills
- 3133 Textile & Fabric Finishing & Fabric Coating
 - 31331 Textile & Fabric Finishing
 - 313310 Textile & Fabric Finishing
 - 31332 Fabric Coating
 - 313320 Fabric Coating

314 Textile Product Mills

- 3141 Textile Furnishings Mills
 - 31411 Carpet & Rug Mills
 - 314110 Carpet & Rug Mills
 - 31412 Curtain & Linen Mills
 - 314120 Curtain & Linen Mills
- 3149 Other Textile Product Mills
 - 31491 Textile Bag & Canvas Mills
 - 314910 Textile Bag & Canvas Mills
 - 31499 All Other Textile Product Mills
 - 314990 All Other Textile Product Mills

315 Clothing Mfg.

- 3151 Clothing Knitting Mills
 - 31511 Hosiery & Sock Mills
 - 315110 Hosiery & Sock Mills
 - 31519 Other Clothing Knitting Mills
 - 315190 Other Clothing Knitting Mills
- 3152 Cut & Sew Clothing Mfg.
 - 31521 Cut & Sew Clothing Contracting
 - 315210 Cut & Sew Clothing Contracting
 - 31522 Men's & Boys' Cut & Sew Clothing Mfg.
 - 315221 Men's & Boys' Underwear & Nightwear Mfg.
 - 315222 Men's & Boys' Suit, Coat & Overcoat Mfg.
 - 315226 Men's & Boys' Cut & Sew Shirt Mfg.
 - 315227 Men's & Boys' Trouser, Slack & Jean Mfg.
 - 315229 Other Men's & Boys' Cut & Sew Clothing Mfg.
 - 31523 Women's & Girls' Cut & Sew Clothing Mfg.
 - 315231 Women's & Girls' Lingerie & Nightwear Mfg.
 - 315232 Women's & Girls' Blouse & Shirt Mfg.
 - 315233 Women's & Girls' Cut & Sew Dress Mfg.
 - 315234 Women's & Girls' Suit, Coat, Jacket, Skirt Mfg.
 - 315239 Other Women's & Girls' Cut & Sew Clothing Mfg.
 - 31529 Other Cut & Sew Clothing Mfg.
 - 315291 Infants' Cut & Sew Clothing Mfg.
 - 315292 Fur & Leather Clothing Mfg.
 - 315299 All Other Cut & Sew Clothing Mfg.
- 3159 Clothing Accessories & Other Clothing Mfg.
 - 31599 Clothing Accessories & Other Clothing Mfg.
 - 315990 Clothing Accessories & Other Clothing Mfg.

316 Leather & Allied Product Mfg.

- 3161 Leather & Hide Tanning & Finishing
 - 31611 Leather & Hide Tanning & Finishing
 - 316110 Leather & Hide Tanning & Finishing
- 3162 Footwear Mfg.

31621 Footwear Mfg.

316210 Footwear Mfg.

3169 Other Leather & Allied Product Mfg.

31699 Other Leather & Allied Product Mfg.

316990 Other Leather & Allied Product Mfg.

321 Wood Product Mfg.

3211 Sawmills & Wood Preservation

32111 Sawmills & Wood Preservation

321111 Sawmills (except Shingle & Shake Mills)

321112 Shingle & Shake Mills

321114 Wood Preservation

3212 Veneer, Plywood & Engineered Wood Product Mfg

32121 Veneer, Plywood & Engineered Wood Product Mfg

321211 Hardwood Veneer & Plywood Mills

321212 Softwood Veneer & Plywood Mills

321215 Structural Wood Product Mfg.

321216 Particle Board & Fibreboard Mills

321217 Waferboard Mills

3219 Other Wood Product Mfg.

32191 Millwork

321911 Wood Window & Door Mfg.

321919 Other Millwork

32192 Wood Container & Pallet Mfg.

321920 Wood Container & Pallet Mfg.

32199 All Other Wood Product Mfg.

321991 Manufactured (Mobile) Home Mfg.

321992 Prefabricated Wood Building Mfg.

321999 All Other Misc. Wood Product Mfg.

322 Paper Mfg.

3221 Pulp, Paper & Paperboard Mills

32211 Pulp Mills

322111 Mechanical Pulp Mills

322112 Chemical Pulp Mills

32212 Paper Mills

322121 Paper (except Newsprint) Mills

322122 Newsprint Mills

32213 Paperboard Mills

322130 Paperboard Mills

3222 Converted Paper Product Mfg.

32221 Paperboard Container Mfg.

322211 Corrugated & Solid Fibre Box Mfg.

322212 Folding Paperboard Box Mfg.

322219 Other Paperboard Container Mfg.

32222 Paper Bag & Coated & Treated Paper Mfg.

322220 Paper Bag & Coated & Treated Paper Mfg.

32223 Stationery Product Mfg.

322230 Stationery Product Mfg.

32229 Other Converted Paper Product Mfg.

322291 Sanitary Paper Product Mfg.

322299 All Other Converted Paper Product Mfg.

323 Printing & Related Support Activities

3231 Printing & Related Support Activities

32311 Printing

323113 Commercial Screen Printing

323114 Quick Printing

323115 Digital Printing

323116 Manifold Business Forms Printing

323119 Other Printing

32312 Support Activities for Printing

323120 Support Activities for Printing

324 Petroleum & Coal Products Mfg.

3241 Petroleum & Coal Products Mfg.

32411 Petroleum Refineries

324110 Petroleum Refineries

32412 Asphalt Product Mfg.

324121 Asphalt Paving Mixture & Block Mfg.

324122 Asphalt Shingle & Coating Material Mfg.

32419 Other Petroleum & Coal Products Mfg.

324190 Other Petroleum & Coal Products Mfg.

325 Chemical Mfg.

3251 Basic Chemical Mfg.

32511 Petrochemical Mfg.

325110 Petrochemical Mfg.

32512 Industrial Gas Mfg.

325120 Industrial Gas Mfg.

32513 Synthetic Dye & Pigment Mfg.

325130 Synthetic Dye & Pigment Mfg.

32518 Other Basic Inorganic Chemical Mfg.

325181 Alkali & Chlorine Mfg.

325189 All Other Basic Inorganic Chemical Mfg.

32519 Other Basic Organic Chemical Mfg.

325190 Other Basic Organic Chemical Mfg.

3252 Resin, Synth. Rubber, & Fibre & Filament Mfg.

32521 Resin & Synthetic Rubber Mfg.

325210 Resin & Synthetic Rubber Mfg.

32522 Artificial & Synthetic Fibres & Filaments Mfg

325220 Artificial & Synthetic Fibres & Filaments Mfg

3253 Pesticide, Fertilizer & Other Agr. Chem. Mfg.

32531 Fertilizer Mfg.

325313 Chemical Fertilizer (except Potash) Mfg.

325314 Mixed Fertilizer Mfg.

32532 Pesticide & Other Agricultural Chemical Mfg.

325320 Pesticide & Other Agricultural Chemical Mfg.

3254 Pharmaceutical & Medicine Mfg.

32541 Pharmaceutical & Medicine Mfg.

325410 Pharmaceutical & Medicine Mfg.

3255 Paint, Coating & Adhesive Mfg.

32551 Paint & Coating Mfg.

325510 Paint & Coating Mfg.

32552 Adhesive Mfg.

325520 Adhesive Mfg.

3256 Soap, Cleaning Compound & Toilet Prep. Mfg.

32561 Soap & Cleaning Compound Mfg.

- 325610 Soap & Cleaning Compound Mfg.
- 32562 Toilet Preparation Mfg.
- 325620 Toilet Preparation Mfg.
- 3259 Other Chemical Product Mfg.
- 32591 Printing Ink Mfg.
- 325910 Printing Ink Mfg.
- 32592 Explosives Mfg.
- 325920 Explosives Mfg.
- 32599 All Other Chemical Product Mfg.
- 325991 Custom Compounding of Purchased Resins
- 325999 All Other Misc. Chemical Product Mfg.

326 Plastics & Rubber Products Mfg.

- 3261 Plastic Product Mfg.
- 32611 Unsupported Plastic Film, Sheet & Bag Mfg.
- 326111 Unsupported Plastic Bag Mfg.
- 326114 Unsupported Plastic Film & Sheet Mfg.
- 32612 Plastic Pipe & Unsupported Profile Shape Mfg
- 326121 Unsupported Plastic Profile Shape Mfg.
- 326122 Plastic Pipe & Pipe Fitting Mfg.
- 32613 Laminated Plastic Plate, Sheet & Shape Mfg.
- 326130 Laminated Plastic Plate, Sheet & Shape Mfg.
- 32614 Polystyrene Foam Product Mfg.
- 326140 Polystyrene Foam Product Mfg.
- 32615 Urethane & Miscellaneous Foam Product Mfg.
- 326150 Urethane & Miscellaneous Foam Product Mfg.
- 32616 Plastic Bottle Mfg.
- 326160 Plastic Bottle Mfg.
- 32619 Other Plastic Product Mfg.
- 326191 Plastic Plumbing Fixture Mfg.
- 326193 Motor Vehicle Plastic Parts Mfg.
- 326198 All Other Plastic Product Mfg.
- 3262 Rubber Product Mfg.
- 32621 Tire Mfg.
- 326210 Tire Mfg.
- 32622 Rubber & Plastic Hose & Belting Mfg.
- 326220 Rubber & Plastic Hose & Belting Mfg.
- 32629 Other Rubber Product Mfg.
- 326290 Other Rubber Product Mfg.

327 Non-Metallic Mineral Product Mfg.

- 3271 Clay Product & Refractory Mfg.
- 32711 Pottery, Ceramics & Plumbing Fixture Mfg.
- 327110 Pottery, Ceramics & Plumbing Fixture Mfg.
- 32712 Clay Building Material & Refractory Mfg.
- 327120 Clay Building Material & Refractory Mfg.
- 3272 Glass & Glass Product Mfg.
- 32721 Glass & Glass Product Mfg.
- 327214 Glass Mfg.
- 327215 Glass Product Mfg. from Purchased Glass
- 3273 Cement & Concrete Product Mfg.
- 32731 Cement Mfg.
- 327310 Cement Mfg.
- 32732 Ready-Mix Concrete Mfg.
- 327320 Ready-Mix Concrete Mfg.

- 32733 Concrete Pipe, Brick & Block Mfg.
- 327330 Concrete Pipe, Brick & Block Mfg.
- 32739 Other Concrete Product Mfg.
- 327390 Other Concrete Product Mfg.
- 3274 Lime & Gypsum Product Mfg.
- 32741 Lime Mfg.
- 327410 Lime Mfg.
- 32742 Gypsum Product Mfg.
- 327420 Gypsum Product Mfg.
- 3279 Other Non-Metallic Mineral Product Mfg.
- 32791 Abrasive Product Mfg.
- 327910 Abrasive Product Mfg.
- 32799 All Other Non-Metallic Mineral Product Mfg.
- 327990 All Other Non-Metallic Mineral Product Mfg.

331 Primary Metal Mfg.

- 3311 Iron & Steel Mills & Ferro-Alloy Mfg.
- 33111 Iron & Steel Mills & Ferro-Alloy Mfg.
- 331110 Iron & Steel Mills & Ferro-Alloy Mfg.
- 3312 Steel Product Mfg. from Purchased Steel
- 33121 Iron & Steel Pipes & Tubes Mfg.
- 331210 Iron & Steel Pipes & Tubes Mfg.
- 33122 Rolling & Drawing of Purchased Steel
- 331221 Cold-Rolled Steel Shape Mfg.
- 331222 Steel Wire Drawing
- 3313 Alumina & Aluminum Production & Processing
- 33131 Alumina & Aluminum Production & Processing
- 331313 Primary Production of Alumina & Aluminum
- 331317 Alum. Rolling, Drawing, Extruding & Alloying
- 3314 Non-Ferrous (exc. Al) Production & Processing
- 33141 Non-Ferrous (except Al) Smelting & Refining
- 331410 Non-Ferrous (except Al) Smelting & Refining
- 33142 Copper Rolling, Drawing, Extruding & Alloying
- 331420 Copper Rolling, Drawing, Extruding & Alloying
- 33149 Non-Ferrous (except Cu & Al) Secondary Proc.
- 331490 Non-Ferrous (except Cu & Al) Secondary Proc.
- 3315 Foundries
- 33151 Ferrous Metal Foundries
- 331511 Iron Foundries
- 331514 Steel Foundries
- 33152 Non-Ferrous Metal Foundries
- 331523 Non-Ferrous Die-Casting Foundries
- 331529 Non-Ferrous Foundries (except Die-Casting)

332 Fabricated Metal Product Mfg.

- 3321 Forging & Stamping
- 33211 Forging & Stamping
- 332113 Forging
- 332118 Stamping
- 3322 Cutlery & Hand Tool Mfg.
- 33221 Cutlery & Hand Tool Mfg.
- 332210 Cutlery & Hand Tool Mfg.
- 3323 Architectural & Structural Metals Mfg.

- 33231 Plate Work & Fabricated Structural Prod. Mfg.
 - 332311 Prefabricated Metal Building & Component Mfg.
 - 332314 Concrete Reinforcing Bar Mfg.
 - 332319 Other Plate Work & Structural Product Mfg.
- 33232 Ornamental & Architectural Metal Products Mfg.
 - 332321 Metal Window & Door Mfg.
 - 332329 Other Ornamental & Architec. Metal Prod. Mfg.
- 3324 Boiler, Tank & Shipping Container Mfg.
 - 33241 Power Boiler & Heat Exchanger Mfg.
 - 332410 Power Boiler & Heat Exchanger Mfg.
 - 33242 Metal Tank (Heavy Gauge) Mfg.
 - 332420 Metal Tank (Heavy Gauge) Mfg.
 - 33243 Metal Can, Box & Other Metal Container Mfg.
 - 332431 Metal Can Mfg.
 - 332439 Other Metal Container Mfg.
- 3325 Hardware Mfg.
 - 33251 Hardware Mfg.
 - 332510 Hardware Mfg.
- 3326 Spring & Wire Product Mfg.
 - 33261 Spring & Wire Product Mfg.
 - 332611 Spring (Heavy Gauge) Mfg.
 - 332619 Other Fabricated Wire Product Mfg.
- 3327 Machine Shops, Turned Product & Related Mfg.
 - 33271 Machine Shops
 - 332710 Machine Shops
 - 33272 Turned Product & Screw, Nut & Bolt Mfg.
 - 332720 Turned Product & Screw, Nut & Bolt Mfg.
- 3328 Coating, Engraving & Heat Treating Activities
 - 33281 Coating, Engraving & Heat Treating Activities
 - 332810 Coating, Engraving & Heat Treating Activities
- 3329 Other Fabricated Metal Product Mfg.
 - 33291 Metal Valve Mfg.
 - 332910 Metal Valve Mfg.
 - 33299 All Other Fabricated Metal Product Mfg.
 - 332991 Ball & Roller Bearing Mfg.
 - 332999 All Other Misc. Fabricated Metal Product Mfg.

333 Machinery Mfg.

- 3331 Agr., Construction & Mining Machinery Mfg.
 - 33311 Agricultural Implement Mfg.
 - 333110 Agricultural Implement Mfg.
 - 33312 Construction Machinery Mfg.
 - 333120 Construction Machinery Mfg.
 - 33313 Mining & Oil & Gas Field Machinery Mfg.
 - 333130 Mining & Oil & Gas Field Machinery Mfg.
- 3332 Industrial Machinery Mfg.
 - 33321 Sawmill & Woodworking Machinery Mfg.
 - 333210 Sawmill & Woodworking Machinery Mfg.
 - 33322 Rubber & Plastics Industry Machinery Mfg.
 - 333220 Rubber & Plastics Industry Machinery Mfg.
 - 33329 Other Industrial Machinery Mfg.
 - 333291 Paper Industry Machinery Mfg.
 - 333299 All Other Industrial Machinery Mfg.
- 3333 Commercial & Service Industry Machinery Mfg.

- 33331 Commercial & Service Industry Machinery Mfg.
 - 333310 Commercial & Service Industry Machinery Mfg.
- 3334 Ventilation, Heating, AC & Refrig. Equip. Mfg.
 - 33341 Ventilation, Heating, AC & Refrig. Equip. Mfg.
 - 333413 Fan & Blower & Air Purification Equip. Mfg.
 - 333416 Heating & Commercial Refrigeration Equip. Mfg.
- 3335 Metalworking Machinery Mfg.
 - 33351 Metalworking Machinery Mfg.
 - 333511 Industrial Mould Mfg.
 - 333519 Other Metalworking Machinery Mfg.
- 3336 Engine, Turbine & Power Transmission Mfg.
 - 33361 Engine, Turbine & Power Transmission Mfg.
 - 333611 Turbine & Turbine Generator Set Unit Mfg.
 - 333619 Other Engine & Power Transmission Equip. Mfg.
- 3339 Other General-Purpose Machinery Mfg.
 - 33391 Pump & Compressor Mfg.
 - 333910 Pump & Compressor Mfg.
 - 33392 Material Handling Equipment Mfg.
 - 333920 Material Handling Equipment Mfg.
 - 33399 All Other General-Purpose Machinery Mfg.
 - 333990 All Other General-Purpose Machinery Mfg.

334 Computer & Electronic Product Mfg.

- 3341 Computer & Peripheral Equipment Mfg.
 - 33411 Computer & Peripheral Equipment Mfg.
 - 334110 Computer & Peripheral Equipment Mfg.
- 3342 Communications Equipment Mfg.
 - 33421 Telephone Apparatus Mfg.
 - 334210 Telephone Apparatus Mfg.
 - 33422 Broadcasting & Wireless Communication Mfg.
 - 334220 Broadcasting & Wireless Communication Mfg.
 - 33429 Other Communications Equipment Mfg.
 - 334290 Other Communications Equipment Mfg.
- 3343 Audio & Video Equipment Mfg.
 - 33431 Audio & Video Equipment Mfg.
 - 334310 Audio & Video Equipment Mfg.
- 3344 Semiconductor & Electronic Component Mfg.
 - 33441 Semiconductor & Electronic Component Mfg.
 - 334410 Semiconductor & Electronic Component Mfg.
- 3345 Instruments Mfg.
 - 33451 Instruments Mfg.
 - 334511 Navigational & Guidance Instruments Mfg.
 - 334512 Measuring, Medical & Controlling Devices Mfg.
- 3346 Mfg. & Reproducing Magnetic & Optical Media
 - 33461 Mfg. & Reproducing Magnetic & Optical Media
 - 334610 Mfg. & Reproducing Magnetic & Optical Media

335 Electric Equipment, Appliance & Component Mfg

- 3351 Electric Lighting Equipment Mfg.
 - 33511 Electric Lamp Bulb & Parts Mfg.
 - 335110 Electric Lamp Bulb & Parts Mfg.

- 33512 Lighting Fixture Mfg.
- 335120 Lighting Fixture Mfg.
- 3352 Household Appliance Mfg.
- 33521 Small Electrical Appliance Mfg.
- 335210 Small Electrical Appliance Mfg.
- 33522 Major Appliance Mfg.
- 335223 Major Kitchen Appliance Mfg.
- 335229 Other Major Appliance Mfg.
- 3353 Electrical Equipment Mfg.
- 33531 Electrical Equipment Mfg.
- 335311 Transformer (except Electronic) Mfg.
- 335312 Motor & Generator Mfg.
- 335315 Switchgear, Relay & Industrial Control Mfg.
- 3359 Other Electrical Equipment & Component Mfg.
- 33591 Battery Mfg.
- 335910 Battery Mfg.
- 33592 Communication & Energy Wire & Cable Mfg.
- 335920 Communication & Energy Wire & Cable Mfg.
- 33593 Wiring Device Mfg.
- 335930 Wiring Device Mfg.
- 33599 All Other Electrical Equip. & Component Mfg.
- 335990 All Other Electrical Equip. & Component Mfg.

336 Transportation Equipment Mfg.

- 3361 Motor Vehicle Mfg.
- 33611 Automobile & Light-Duty Motor Vehicle Mfg.
- 336110 Automobile & Light-Duty Motor Vehicle Mfg.
- 33612 Heavy-Duty Truck Mfg.
- 336120 Heavy-Duty Truck Mfg.
- 3362 Motor Vehicle Body & Trailer Mfg.
- 33621 Motor Vehicle Body & Trailer Mfg.
- 336211 Motor Vehicle Body Mfg.
- 336212 Truck Trailer Mfg.
- 336215 Motor Home, Travel Trailer and Camper Mfg.
- 3363 Motor Vehicle Parts Mfg.
- 33631 Motor Vehicle Gasoline Engine & Parts Mfg.
- 336310 Motor Vehicle Gasoline Engine & Parts Mfg.
- 33632 MV Electrical & Electronic Equipment Mfg.
- 336320 MV Electrical & Electronic Equipment Mfg.
- 33633 MV Steering & Suspension Components Mfg.
- 336330 MV Steering & Suspension Components Mfg.
- 33634 Motor Vehicle Brake System Mfg.
- 336340 Motor Vehicle Brake System Mfg.
- 33635 MV Transmission & Power Train Parts Mfg.
- 336350 MV Transmission & Power Train Parts Mfg.
- 33636 Motor Vehicle Seating and Interior Trim Mfg.
- 336360 Motor Vehicle Seating and Interior Trim Mfg.
- 33637 Motor Vehicle Metal Stamping
- 336370 Motor Vehicle Metal Stamping
- 33639 Other Motor Vehicle Parts Mfg.
- 336390 Other Motor Vehicle Parts Mfg.
- 3364 Aerospace Product & Parts Mfg.
- 33641 Aerospace Product & Parts Mfg.
- 336410 Aerospace Product & Parts Mfg.
- 3365 Railroad Rolling Stock Mfg.

- 33651 Railroad Rolling Stock Mfg.
- 336510 Railroad Rolling Stock Mfg.
- 3366 Ship & Boat Building
- 33661 Ship & Boat Building
- 336611 Ship Building & Repairing
- 336612 Boat Building
- 3369 Other Transportation Equipment Mfg.
- 33699 Other Transportation Equipment Mfg.
- 336990 Other Transportation Equipment Mfg.

337 Furniture & Related Product Mfg.

- 3371 Household & Inst. Furniture & Cabinet Mfg.
- 33711 Wood Kitchen Cabinet & Counter Top Mfg.
- 337110 Wood Kitchen Cabinet & Counter Top Mfg.
- 33712 Household & Institutional Furniture Mfg.
- 337121 Upholstered Household Furniture Mfg.
- 337123 Other Wood Household Furniture Mfg.
- 337126 All Other Household Furniture Mfg.
- 337127 Institutional Furniture Mfg.
- 3372 Office Furniture (including Fixtures) Mfg.
- 33721 Office Furniture (including Fixtures) Mfg.
- 337213 Wood Office Furniture Mfg.
- 337214 Office Furniture (except Wood) Mfg.
- 337215 Showcase, Partition, Shelving & Locker Mfg.
- 3379 Other Furniture-Related Product Mfg.
- 33791 Mattress Mfg.
- 337910 Mattress Mfg.
- 33792 Blind & Shade Mfg.
- 337920 Blind & Shade Mfg.

339 Miscellaneous Mfg.

- 3391 Medical Equipment & Supplies Mfg.
- 33911 Medical Equipment & Supplies Mfg.
- 339110 Medical Equipment & Supplies Mfg.
- 3399 Other Miscellaneous Mfg.
- 33991 Jewellery & Silverware Mfg.
- 339910 Jewellery & Silverware Mfg.
- 33992 Sporting & Athletic Goods Mfg.
- 339920 Sporting & Athletic Goods Mfg.
- 33993 Doll, Toy & Game Mfg.
- 339930 Doll, Toy & Game Mfg.
- 33994 Office Supplies (except Paper) Mfg.
- 339940 Office Supplies (except Paper) Mfg.
- 33995 Sign Mfg.
- 339950 Sign Mfg.
- 33999 All Other Miscellaneous Mfg.
- 339990 All Other Miscellaneous Mfg.

41 Wholesale Trade

411 Farm Product Whl.

- 4111 Farm Product Whl.
- 41111 Live Animal Whl.
- 411110 Live Animal Whl.
- 41112 Oilseed & Grain Whl.

- 411120 Oilseed & Grain Whl.
- 41113 Nursery Stock & Plant Whl.
- 411130 Nursery Stock & Plant Whl.
- 41119 Other Farm Product Whl.
- 411190 Other Farm Product Whl.

412 Petroleum Product Whl.

- 4121 Petroleum Product Whl.
- 41211 Petroleum Product Whl.
- 412110 Petroleum Product Whl.

413 Food, Beverage & Tobacco Whl.

- 4131 Food Whl.
- 41311 General-Line Food Whl.
- 413110 General-Line Food Whl.
- 41312 Dairy & Milk Products Whl.
- 413120 Dairy & Milk Products Whl.
- 41313 Poultry & Egg Whl.
- 413130 Poultry & Egg Whl.
- 41314 Fish & Seafood Product Whl.
- 413140 Fish & Seafood Product Whl.
- 41315 Fresh Fruit & Vegetable Whl.
- 413150 Fresh Fruit & Vegetable Whl.
- 41316 Red Meat & Meat Product Whl.
- 413160 Red Meat & Meat Product Whl.
- 41319 Other Specialty-Line Food Whl.
- 413190 Other Specialty-Line Food Whl.
- 4132 Beverage Whl.
- 41321 Non-Alcoholic Beverage Whl.
- 413210 Non-Alcoholic Beverage Whl.
- 41322 Alcoholic Beverage Whl.
- 413220 Alcoholic Beverage Whl.
- 4133 Cigarette & Tobacco Product Whl.
- 41331 Cigarette & Tobacco Product Whl.
- 413310 Cigarette & Tobacco Product Whl.

414 Personal & Household Goods Whl.

- 4141 Textile, Clothing & Footwear Whl.
- 41411 Clothing & Clothing Accessories Whl.
- 414110 Clothing & Clothing Accessories Whl.
- 41412 Footwear Whl.
- 414120 Footwear Whl.
- 41413 Piece Goods, Notions & Other Dry Goods Whl.
- 414130 Piece Goods, Notions & Other Dry Goods Whl.
- 4142 Home Entertainment Equip & Hhld Appliance Whl
- 41421 Home Entertainment Equipment Whl.
- 414210 Home Entertainment Equipment Whl.
- 41422 Household Appliance Whl.
- 414220 Household Appliance Whl.
- 4143 Home Furnishings Whl.
- 41431 China, Glassware, Crockery & Pottery Whl.
- 414310 China, Glassware, Crockery & Pottery Whl.
- 41432 Floor Covering Whl.
- 414320 Floor Covering Whl.
- 41433 Linen & Other Textile Furnishings Whl.

- 414330 Linen & Other Textile Furnishings Whl.
- 41439 Other Home Furnishings Whl.
- 414390 Other Home Furnishings Whl.
- 4144 Personal Goods Whl.
- 41441 Jewellery & Watch Whl.
- 414410 Jewellery & Watch Whl.
- 41442 Book, Periodical & Newspaper Whl.
- 414420 Book, Periodical & Newspaper Whl.
- 41443 Photographic Equipment & Supplies Whl.
- 414430 Photographic Equipment & Supplies Whl.
- 41444 Sound Recording Wholesalers
- 414440 Sound Recording Wholesalers
- 41445 Video Cassette Wholesalers
- 414450 Video Cassette Wholesalers
- 41446 Toy & Hobby Goods Whl.
- 414460 Toy & Hobby Goods Whl.
- 41447 Amusement & Sporting Goods Whl.
- 414470 Amusement & Sporting Goods Whl.
- 4145 Pharmaceuticals, Toiletries & Related Whl.
- 41451 Pharmaceuticals & Pharmacy Supplies Whl.
- 414510 Pharmaceuticals & Pharmacy Supplies Whl.
- 41452 Toiletries, Cosmetics & Sundries Whl.
- 414520 Toiletries, Cosmetics & Sundries Whl.

415 Motor Vehicle & Parts Whl.

- 4151 Motor Vehicle Whl.
- 41511 New & Used Automobile & Light-Duty Truck Whl
- 415110 New & Used Automobile & Light-Duty Truck Whl.
- 41512 Truck, Truck Tractor & Bus Whl.
- 415120 Truck, Truck Tractor & Bus Whl.
- 41519 Recreational & Other Motor Vehicles Whl.
- 415190 Recreational & Other Motor Vehicles Whl.
- 4152 New Motor Vehicle Parts & Accessories Whl.
- 41521 Tire Whl.
- 415210 Tire Whl.
- 41529 Other New Motor Vehicle Parts & Access. Whl.
- 415290 Other New Motor Vehicle Parts & Access. Whl.
- 4153 Used Motor Vehicle Parts & Accessories Whl.
- 41531 Used Motor Vehicle Parts & Accessories Whl.
- 415310 Used Motor Vehicle Parts & Accessories Whl.

416 Building Material & Supplies Whl.

- 4161 Electrical, Plumbing, Heating & AC Equip. Whl
- 41611 Electrical Wiring & Construction Supplies Whl
- 416110 Electrical Wiring & Construction Supplies Whl
- 41612 Plumbing, Heating & AC Equip. & Supplies Whl.
- 416120 Plumbing, Heating & AC Equip. & Supplies Whl.
- 4162 Metal Service Centres
- 41621 Metal Service Centres
- 416210 Metal Service Centres
- 4163 Lumber & Other Building Supplies Whl.
- 41631 General-Line Building Supplies Whl.
- 416310 General-Line Building Supplies Whl.

- 41632 Lumber, Plywood & Millwork Whl.
- 416320 Lumber, Plywood & Millwork Whl.
- 41633 Hardware Whl.
- 416330 Hardware Whl.
- 41634 Paint, Glass & Wallpaper Whl.
- 416340 Paint, Glass & Wallpaper Whl.
- 41639 Other Specialty-Line Building Supplies Whl.
- 416390 Other Specialty-Line Building Supplies Whl.

417 Machinery, Equipment & Supplies Whl.

- 4171 Farm, Lawn & Garden Machinery & Equip. Whl.
- 41711 Farm, Lawn & Garden Machinery & Equip. Whl.
- 417110 Farm, Lawn & Garden Machinery & Equip. Whl.
- 4172 Construction, Forestry & Ind'l Machinery Whl.
- 41721 Construction & Forestry Mach. & Equip. Whl.
- 417210 Construction & Forestry Mach. & Equip. Whl
- 41722 Mining & Oil & Gas Well Mach. & Equip. Whl
- 417220 Mining & Oil & Gas Well Mach. & Equip. Whl
- 41723 Industrial Machinery, Equip. & Supplies Whl.
- 417230 Industrial Machinery, Equip. & Supplies Whl.
- 4173 Computer & Communications Equipment Whl.
- 41731 Computer, Computer Peripheral & Software Whl.
- 417310 Computer, Computer Peripheral & Software Whl.
- 41732 Electr. Com. Navig. & Com. Equip. & Suppl. Whl
- 417320 Electr. Comp. Navig. & Com. Equip. & Suppl. Whl
- 4179 Other Machinery, Equipment & Supplies Whl.
- 41791 Office & Store Machinery & Equipment Whl.
- 417910 Office & Store Machinery & Equipment Whl.
- 41792 Service Est. Machinery, Equip. & Supplies Whl
- 417920 Service Est. Machinery, Equip. & Supplies Whl
- 41793 Professional Machinery, Equip. & Supplies Whl
- 417930 Professional Machinery, Equip. & Supplies Whl
- 41799 All Other Machinery, Equip. & Supplies Whl.
- 417990 All Other Machinery, Equip. & Supplies Whl.

418 Miscellaneous Wholesaler-Distributors

- 4181 Recyclable Material Whl.
- 41811 Recyclable Metal Whl.
- 418110 Recyclable Metal Whl.
- 41812 Recyclable Paper & Paperboard Whl.
- 418120 Recyclable Paper & Paperboard Whl.
- 41819 Other Recyclable Material Whl.
- 418190 Other Recyclable Material Whl.
- 4182 Paper & Disposable Plastic Product Whl.
- 41821 Stationery & Office Supplies Whl.
- 418210 Stationery & Office Supplies Whl.
- 41822 Other Paper & Disposable Plastic Product Whl.
- 418220 Other Paper & Disposable Plastic Product Whl
- 4183 Agricultural Supplies Whl.
- 41831 Agricultural Feed Whl.
- 418310 Agricultural Feed Whl.
- 41832 Seed Whl.

- 418320 Seed Whl.
- 41839 Agr. Chemical & Other Farm Supplies Whl.
- 418390 Agr. Chemical & Other Farm Supplies Whl
- 4184 Chemical (exc. Agr.) & Allied Product Whl.
- 41841 Chemical (exc. Agr.) & Allied Product Whl.
- 418410 Chemical (exc. Agr.) & Allied Product Whl.
- 4189 Other Misc. Whl.
- 41891 Log & Wood Chip Whl.
- 418910 Log & Wood Chip Whl.
- 41892 Mineral, Ore & Precious Metal Whl.
- 418920 Mineral, Ore & Precious Metal Whl.
- 41893 Second-Hand Goods (exc. Machinery & Auto) Whl
- 418930 Second-Hand Goods (exc. Machinery & Auto) Whl
- 41899 All Other Whl.
- 418990 All Other Whl.

419 Wholesale Agents & Brokers

- 4191 Wholesale Agents & Brokers
- 41911 Farm Product Agents & Brokers
- 419110 Farm Product Agents & Brokers
- 41912 Petroleum Product Agents & Brokers
- 419120 Petroleum Product Agents & Brokers
- 41913 Food, Beverage & Tobacco Agents & Brokers
- 419130 Food, Beverage & Tobacco Agents & Brokers
- 41914 Personal & Household Goods Agents & Brokers
- 419140 Personal & Household Goods Agents & Brokers
- 41915 Motor Vehicle & Parts Agents & Brokers
- 419150 Motor Vehicle & Parts Agents & Brokers
- 41916 Building Material & Supplies Agents & Brokers
- 419160 Building Material & Supplies Agents & Brokers
- 41917 Machinery, Equip. & Supplies Agents & Brokers
- 419170 Machinery, Equip. & Supplies Agents & Brokers
- 41919 Other Wholesale Agents & Brokers
- 419190 Other Wholesale Agents & Brokers

44-45 Retail Trade

441 Motor Vehicle and Parts Dealers

- 4411 Automobile Dealers
- 44111 New Car Dealers
- 441110 New Car Dealers
- 44112 Used Car Dealers
- 441120 Used Car Dealers
- 4412 Other Motor Vehicle Dealers
- 44121 Recreational Vehicle Dealers
- 441210 Recreational Vehicle Dealers
- 44122 Motorcycle, Boat & Other MV Dealers
- 441220 Motorcycle, Boat & Other MV Dealers
- 4413 Automotive Parts, Accessories & Tire Stores
- 44131 Automotive Parts & Accessories Stores
- 441310 Automotive Parts & Accessories Stores
- 44132 Tire Dealers
- 441320 Tire Dealers

442 Furniture & Home Furnishings Stores

- 4421 Furniture Stores
 - 44211 Furniture Stores
 - 442110 Furniture Stores
- 4422 Home Furnishings Stores
 - 44221 Floor Covering Stores
 - 442210 Floor Covering Stores
 - 44229 Other Home Furnishings Stores
 - 442291 Window Treatment Stores
 - 442292 Print & Picture Frame Stores
 - 442298 All Other Home Furnishings Stores

443 Electronics & Appliance Stores

- 4431 Electronics & Appliance Stores
 - 44311 Appliance, TV & Other Electronics Stores
 - 443110 Appliance, TV & Other Electronics Stores
 - 44312 Computer & Software Stores
 - 443120 Computer & Software Stores
 - 44313 Camera & Photographic Supplies Stores
 - 443130 Camera & Photographic Supplies Stores

444 Building Material & Garden Equipment Dealers

- 4441 Building Material & Supplies Dealers
 - 44411 Home Centres
 - 444110 Home Centres
 - 44412 Paint & Wallpaper Stores
 - 444120 Paint & Wallpaper Stores
 - 44413 Hardware Stores
 - 444130 Hardware Stores
 - 44419 Other Building Material Dealers
 - 444190 Other Building Material Dealers
- 4442 Lawn & Garden Equipment & Supplies Stores
 - 44421 Outdoor Power Equipment Stores
 - 444210 Outdoor Power Equipment Stores
 - 44422 Nursery & Garden Centres
 - 444220 Nursery & Garden Centres

445 Food & Beverage Stores

- 4451 Grocery Stores
 - 44511 Grocery (exc. Convenience) Stores
 - 445110 Grocery (exc. Convenience) Stores
 - 44512 Convenience Stores
 - 445120 Convenience Stores
- 4452 Specialty Food Stores
 - 44521 Meat Markets
 - 445210 Meat Markets
 - 44522 Fish & Seafood Markets
 - 445220 Fish & Seafood Markets
 - 44523 Fruit & Vegetable Markets
 - 445230 Fruit & Vegetable Markets
 - 44529 Other Specialty Food Stores
 - 445291 Baked Goods Stores
 - 445292 Confectionery & Nut Stores
 - 445299 All Other Specialty Food Stores
- 4453 Beer, Wine & Liquor Stores

- 44531 Beer, Wine & Liquor Stores
 - 445310 Beer, Wine & Liquor Stores

446 Health & Personal Care Stores

- 4461 Health & Personal Care Stores
 - 44611 Pharmacies & Drug Stores
 - 446110 Pharmacies & Drug Stores
 - 44612 Cosmetics, Beauty Supplies & Perfume Stores
 - 446120 Cosmetics, Beauty Supplies & Perfume Stores
 - 44613 Optical Goods Stores
 - 446130 Optical Goods Stores
 - 44619 Other Health & Personal Care Stores
 - 446191 Food (Health) Supplement Stores
 - 446199 All Other Health & Personal Care Stores

447 Gasoline Stations

- 4471 Gasoline Stations
 - 44711 Gasoline Stations with Convenience Stores
 - 447110 Gasoline Stations with Convenience Stores
 - 44719 Other Gasoline Stations
 - 447190 Other Gasoline Stations

448 Clothing & Clothing Accessories Stores

- 4481 Clothing Stores
 - 44811 Men's Clothing Stores
 - 448110 Men's Clothing Stores
 - 44812 Women's Clothing Stores
 - 448120 Women's Clothing Stores
 - 44813 Children's & Infants' Clothing Stores
 - 448130 Children's & Infants' Clothing Stores
 - 44814 Family Clothing Stores
 - 448140 Family Clothing Stores
 - 44815 Clothing Accessories Stores
 - 448150 Clothing Accessories Stores
 - 44819 Other Clothing Stores
 - 448191 Fur Stores
 - 448199 All Other Clothing Stores

4482 Shoe Stores

- 44821 Shoe Stores
 - 448210 Shoe Stores
- 4483 Jewellery, Luggage & Leather Goods Stores
 - 44831 Jewellery Stores
 - 448310 Jewellery Stores
 - 44832 Luggage & Leather Goods Stores
 - 448320 Luggage & Leather Goods Stores

451 Sporting Goods, Hobby, Book & Music Stores

- 4511 Sport, Hobby & Musical Instrument Stores
 - 45111 Sporting Goods Stores
 - 451110 Sporting Goods Stores
 - 45112 Hobby, Toy & Game Stores
 - 451120 Hobby, Toy & Game Stores
 - 45113 Sewing, Needlework & Piece Goods Stores
 - 451130 Sewing, Needlework & Piece Goods Stores
 - 45114 Musical Instrument & Supplies Stores

- 451140 Musical Instrument & Supplies Stores
- 4512 Book, Periodical & Music Stores
- 45121 Book Stores & News Dealers
- 451210 Book Stores & News Dealers
- 45122 Pre-Recorded Tape, CD & Record Stores
- 451220 Pre-Recorded Tape, CD & Record Stores

452 General Merchandise Stores

- 4521 Department Stores
- 45211 Department Stores
- 452110 Department Stores
- 4529 Other General Merchandise Stores
- 45291 Warehouse Clubs & Superstores
- 452910 Warehouse Clubs & Superstores
- 45299 All Other General Merchandise Stores
- 452991 Home & Auto Supplies Stores
- 452999 All Other Misc. General Merchandise Stores

453 Misc. Store Retailers

- 4531 Florists
- 45311 Florists
- 453110 Florists
- 4532 Office Supply, Stationery & Gift Stores
- 45321 Office Supplies & Stationery Stores
- 453210 Office Supplies & Stationery Stores
- 45322 Gift, Novelty & Souvenir Stores
- 453220 Gift, Novelty & Souvenir Stores
- 4533 Used Merchandise Stores
- 45331 Used Merchandise Stores
- 453310 Used Merchandise Stores
- 4539 Other Misc. Store Retailers
- 45391 Pet & Pet Supplies Stores
- 453910 Pet & Pet Supplies Stores
- 45392 Art Dealers
- 453920 Art Dealers
- 45393 Manufactured (Mobile) Home Dealers
- 453930 Manufactured (Mobile) Home Dealers
- 45399 All Other Misc. Store Retailers
- 453992 Beer & Wine-Making Supplies Stores
- 453999 All Other Misc. Store Retailers, n.e.c.

454 Non-Store Retailers

- 4541 Electronic Shopping & Mail-Order Houses
- 45411 Electronic Shopping & Mail-Order Houses
- 454110 Electronic Shopping & Mail-Order Houses
- 4542 Vending Machine Operators
- 45421 Vending Machine Operators
- 454210 Vending Machine Operators
- 4543 Direct Selling Establishments
- 45431 Fuel Dealers
- 454310 Fuel Dealers
- 45439 Other Direct Selling Establishments
- 454390 Other Direct Selling Establishments

48-49 Transportation & Warehousing

481 Air Transportation

- 4811 Scheduled Air Transportation
- 48111 Scheduled Air Transportation
- 481110 Scheduled Air Transportation
- 4812 Non-Scheduled Air Transportation
- 48121 Non-Scheduled Air Transportation
- 481214 Non-Scheduled Chartered Air Transportation
- 481215 Non-Scheduled Specialty Flying Services

482 Rail Transportation

- 4821 Rail Transportation
- 48211 Rail Transportation
- 482112 Short-Haul Freight Rail Transportation
- 482113 Mainline Freight Rail Transportation
- 482114 Passenger Rail Transportation

483 Water Transportation

- 4831 Deep Water Transportation
- 48311 Deep Water Transportation
- 483115 Deep Water Transportation, except by Ferries
- 483116 Deep Water Transportation, by Ferries
- 4832 Inland Water Transportation
- 48321 Inland Water Transportation
- 483213 Inland Water Transportation, except by Ferry
- 483214 Inland Water Transportation, by Ferries

484 Truck Transportation

- 4841 General Freight Trucking
- 48411 General Freight Trucking, Local
- 484110 General Freight Trucking, Local
- 48412 General Freight Trucking, Long Distance
- 484121 General Trucking, Long Distance, Truck-Load
- 484122 General Trucking, Long Distance, LTL
- 4842 Specialized Freight Trucking
- 48421 Used Household & Office Goods Moving
- 484210 Used Household & Office Goods Moving
- 48422 Specialized Freight Trucking, Local
- 484221 Bulk Liquids Trucking, Local
- 484222 Dry Bulk Materials Trucking, Local
- 484223 Forest Products Trucking, Local
- 484229 Other Specialized Freight Trucking, Local
- 48423 Specialized Freight Trucking, Long Distance
- 484231 Bulk Liquids Trucking, Long Distance
- 484232 Dry Bulk Materials Trucking, Long Distance
- 484233 Forest Products Trucking, Long Distance
- 484239 Other Specialized Trucking, Long Distance

485 Transit & Ground Passenger Transportation

- 4851 Urban Transit Systems
- 48511 Urban Transit Systems
- 485110 Urban Transit Systems
- 4852 Interurban & Rural Bus Transportation
- 48521 Interurban & Rural Bus Transportation

- 485210 Interurban & Rural Bus Transportation
- 4853 Taxi & Limousine Service
 - 48531 Taxi Service
 - 485310 Taxi Service
 - 48532 Limousine Service
 - 485320 Limousine Service
- 4854 School & Employee Bus Transportation
 - 48541 School & Employee Bus Transportation
 - 485410 School & Employee Bus Transportation
- 4855 Charter Bus Industry
 - 48551 Charter Bus Industry
 - 485510 Charter Bus Industry
- 4859 Other Transit & Ground Passenger Transport
 - 48599 Other Transit & Ground Passenger Transport
 - 485990 Other Transit & Ground Passenger Transport

486 Pipeline Transportation

- 4861 Pipeline Transportation of Crude Oil
 - 48611 Pipeline Transportation of Crude Oil
 - 486110 Pipeline Transportation of Crude Oil
- 4862 Pipeline Transportation of Natural Gas
 - 48621 Pipeline Transportation of Natural Gas
 - 486210 Pipeline Transportation of Natural Gas
- 4869 Other Pipeline Transportation
 - 48691 Pipeline Transport of Refined Petroleum Prod.
 - 486910 Pipeline Transport of Refined Petroleum Prod.
 - 48699 All Other Pipeline Transportation
 - 486990 All Other Pipeline Transportation

487 Scenic & Sightseeing Transportation

- 4871 Scenic & Sightseeing Transportation, Land
 - 48711 Scenic & Sightseeing Transportation, Land
 - 487110 Scenic & Sightseeing Transportation, Land
- 4872 Scenic & Sightseeing Transportation, Water
 - 48721 Scenic & Sightseeing Transportation, Water
 - 487210 Scenic & Sightseeing Transportation, Water
- 4879 Scenic & Sightseeing Transportation, Other
 - 48799 Scenic & Sightseeing Transportation, Other
 - 487990 Scenic & Sightseeing Transportation, Other

488 Support Activities for Transportation

- 4881 Support Activities for Air Transportation
 - 48811 Airport Operations
 - 488111 Air Traffic Control
 - 488119 Other Airport Operations
 - 48819 Other Support Activities for Air Transport
 - 488190 Other Support Activities for Air Transport
- 4882 Support Activities for Rail Transportation
 - 48821 Support Activities for Rail Transportation
 - 488210 Support Activities for Rail Transportation
- 4883 Support Activities for Water Transportation
 - 48831 Port & Harbour Operations
 - 488310 Port & Harbour Operations
 - 48832 Marine Cargo Handling
 - 488320 Marine Cargo Handling

- 48833 Navigational Services to Shipping
 - 488331 Marine Salvage Services
 - 488332 Ship Piloting Services
 - 488339 Other Navigational Services to Shipping
- 48839 Other Support Activities for Water Transport
 - 488390 Other Support Activities for Water Transport
- 4884 Support Activities for Road Transportation
 - 48841 Motor Vehicle Towing
 - 488410 Motor Vehicle Towing
 - 48849 Other Support Activities for Road Transport
 - 488490 Other Support Activities for Road Transport
- 4885 Freight Transportation Arrangement
 - 48851 Freight Transportation Arrangement
 - 488511 Marine Shipping Agencies
 - 488519 Other Freight Transportation Arrangement
 - 4889 Other Support Activities for Transportation
 - 48899 Other Support Activities for Transportation

491 Postal Service

- 4911 Postal Service
 - 49111 Postal Service
 - 491110 Postal Service

492 Couriers & Messengers

- 4921 Couriers
 - 49211 Couriers
 - 492110 Couriers
- 4922 Local Messengers & Local Delivery
 - 49221 Local Messengers & Local Delivery
 - 492210 Local Messengers & Local Delivery

493 Warehousing & Storage

- 4931 Warehousing & Storage
 - 49311 General Warehousing & Storage
 - 493110 General Warehousing & Storage
 - 49312 Refrigerated Warehousing & Storage
 - 493120 Refrigerated Warehousing & Storage
 - 49313 Farm Product Warehousing & Storage
 - 493130 Farm Product Warehousing & Storage
 - 49319 Other Warehousing & Storage
 - 493190 Other Warehousing & Storage

51 Information & Cultural Industries

511 Publishing Industries

- 5111 Newspaper, Periodical, Book & DB Publishers
 - 51111 Newspaper Publishers
 - 511110 Newspaper Publishers
 - 51112 Periodical Publishers
 - 511120 Periodical Publishers
 - 51113 Book Publishers
 - 511130 Book Publishers
- 51114 Database & Directory Publishers
 - 511140 Database & Directory Publishers

- 51119 Other Publishers
- 511190 Other Publishers
- 5112 Software Publishers
- 51121 Software Publishers
- 511210 Software Publishers

512 Motion Picture & Sound Recording Industries

- 5121 Motion Picture & Video Industries
 - 51211 Motion Picture & Video Production
 - 512110 Motion Picture & Video Production
 - 51212 Motion Picture & Video Production
 - 512120 Motion Picture & Video Production
 - 51213 Motion Picture & Video Exhibition
 - 512130 Motion Picture & Video Exhibition
 - 51219 Post-Prod. & Other Motion Picture & Video Ind
 - 512190 Post-Prod. & Other Motion Picture & Video Ind
- 5122 Sound Recording Industries
 - 51221 Record Production
 - 512210 Record Production
 - 51222 Integrated Record Production/Distribution
 - 512220 Integrated Record Production/Distribution
 - 51223 Music Publishers
 - 512230 Music Publishers
 - 51224 Sound Recording Studios
 - 512240 Sound Recording Studios
 - 51229 Other Sound Recording Industries
 - 512290 Other Sound Recording Industries

513 Broadcasting & Telecommunications

- 5131 Radio & Television Broadcasting
 - 51311 Radio Broadcasting
 - 513110 Radio Broadcasting
 - 51312 Television Broadcasting
 - 513120 Television Broadcasting
- 5132 Pay TV, Specialty TV & Program Distribution
 - 51321 Pay & Specialty Television
 - 513210 Pay & Specialty Television
 - 51322 Cable & Other Program Distribution
 - 513220 Cable & Other Program Distribution
- 5133 Telecommunications
 - 51331 Wired Telecommunications Carriers
 - 513310 Wired Telecommunications Carriers
 - 51332 Wireless Telecom. Carriers (exc. Satellite)
 - 513320 Wireless Telecom. Carriers (exc. Satellite)
 - 51333 Telecommunications Resellers
 - 513330 Telecommunications Resellers
 - 51334 Satellite Telecommunications
 - 513340 Satellite Telecommunications
 - 51339 Other Telecommunications
 - 513390 Other Telecommunications

514 Information & Data Processing Services

- 5141 Information Services
 - 51411 News Syndicates
 - 514110 News Syndicates

- 51412 Libraries & Archives
 - 514121 Libraries
 - 514122 Archives
- 51419 Other Information Services
 - 514191 On-Line Information Services
 - 514199 All Other Information Services
- 5142 Data Processing Services
 - 51421 Data Processing Services
 - 514210 Data Processing Services

52 Finance & Insurance

521 Monetary Authorities - Central Bank

- 5211 Monetary Authorities - Central Bank
 - 52111 Monetary Authorities - Central Bank
 - 521110 Monetary Authorities - Central Bank

522 Credit Intermediation & Related Activities

- 5221 Depository Credit Intermediation
 - 52211 Banking
 - 522111 Personal & Commercial Banking Industry
 - 522112 Corporate & Institutional Banking Industry
 - 52213 Local Credit Unions
 - 522130 Local Credit Unions
 - 52219 Other Depository Credit Intermediation
 - 522190 Other Depository Credit Intermediation
- 5222 Non-Depository Credit Intermediation
 - 52221 Credit Card Issuing
 - 522210 Credit Card Issuing
 - 52222 Sales Financing
 - 522220 Sales Financing
 - 52229 Other Non-Depository Credit Intermediation
 - 522291 Consumer Lending
 - 522299 All Other Non-Depository Credit Intermed.
- 5223 Activities Related to Credit Intermediation
 - 52231 Mortgage & Other Loan Brokers
 - 522310 Mortgage & Other Loan Brokers
 - 52232 Financial Transactions Process. & Related Act
 - 522320 Financial Transactions Process. & Related Act
 - 522321 Central Credit Unions
 - 522329 Other Financial Trans Process & Clearing House Act.
 - 52239 Other Activities Related to Credit Intermed.
 - 522390 Other Activities Related to Credit Intermed.

523 Securities, Commodity Contracts & Related

- 5231 Securities & Commodity Contracts Intermed.
 - 52311 Investment Banking & Securities Dealing
 - 523110 Investment Banking & Securities Dealing
 - 52312 Securities Brokerage
 - 523120 Securities Brokerage
 - 52313 Commodity Contracts Dealing
 - 523130 Commodity Contracts Dealing
 - 52314 Commodity Contracts Brokerage
 - 523140 Commodity Contracts Brokerage

- 5232 Securities & Commodity Exchanges
 - 52321 Securities & Commodity Exchanges
 - 523210 Securities & Commodity Exchanges
- 5239 Other Financial Investment Activities
 - 52391 Miscellaneous Intermediation
 - 523910 Miscellaneous Intermediation
 - 52392 Portfolio Management
 - 523920 Portfolio Management
 - 52393 Investment Advice
 - 523930 Investment Advice
 - 52399 All Other Financial Investment Activities
 - 523990 All Other Financial Investment Activities

524 Insurance Carriers & Related Activities

- 5241 Insurance Carriers
 - 52411 Direct Life, Health & Medical Insurance
 - 524111 Direct Individual Life, etc., Insurance
 - 524112 Direct Group Life, etc., Insurance Carriers
 - 52412 Direct Insurance (exc. Life, Health, etc.)
 - 524121 Direct General Property & Casualty Insurance
 - 524122 Direct, Private, Automobile Insurance
 - 524123 Direct, Public, Automobile Insurance
 - 524124 Direct Property Insurance Carriers
 - 524125 Direct Liability Insurance Carriers
 - 524129 Other Direct Insurance (exc. Life, etc.)
- 52413 Reinsurance Carriers
 - 524131 Life Reinsurance Carriers
 - 524132 Accident & Sickness Reinsurance Carriers
 - 524133 Automobile Reinsurance Carriers
 - 524134 Property Reinsurance Carriers
 - 524135 Liability Reinsurance Carriers
 - 524139 General & Other Reinsurance Carriers
- 5242 Agencies, Brokerages & Other Insurance Act.
 - 52421 Insurance Agencies & Brokerages
 - 524210 Insurance Agencies & Brokerages
 - 52429 Other Insurance Related Activities
 - 524291 Claims Adjusters
 - 524299 All Other Insurance Related Activities

526 Funds and Other Financial Vehicles

- 5261 Pension Funds
 - 52611 Pension Funds
 - 526111 Trusteed Pension Funds
 - 526112 Non-Trusteed Pension Funds
- 5269 Other Funds and Financial Vehicles
 - 52691 Open-End Investment Funds
 - 526910 Open-End Investment Funds
 - 52692 Mortgage Investment Funds
 - 526920 Mortgage Investment Funds
 - 52693 Segregated (except Pension) Funds
 - 526930 Segregated (except Pension) Funds
 - 52698 All Other Funds and Financial Vehicles
 - 526980 All Other Funds and Financial Vehicles
 - 526981 Securitization Vehicles
 - 526989 All Other Misc Funds & Financial Vehicles

53 Real Estate & Rental & Leasing

531 Real Estate

- 5311 Lessors of Real Estate
 - 53111 Lessors of Residential Buildings & Dwellings
 - 531111 Lessors of Res. Buildings (exc. Soc. Housing)
 - 531112 Lessors of Social Housing Projects
 - 53112 Lessors - Non-Res. Buildings (exc. Mini-Ware)
 - 531120 Lessors - Non-Res. Buildings (exc. Mini-Ware)
 - 53113 Self-Storage Mini-Warehouses
 - 531130 Self-Storage Mini-Warehouses
 - 53119 Lessors of Other Real Estate Property
 - 531190 Lessors of Other Real Estate Property
- 5312 Offices of Real Estate Agents & Brokers
 - 53121 Offices of Real Estate Agents & Brokers
 - 531210 Offices of Real Estate Agents & Brokers
- 5313 Activities Related to Real Estate
 - 53131 Real Estate Property Managers
 - 531310 Real Estate Property Managers
 - 53132 Offices of Real Estate Appraisers
 - 531320 Offices of Real Estate Appraisers
 - 53139 Other Activities Related to Real Estate
 - 531390 Other Activities Related to Real Estate

532 Rental & Leasing Services

- 5321 Automotive Equipment Rental & Leasing
 - 53211 Passenger Car Rental & Leasing
 - 532111 Passenger Car Rental
 - 532112 Passenger Car Leasing
 - 53212 Truck, Utility Trailer & RV Rental & Leasing
 - 532120 Truck, Utility Trailer & RV Rental & Leasing
- 5322 Consumer Goods Rental
 - 53221 Consumer Electronics & Appliance Rental
 - 532210 Consumer Electronics & Appliance Rental
 - 53222 Formal Wear & Costume Rental
 - 532220 Formal Wear & Costume Rental
 - 53223 Video Tape & Disc Rental
 - 532230 Video Tape & Disc Rental
 - 53229 Other Consumer Goods Rental
 - 532290 Other Consumer Goods Rental
- 5323 General Rental Centres
 - 53231 General Rental Centres
 - 532310 General Rental Centres
- 5324 Commercial & Ind'l Machinery Rental & Leasing
 - 53241 Construction, etc., Mach. Rental & Leasing
 - 532410 Construction, etc., Mach. Rental & Leasing
 - 53242 Office Machinery & Equipment Rental & Leasing
 - 532420 Office Machinery & Equipment Rental & Leasing
 - 53249 Other Commercial & Ind'l Mach. Rental/Leasing
 - 532490 Other Commercial & Ind'l Mach. Rental/Leasing

533 Lessors of Non-Financial Intangible Assets

- 5331 Lessors of Non-Financial Intangible Assets
 - 53311 Lessors of Non-Financial Intangible Assets

533110 Lessors of Non-Financial Intangible Assets

54 Professional, Scientific & Technical Services

541 Professional, Scientific & Technical Services

- 5411 Legal Services
 - 54111 Offices of Lawyers
 - 541110 Offices of Lawyers
 - 54112 Offices of Notaries
 - 541120 Offices of Notaries
 - 54119 Other Legal Services
 - 541190 Other Legal Services
- 5412 Accounting, Tax Prep. & Bookkeeping Services
 - 54121 Accounting, Tax Prep. & Bookkeeping Services
 - 541212 Offices of Accountants
 - 541213 Tax Preparation Services
 - 541215 Bookkeeping, Payroll & Related Services
- 5413 Architectural, Engineering & Related Services
 - 54131 Architectural Services
 - 541310 Architectural Services
 - 54132 Landscape Architectural Services
 - 541320 Landscape Architectural Services
 - 54133 Engineering Services
 - 541330 Engineering Services
 - 54134 Drafting Services
 - 541340 Drafting Services
 - 54135 Building Inspection Services
 - 541350 Building Inspection Services
 - 54136 Geophysical Surveying & Mapping Services
 - 541360 Geophysical Surveying & Mapping Services
 - 54137 Surveying & Mapping (exc. Geophysical) Serv.
 - 541370 Surveying & Mapping (exc. Geophysical) Serv.
 - 54138 Testing Laboratories
 - 541380 Testing Laboratories
- 5414 Specialized Design Services
 - 54141 Interior Design Services
 - 541410 Interior Design Services
 - 54142 Industrial Design Services
 - 541420 Industrial Design Services
 - 54143 Graphic Design Services
 - 541430 Graphic Design Services
 - 54149 Other Specialized Design Services
 - 541490 Other Specialized Design Services
- 5415 Computer Systems Design & Related Services
 - 54151 Computer Systems Design & Related Services
 - 541510 Computer Systems Design & Related Services
- 5416 Mgmt., Scientific & Technical Consulting Services
 - 54161 Management Consulting Services
 - 541611 Administrative & Gen. Mgmt. Consulting Serv.
 - 541612 Human Resource & Exec. Search Consulting Services
 - 541619 Other Management Consulting Services
 - 54162 Environmental Consulting Services
 - 541620 Environmental Consulting Services
 - 54169 Other Scientific & Technical Consulting Services

- 541690 Other Scientific & Technical Consulting Serv.
- 5417 Scientific R&D Services
 - 54171 R&D in the Physical, Eng. & Life Sciences
 - 541710 R&D in the Physical, Eng. & Life Sciences
 - 54172 R&D in the Social Sciences & Humanities
 - 541720 R&D in the Social Sciences & Humanities
- 5418 Advertising & Related Services
 - 54181 Advertising Agencies
 - 541810 Advertising Agencies
 - 54182 Public Relations Services
 - 541820 Public Relations Services
 - 54183 Media Buying Agencies
 - 541830 Media Buying Agencies
 - 54184 Media Representatives
 - 541840 Media Representatives
 - 54185 Display Advertising
 - 541850 Display Advertising
 - 54186 Direct Mail Advertising
 - 541860 Direct Mail Advertising
 - 54187 Advertising Material Distribution Services
 - 541870 Advertising Material Distribution Services
 - 54189 Other Services Related to Advertising
 - 541891 Specialty Advertising Distributors
 - 541899 All Other Services Related to Advertising
- 5419 Other Prof., Scientific & Technical Services
 - 54191 Market Research & Public Opinion Polling
 - 541910 Market Research & Public Opinion Polling
 - 54192 Photographic Services
 - 541920 Photographic Services
 - 54193 Translation & Interpretation Services
 - 541930 Translation & Interpretation Services
 - 54194 Veterinary Services
 - 541940 Veterinary Services
 - 54199 All Other Prof., Scientific & Tech. Services
 - 541990 All Other Prof., Scientific & Tech. Services

55 Management of Companies & Enterprises

551 Management of Companies & Enterprises

- 5511 Management of Companies & Enterprises
 - 55111 Management of Companies & Enterprises
 - 551113 Holding Companies
 - 551114 Head Offices

56 Admin., Support, Waste Mgmt & Remed. Services

561 Administrative & Support Services

- 5611 Office Administrative Services
 - 56111 Office Administrative Services
 - 561110 Office Administrative Services
- 5612 Facilities Support Services
 - 56121 Facilities Support Services
 - 561210 Facilities Support Services
- 5613 Employment Services

- 56131 Employment Placement Agencies
 - 561310 Employment Placement Agencies
- 56132 Temporary Help Services
 - 561320 Temporary Help Services
- 56133 Employee Leasing Services
 - 561330 Employee Leasing Services
- 5614 Business Support Services
 - 56141 Document Preparation Services
 - 561410 Document Preparation Services
 - 56142 Telephone Call Centres
 - 561420 Telephone Call Centres
 - 56143 Business Service Centres
 - 561430 Business Service Centres
 - 56144 Collection Agencies
 - 561440 Collection Agencies
 - 56145 Credit Bureaus
 - 561450 Credit Bureaus
 - 56149 Other Business Support Services
 - 561490 Other Business Support Services
- 5615 Travel Arrangement & Reservation Services
 - 56151 Travel Agencies
 - 561510 Travel Agencies
 - 56152 Tour Operators
 - 561520 Tour Operators
 - 56159 Other Travel Arrangement & Reservation
 - 561590 Other Travel Arrangement & Reservation
- 5616 Investigation & Security Services
 - 56161 Investigation, Guard & Armoured Car Services
 - 561611 Investigation Services
 - 561612 Security Guard & Patrol Services
 - 561613 Armoured Car Services
 - 56162 Security Systems Services
 - 561621 Security Systems Services (exc. Locksmiths)
 - 561622 Locksmiths
- 5617 Services to Buildings & Dwellings
 - 56171 Exterminating & Pest Control Services
 - 561710 Exterminating & Pest Control Services
 - 56172 Janitorial Services
 - 561721 Window Cleaning Services
 - 561722 Janitorial Services (exc. Window Cleaning)
 - 56173 Landscaping Services
 - 561730 Landscaping Services
 - 56174 Carpet & Upholstery Cleaning Services
 - 561740 Carpet & Upholstery Cleaning Services
 - 56179 Other Services to Buildings & Dwellings
 - 561791 Duct & Chimney Cleaning Services
 - 561799 All Other Services to Buildings & Dwellings
- 5619 Other Support Services
 - 56191 Packaging & Labelling Services
 - 561910 Packaging & Labelling Services
 - 56192 Convention & Trade Show Organizers
 - 561920 Convention & Trade Show Organizers
 - 56199 All Other Support Services
 - 561990 All Other Support Services

562 Waste Management & Remediation Services

- 5621 Waste Collection
 - 56211 Waste Collection
 - 562110 Waste Collection
- 5622 Waste Treatment & Disposal
 - 56221 Waste Treatment & Disposal
 - 562210 Waste Treatment & Disposal
- 5629 Remediation & Other Waste Mgmt. Services
 - 56291 Remediation Services
 - 562910 Remediation Services
 - 56292 Material Recovery Facilities
 - 562920 Material Recovery Facilities
 - 56299 All Other Waste Management Services
 - 562990 All Other Waste Management Services

61 Educational Services

611 Educational Services

- 6111 Elementary & Secondary Schools
 - 61111 Elementary & Secondary Schools
 - 611110 Elementary & Secondary Schools
- 6112 Community Colleges & C.E.G.E.P.s
 - 61121 Community Colleges & C.E.G.E.P.s
 - 611210 Community Colleges & C.E.G.E.P.s
- 6113 Universities
 - 61131 Universities
 - 611310 Universities
- 6114 Business Schools & Computer & Mgmt. Training
 - 61141 Business & Secretarial Schools
 - 611410 Business & Secretarial Schools
 - 61142 Computer Training
 - 611420 Computer Training
 - 61143 Professional & Mgmt. Development Training
 - 611430 Professional & Mgmt. Development Training
- 6115 Technical & Trade Schools
 - 61151 Technical & Trade Schools
 - 611510 Technical & Trade Schools
- 6116 Other Schools & Instruction
 - 61161 Fine Arts Schools
 - 611610 Fine Arts Schools
 - 61162 Athletic Instruction
 - 611620 Athletic Instruction
 - 61163 Language Schools
 - 611630 Language Schools
 - 61169 All Other Schools & Instruction
 - 611690 All Other Schools & Instruction
- 6117 Educational Support Services
 - 61171 Educational Support Services
 - 611710 Educational Support Services

62 Health Care & Social Assistance

621 Ambulatory Health Care Services

- 6211 Offices of Physicians
 - 62111 Offices of Physicians

- 621110 Offices of Physicians
- 6212 Offices of Dentists
 - 62121 Offices of Dentists
 - 621210 Offices of Dentists
- 6213 Offices of Other Health Practitioners
 - 62131 Offices of Chiropractors
 - 621310 Offices of Chiropractors
 - 62132 Offices of Optometrists
 - 621320 Offices of Optometrists
 - 62133 Mental Health Practitioners (exc. Physicians)
 - 621330 Mental Health Practitioners (exc. Physicians)
 - 62134 Physical & Speech Therapists & Audiologists
 - 621340 Physical & Speech Therapists & Audiologists
 - 62139 Offices of All Other Health Practitioners
 - 621390 Offices of All Other Health Practitioners
- 6214 Out-Patient Care Centres
 - 62141 Family Planning Centres
 - 621410 Family Planning Centres
 - 62142 Out-Patient Mental Health, etc., Centres
 - 621420 Out-Patient Mental Health, etc., Centres
 - 62149 Other Out-Patient Care Centres
 - 621494 Community Health Centres
 - 621499 All Other Out-Patient Care Centres
- 6215 Medical & Diagnostic Laboratories
 - 62151 Medical & Diagnostic Laboratories
 - 621510 Medical & Diagnostic Laboratories
- 6216 Home Health Care Services
 - 62161 Home Health Care Services
 - 621610 Home Health Care Services
- 6219 Other Ambulatory Health Care Services
 - 62191 Ambulance Services
 - 621911 Ambulance (exc. Air Ambulance) Services
 - 621912 Air Ambulance Services
 - 62199 All Other Ambulatory Health Care Services
 - 621990 All Other Ambulatory Health Care Services

622 Hospitals

- 6221 General Medical & Surgical Hospitals
 - 62211 General Medical & Surgical Hospitals
 - 622111 General (exc. Paediatric) Hospitals
 - 622112 Paediatric Hospitals
- 6222 Psychiatric & Substance Abuse Hospitals
 - 62221 Psychiatric & Substance Abuse Hospitals
 - 622210 Psychiatric & Substance Abuse Hospitals
- 6223 Specialty (exc. Psych., etc.) Hospitals
 - 62231 Specialty (exc. Psych., etc.) Hospitals
 - 622310 Specialty (exc. Psych., etc.) Hospitals

623 Nursing & Residential Care Facilities

- 6231 Nursing Care Facilities
 - 62311 Nursing Care Facilities
 - 623110 Nursing Care Facilities
- 6232 Res. Developmental Handicap, etc., Facilities
 - 62321 Residential Developmental Handicap Facilities
 - 623210 Residential Developmental Handicap Facilities

- 62322 Res. Mental Health & Substance Abuse Fac.
 - 623221 Residential Substance Abuse Facilities
 - 623222 Homes for the Psychiatrically Disabled
- 6233 Community Care Facilities for the Elderly
 - 62331 Community Care Facilities for the Elderly
 - 623310 Community Care Facilities for the Elderly
- 6239 Other Residential Care Facilities
 - 62399 Other Residential Care Facilities
 - 623991 Transition Homes for Women
 - 623992 Homes for Emotionally Disturbed Children
 - 623993 Homes for the Physically Handicapped/Disabled
 - 623999 All Other Residential Care Facilities

624 Social Assistance

- 6241 Individual & Family Services
 - 62411 Child & Youth Services
 - 624110 Child & Youth Services
 - 62412 Services for the Elderly & Disabled Persons
 - 624120 Services for the Elderly & Disabled Persons
 - 62419 Other Individual & Family Services
 - 624190 Other Individual & Family Services
- 6242 Community Food & Housing & Emerg., etc. Serv.
 - 62421 Community Food Services
 - 624210 Community Food Services
 - 62422 Community Food Services
 - 624220 Community Food Services
 - 62423 Emergency & Other Relief Services
 - 624230 Emergency & Other Relief Services
- 6243 Vocational Rehabilitation Services
 - 62431 Vocational Rehabilitation Services
 - 624310 Vocational Rehabilitation Services
- 6244 Child Day-Care Services
 - 62441 Child Day-Care Services
 - 624410 Child Day-Care Services

71 Arts, Entertainment & Recreation

711 Performing Arts, Spectator Sports & Related

- 7111 Performing Arts Companies
 - 71111 Theatre Companies & Dinner Theatres
 - 711111 Theatre (exc. Musical) Companies
 - 711112 Musical Theatre & Opera Companies
 - 71112 Dance Companies
 - 711120 Dance Companies
 - 71113 Musical Groups & Artists
 - 711130 Musical Groups & Artists
 - 71119 Other Performing Arts Companies
 - 711190 Other Performing Arts Companies
- 7112 Spectator Sports
 - 71121 Spectator Sports
 - 711211 Sports Teams & Clubs
 - 711213 Horse Race Tracks
 - 711218 Other Spectator Sports
- 7113 Promoters of Performing Arts, Sports, etc.
 - 71131 Promoters of Arts, Sports, etc. with Fac.

- 711311 Live Theatres & Other Presenters with Fac.
- 711319 Sports Stadiums & Other Presenters with Fac.
- 71132 Promoters of Arts, Sports, etc. w/o Fac.
- 711321 Performing Arts Promoters w/o Facilities
- 711322 Festivals w/o Facilities
- 711329 Sports & Other Presenters w/o Facilities
- 7114 Agents & Managers for Public Figures
- 71141 Agents & Managers for Public Figures
- 711410 Agents & Managers for Public Figures
- 7115 Independent Artists, Writers & Performers
- 71151 Independent Artists, Writers & Performers
- 711510 Independent Artists, Writers & Performers

712 Heritage Institutions

- 7121 Heritage Institutions
- 71211 Museums
- 712111 Non-Commercial Art Museums & Galleries
- 712119 Museums (exc. Art Museums & Galleries)
- 71212 Historic & Heritage Sites
- 712120 Historic & Heritage Sites
- 71213 Zoos & Botanical Gardens
- 712130 Zoos & Botanical Gardens
- 71219 Other Heritage Institutions
- 712190 Other Heritage Institutions

713 Amusement, Gambling & Recreation Industries

- 7131 Amusement Parks & Arcades
- 71311 Amusement & Theme Parks
- 713110 Amusement & Theme Parks
- 71312 Amusement Arcades
- 713120 Amusement Arcades
- 7132 Gambling Industries
- 71321 Casinos (exc. Casino Hotels)
- 713210 Casinos (exc. Casino Hotels)
- 71329 Other Gambling Industries
- 713291 Lotteries
- 713299 All Other Gambling Industries
- 7139 Other Amusement & Recreation Industries
- 71391 Golf Courses & Country Clubs
- 713910 Golf Courses & Country Clubs
- 71392 Skiing Facilities
- 713920 Skiing Facilities
- 71393 Marinas
- 713930 Marinas
- 71394 Fitness & Recreational Sports Centres
- 713940 Fitness & Recreational Sports Centres
- 71395 Bowling Centres
- 713950 Bowling Centres
- 71399 All Other Amusement & Recreation Industries
- 713990 All Other Amusement & Recreation Industries

72 Accommodation & Food Services

721 Accommodation Services

- 7211 Traveller Accommodation

- 72111 Hotels (exc. Casino Hotels) & Motels
 - 721111 Hotels
 - 721112 Motor Hotels
 - 721113 Resorts
 - 721114 Motels
 - 72112 Casino Hotels
 - 721120 Casino Hotels
 - 72119 Other Traveller Accommodation
 - 721191 Bed & Breakfast
 - 721192 Housekeeping Cottages & Cabins
 - 721198 All Other Traveller Accommodation
 - 7212 RV Parks & Recreational Camps
 - 72121 RV Parks & Recreational Camps
 - 721211 RV Parks & Campgrounds
 - 721212 Hunting & Fishing Camps
 - 721213 Rec. (exc Hunting & Fishing) & Vacation Camps
 - 7213 Rooming & Boarding Houses
 - 72131 Rooming & Boarding Houses
 - 721310 Rooming & Boarding Houses
- ### **722 Food Services & Drinking Places**
- 7221 Full-Service Restaurants
 - 72211 Full-Service Restaurants
 - 722110 Full-Service Restaurants
 - 7222 Limited-Service Eating Places
 - 72221 Limited-Service Eating Places
 - 722210 Limited-Service Eating Places
 - 7223 Special Food Services
 - 72231 Food Service Contractors
 - 722310 Food Service Contractors
 - 72232 Caterers
 - 722320 Caterers
 - 72233 Mobile Caterers
 - 722330 Mobile Caterers
 - 7224 Drinking Places (Alcoholic Beverages)
 - 72241 Drinking Places (Alcoholic Beverages)
 - 722410 Drinking Places (Alcoholic Beverages)

81 Other Services (exc. Public Administration)

811 Repair and Maintenance

- 8111 Automotive R&M
- 81111 Automotive Mechanical & Electrical R&M
- 811111 General Automotive Repair
- 811112 Automotive Exhaust System Repair
- 811119 Other Automotive Mechanical & Electrical R&M
- 81112 Auto. Body, Paint, Interior & Glass Repair
- 811121 Automotive Body, Paint & Interior R&M
- 811122 Automotive Glass Replacement Shops
- 81119 Other Automotive R&M
- 811192 Car Washes
- 811199 All Other Automotive R&M
- 8112 Electronic & Precision Equipment R&M

- 81121 Electronic & Precision Equipment R&M
 - 811210 Electronic & Precision Equipment R&M
- 8113 Commercial & Ind'l Mach. & Equip. R&M
 - 81131 Commercial & Ind'l Mach. & Equip. R&M
 - 811310 Commercial & Ind'l Mach. & Equip. R&M
- 8114 Personal & Household Goods R&M
 - 81141 Home & Garden Equipment & Appliance R&M
 - 811411 Home & Garden Equipment R&M
 - 811412 Appliance R&M
 - 81142 Reupholstery & Furniture Repair
 - 811420 Reupholstery & Furniture Repair
 - 81143 Footwear & Leather Goods Repair
 - 811430 Footwear & Leather Goods Repair
 - 81149 Other Personal & Household Goods R&M
 - 811490 Other Personal & Household Goods R&M

812 Personal & Laundry Services

- 8121 Personal Care Services
 - 81211 Hair Care & Esthetic Services
 - 812114 Barber Shops
 - 812115 Beauty Salons
 - 812116 Unisex Hair Salons
 - 81219 Other Personal Care Services
 - 812190 Other Personal Care Services
- 8122 Funeral Services
 - 81221 Funeral Homes
 - 812210 Funeral Homes
 - 81222 Cemeteries & Crematoria
 - 812220 Cemeteries & Crematoria
- 8123 Dry Cleaning and Laundry Services
 - 81231 Coin-Operated Laundries & Dry Cleaners
 - 812310 Coin-Operated Laundries & Dry Cleaners
 - 81232 Dry Cleaning & Laundry Serv. (exc. Coin-Op.)
 - 812320 Dry Cleaning & Laundry Serv. (exc. Coin-Op.)
 - 81233 Linen & Uniform Supply
 - 812330 Linen & Uniform Supply
- 8129 Other Personal Services
 - 81291 Pet Care (exc. Veterinary) Services
 - 812910 Pet Care (exc. Veterinary) Services
 - 81292 Photo Finishing Services
 - 812921 Photo Finishing Laboratories (exc. One-Hour)
 - 812922 One-Hour Photo Finishing
 - 81293 Parking Lots & Garages
 - 812930 Parking Lots & Garages
 - 81299 All Other Personal Services
 - 812990 All Other Personal Services

813 Religious, Grant-Making, Civic & Similar Orgs

- 8131 Religious Organizations
 - 81311 Religious Organizations
 - 813110 Religious Organizations
- 8132 Grant-Making & Giving Services
 - 81321 Grant-Making & Giving Services
 - 813210 Grant-Making & Giving Services
- 8133 Social Advocacy Organizations

- 81331 Social Advocacy Organizations
 - 813310 Social Advocacy Organizations
- 8134 Civic & Social Organizations
 - 81341 Civic & Social Organizations
 - 813410 Civic & Social Organizations
- 8139 Business, Prof., Labour & Other Member. Orgs
 - 81391 Business Associations
 - 813910 Business Associations
 - 81392 Professional Organizations
 - 813920 Professional Organizations
 - 81393 Labour Organizations
 - 813930 Labour Organizations
 - 81394 Political Organizations
 - 813940 Political Organizations
 - 81399 Other Membership Organizations
 - 813990 Other Membership Organizations

814 Private Households

- 8141 Private Households
 - 81411 Private Households
 - 814110 Private Households

91 Public Administration

911 Federal Government Public Administration

- 9111 Defence Services
 - 91111 Defence Services
 - 911110 Defence Services
- 9112 Federal Protective Services
 - 91121 Federal Courts of Law
 - 911210 Federal Courts of Law
 - 91122 Federal Correctional Services
 - 911220 Federal Correctional Services
 - 91123 Federal Police Services
 - 911230 Federal Police Services
 - 91124 Federal Regulatory Services
 - 911240 Federal Regulatory Services
 - 91129 Other Federal Protective Services
 - 911290 Other Federal Protective Services
- 9113 Federal Labour, Employment & Immigration Serv
 - 91131 Federal Labour & Employment Services
 - 911310 Federal Labour & Employment Services
 - 91132 Immigration Services
 - 911320 Immigration Services
 - 91139 Other Fed. Labour, Employ. & Immigration Serv
 - 911390 Other Fed. Labour, Employ. & Immigration Serv
- 9114 Foreign Affairs & International Assistance
 - 91141 Foreign Affairs
 - 911410 Foreign Affairs
 - 91142 International Assistance
 - 911420 International Assistance
- 9119 Other Fed. Government Public Administration
 - 91191 Other Fed. Government Public Administration
 - 911910 Other Fed. Government Public Administration

912 Prov. & Territorial Public Administration

- 9121 Provincial Protective Services
 - 91211 Provincial Courts of Law
 - 912110 Provincial Courts of Law
 - 91212 Provincial Correctional Services
 - 912120 Provincial Correctional Services
 - 91213 Provincial Police Services
 - 912130 Provincial Police Services
 - 91214 Provincial Fire-Fighting Services
 - 912140 Provincial Fire-Fighting Services
 - 91215 Provincial Regulatory Services
 - 912150 Provincial Regulatory Services
 - 91219 Other Provincial Protective Services
 - 912190 Other Provincial Protective Services
- 9122 Provincial Labour & Employment Services
 - 91221 Provincial Labour & Employment Services
 - 912210 Provincial Labour & Employment Services
- 9129 Other Prov. & Terr. Public Administration
 - 91291 Other Prov. & Terr. Public Administration
 - 912910 Other Prov. & Terr. Public Administration

913 Municipal Public Administration

- 9131 Municipal Protective Services
 - 91311 Municipal Courts of Law
 - 913110 Municipal Courts of Law
 - 91312 Municipal Correctional Services
 - 913120 Municipal Correctional Services
 - 91313 Municipal Police Services
 - 913130 Municipal Police Services
 - 91314 Municipal Fire-Fighting Services
 - 913140 Municipal Fire-Fighting Services
 - 91315 Municipal Regulatory Services
 - 913150 Municipal Regulatory Services
 - 91319 Other Municipal Protective Services
 - 913190 Other Municipal Protective Services
- 9139 Other Municipal Public Administration
 - 91391 Other Municipal Public Administration
 - 913910 Other Municipal Public Administration

914 Aboriginal Public Administration

- 9141 Aboriginal Public Administration
 - 91411 Aboriginal Public Administration
 - 914110 Aboriginal Public Administration

919 Extra-Territorial Public Administration

- 9191 Extra-Territorial Public Administration
 - 91911 Extra-Territorial Public Administration
 - 919110 Extra-Territorial Public Administration

APPENDIX 4

Schedule 1 - Hazardous Industrial Wastes

Excerpt from the Regulation prepared for purposes of convenience only,
and for accurate reference recourse should be had to the official volumes.

Appendix 4 - Schedule 1 (Hazardous Industrial Wastes)

Hazardous Industrial Waste from Non-Specific Sources

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
F001	NA9301	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	NA9302	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten per cent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003	NA9303	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F004	NA9304	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005	NA9305	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F006	NA9306	Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
F007	NA9308	Spent cyanide plating bath solutions from electroplating operations

F008	NA9309	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.
F009	NA9310	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
F010	NA9311	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.
F011	NA9312	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
F012	NA9313	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.
F019	NA9307	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.
F020		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5- trichlorophenol.).
F021		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.
F022		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.
F023		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).
F024		Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in Schedules 2A or 2B.).

F025		Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.
F026		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.
F027		Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.).
F028		Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026 and F027.
F032		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with § 261.35 ¹ or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F034		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F035		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

F037		Petroleum refinery primary oil/water/solids separation sludge—Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in § 261.31(b)(2) ¹ (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under § 261.4(a)(12)(i) ¹ , if those residuals are to be disposed of.
F038		Petroleum refinery secondary (emulsified) oil/water/solids separation sludge—Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § 261.31(b)(2) ¹ (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.
F039		Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.).

Hazardous Industrial Waste from Specific Sources

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
Wood preservation:		
K001	NA9316	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
Inorganic pigments:		
K002	NA9317	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003	NA9318	Wastewater treatment sludge from the production of molybdate orange pigments.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K004	NA9319	Wastewater treatment sludge from the production of zinc yellow pigments.
K005	NA9320	Wastewater treatment sludge from the production of chrome green pigments.
K006	NA9321	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
K007	NA9322	Wastewater treatment sludge from the production of iron blue pigments.
K008	NA9323	Oven residue from the production of chrome oxide green pigments.
Organic chemicals:		
K009	NA9324	Distillation bottoms from the production of acetaldehyde from ethylene.
K010	NA9325	Distillation side cuts from the production of acetaldehyde from ethylene.
K011	NA9326	Bottom stream from the wastewater stripper in the production of acrylonitrile.
K013	NA9327	Bottom stream from the acetonitrile column in the production of acrylonitrile.
K014	NA9328	Bottoms from the acetonitrile purification column in the production of acrylonitrile.
K015	NA9329	Still bottoms from the distillation of benzyl chloride.
K016	NA9330	Heavy ends or distillation residues from the production of carbon tetrachloride.
K017	NA9331	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K018	NA9332	Heavy ends from the fractionation column in ethyl chloride production.
K019	NA9333	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
K020	NA9334	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K021	NA9335	Aqueous spent antimony catalyst waste from fluoromethanes production.
K022	NA9336	Distillation bottom tars from the production of phenol/acetone from cumene.
K023	NA9337	Distillation light ends from the production of phthalic anhydride from naphthalene.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K024	NA9338	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K025	NA9341	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
K026	NA9342	Stripping still tails from the production of methyl ethyl pyridines.
K027	NA9343	Centrifuge and distillation residues from toluene diisocyanate production.
K028	NA9344	Spent catalyst from the hydrochlorinator reactor in the productions of 1,1,1trichloroethane.
K029	NA9345	Waste from the product stream stripper in the production of 1,1,1trichloroethane.
K030	NA9348	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
K083	NA9349	Distillation bottoms from aniline production.
K085	NA9352	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K093	NA9339	Distillation light ends from the production of phthalic anhydride from orthoxylene.
K094	NA9340	Distillation bottoms from the production of phthalic anhydride from orthoxylene.
K095	NA9346	Distillation bottoms from the production of 1,1,1trichloroethane.
K096	NA9347	Heavy ends from the heavy ends column from the production of 1,1,1trichloroethane.
K103	NA9350	Process residues from aniline extraction from the production of aniline.
K104	NA9351	Combined wastewater streams generated from nitrobenzene/aniline production.
K105	NA9353	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
K107		Column bottoms from product separation from the production of 1,1-dimethyl-hydra-zine (UDMH) from carboxylic acid hydrazines.
K108		Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K109		Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K110		Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K111		Product washwaters from the production of dinitrotoluene via nitration of toluene
K112		Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
K113		Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K114		Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K115		Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K116		Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K117		Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K118		Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K136		Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K140		Floor sweepings, off-specification product and spent filter media from the production of 2,4,6-tribromophenol.
K149		Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups, (This waste does not include still bottoms from the distillation of benzyl chloride.)
K150		Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K151		Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K156		Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).
K157		Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)
K158		Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).
K159		Organics from the treatment of thiocarbamate wastes
K161		Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.)
Inorganic chemicals:		
K071	NA9390	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.
K073	NA9391	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
K106	NA9392	Wastewater treatment sludge from the mercury cell process in chlorine production.
Pesticides:		
K031	NA9354	Byproduct salts generated in the production of MSMA and cacodylic acid.
K032	NA9355	Wastewater treatment sludge from the production of chlordane.
K033	NA9356	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
K034	NA9357	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K035	NA9359	Wastewater treatment sludges generated in the production of creosote.
K036	NA9360	Still bottoms from toluene reclamation distillation in the production of disulphoton.
K037	NA9361	Wastewater treatment sludges from the production of disulphoton.
K038	NA9362	Wastewater from the washing and stripping of phorate production.
K039	NA9363	Filter cake from the filtration of diethyl phosphorodithioic acid in the production of phorate.
K040	NA9364	Wastewater treatment sludge from the production of phorate.
K041	NA9365	Wastewater treatment sludge from the production of toxaphene.
K042	NA9367	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5T.
K043	NA9368	2, 6Dichlorophenol waste from the production of 2,4D.
K097	NA9358	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
K098	NA9366	Untreated process wastewater from the production of toxaphene.
K099	NA9369	Untreated wastewater from the production of 2, 4D.
K123		Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salt.
K124		Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.
K125		Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.
K126		Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.
K131		Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.
K132		Spent absorbent and wastewater separator solids from the production of methyl bromide.
Explosives:		

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K044	NA9370	Wastewater treatment sludges from the manufacturing and processing of explosives.
K045	NA9371	Spent carbon from the treatment of wastewater containing explosives.
K046	NA9372	Wastewater treatment sludges from the manufacturing formulation and loading of leadbased initiating compounds.
K047	NA9373	Pink/red water from TNT operations.
Petroleum refining:		
K048	NA9374	Dissolved air flotation (DAF) float from the petroleum refining industry.
K049	NA9375	Slop oil emulsion solids from the petroleum refining industry.
K050	NA9376	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	NA9377	API separator sludge from the petroleum refining industry.
K052	NA9378	Tank bottoms (leaded) from the petroleum refining industry.
K169		Crude oil storage tank sediment from petroleum refining operations.
K170		Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.
K171		Spent Hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).
K172		Spent Hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).
Iron and steel:		
K061	NA9380	Emission control dust/sludge from the primary production of steel in electric furnaces.
K062	NA9381	Spent pickle liquor generated by steel finishing operations within the iron and steel industry at steel works, blast furnaces (including coke ovens), rolling mills, iron and steel foundries, gray and ductile iron foundries, malleable iron foundries, steel investment foundries or other miscellaneous steel foundries or at facilities in the electrometallurgical products (except steel) industry, steel wiredrawing and steel nails and spikes industry, coldrolled steel sheet, strip and bars industry, or steel pipe and tubes industry.
Primary copper:		

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K064	NA9383	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.
Primary lead:		
K065	NA9384	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.
Primary zinc:		
K066	NA9385	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.
Primary aluminum:		
K088		Spent potliners from primary aluminum reduction
Ferroalloys:		
K090		Emission control dust or sludge from ferrochromiumsilicon production
K091		Emission control dust or sludge from ferrochromium production
Secondary lead:		
K069	NA9388	Emission control dust/sludge from secondary lead smelting. (NOTE: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting this stay, EPA will publish a notice of the action in the Federal Register.
K100	NA9389	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
Veterinary pharmaceuticals:		
K084	NA9394	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
K101	NA9395	Distillation tar residues from the distillation of anilinebased compounds in the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
K102	NA9396	Residue from the use of activated carbon for decolourization in the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
Ink formulation:		
K086	NA9393	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
Coking:		
K060	NA9379	Ammonia still lime sludge from coking operations.
K087	NA9397	Decanter tank tar sludge from coking operations.
K141		Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations).
K142		Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.
K143		Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.
K144		Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.
K145		Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.
K147		Tar storage tank residues from coal tar refining.
K148		Residues from coal tar distillation, including but not limited to, still bottoms

¹ Resource Conservation and Recovery Act (RCRA), United States Congress, 42 U.S.C. s/s 6901 et seq. (1976)
Subtitle C

Code of Federal Regulations, 40CFR, Chapter I – Environmental Protection Agency, Subchapter I – Solid Wastes, Part 261 – Identification and Listing of Hazardous Waste

Appendix 4 - Schedule 1.1 (Exempt Hazardous Industrial Wastes)

INDUSTRY AND SITE	WASTE
ICI Canada Inc, Cornwall	Brine purification muds (known either as K071 or NO. NA9390, saturator and clarifier sludges only, without mixing with other wastes or materials) generated from mercury cells at the chloralkali chlorine plant.
Iron and steel industry, any site	Sludge generated by lime stabilization of spent pickle liquor (known either as K062 or NO. NA9381) generated by steel finishing operations within the iron and steel industry at steel works, blast furnaces (including coke ovens), rolling mills, iron and steel foundries, gray and ductile iron foundries, malleable iron foundries, steel investment foundries or other miscellaneous steel foundries or at facilities in the electrometallurgical products (except steel) industry, steel wire drawing and steel nails and spikes industry, coldrolled steel sheet, strip and bars industry, or steel pipe and tubes industry.
Iron and steel industry, any site	Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061 (known also as NO. NA9380) or K062 (known also as NO. NA9381) waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces.
Electroplating industry, any site	Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of F006 (known also as NO. NA9306) waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces.
Organic chemical industry, and site	Biological treatment sludge from the treatment of organic waste (K156) and wastewaters (K157) from the production of carbamates and carbamoyl oximes.
Petroleum refining industry, any site	Catalyst inert support media separated from spent hydrotreating catalyst (K171) or spent hydrotreating catalyst (K172).

APPENDIX 5

Schedule 2(A) - Acute Hazardous Waste Chemicals

Excerpt from the Regulation prepared for purposes of convenience only,
and for accurate reference recourse should be had to the official volumes.

Appendix 5 - Schedule 2 Part A (Acute Hazardous Waste Chemicals)

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P026	5344-82-1	1-(o-Chlorophenyl)thiourea	ON1037
P081	55-63-0	1,2,3-Propanetriol, trinitrate	ON1089
P042	51-43-4	1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]-	ON1025
P067	75-55-8	1,2-Propylenimine	ON1082
P185	26419-73-8	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino)-carbonyl]oxime	
P004	309-00-2	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-,(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)	ON1010
P060	465-73-6	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a-hexahydro-,(1alpha,4alpha,4abeta,5beta,8beta,8abeta)-	ON1070
P002	591-08-2	1-Acetyl-2-thiourea	ON1002
P048	51-28-5	2,4-Dinitrophenol	ON1055
P051	**72-20-8	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha,2beta,2abeta,3alpha,6alpha,6 abeta,7beta, 7aalpha)-, & metabolites	ON1062
P037	60-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1 a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha,2beta,2aalpha,3beta,6beta, 6a alpha,7beta, 7aalpha)-[b]oxirene, 3,4,5,6,9,9-hexachloro-	ON1043
P045	39196-18-4	2-Butanone,3,3-dimethyl-1-methylthio)-,O-[methylamino)carbon y] oxime	ON1049
P034	131-89-5	2-Cyclohexyl-4,6-dinitrophenol	ON1054
P001	**81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%	ON1006
P069	75-86-5	2-Methylactonitrile	ON1005
P017	598-31-2	2-Propanone, 1-bromo-	ON1029
P005	107-18-6	2-Propen-1-ol	ON1011
P003	107-02-8	2-Propenal	ON1007
P102	107-19-7	2-Propyn-1-ol	ON1097
P007	2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-	ON1008
P027	542-76-7	3-Chloropropionitrile	ON1038
P202	64-00-6	3-Isopropylphenyl N-methylcarbamate	
P047	**534-52-1	4,6-Dinitro-o-cresol, & salts	ON1053
P059	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	ON1069
P008	504-24-5	4-Aminopyridine	ON1013
P008	504-24-5	4-Pyridinamine	ON1013
P007	2763-96-4	5-(Aminomethyl)-3-isoxazolol	ON1008
P050	115-29-7	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1 ,5,5a,6,9,9a-hexahydro-,3-oxide	ON1060
P127	1563-66-2	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate	
P088	145-73-3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	ON1061

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P023	107-20-0	Acetaldehyde, chloro-	ON1001
P057	640-19-7	Acetamide, 2-fluoro-	ON1003
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-	ON1002
P058	62-74-8	Acetic acid, fluoro-, sodium salt	ON1067
P003	107-02-8	Acrolein	ON1007
P070	116-06-3	Aldicarb	ON1009
P203	1646-88-4	Aldicarb sulfone	
P004	309-00-2	Aldrin	ON1010
P005	107-18-6	Allyl alcohol	ON1011
P046	122-09-8	alpha, alpha-Dimethylphenethylamine	ON1052
P072	86-88-4	alpha-Naphthylthiourea	ON1083
P006	20859-73-8	Aluminum phosphide	ON1012
P009	131-74-8	Ammonium picrate	ON1015
P119	7803-55-6	Ammonium vanadate	ON1014
P099	506-61-6	Argentate(1-), bis(cyano-C)-, potassium	ON1096
P010	7778-39-4	Arsenic acid H ₃ AsO ₄	ON1016
P012	1327-53-3	Arsenic oxide As ₂ O ₃	ON1017
P011	1303-28-2	Arsenic oxide As ₂ O ₃	ON1018
P011	1303-28-2	Arsenic pentoxide	ON1018
P012	1327-53-3	Arsenic trioxide	ON1017
P038	692-42-2	Arsine, diethyl-	ON1019
P036	696-28-6	Arsonous dichloride, phenyl-	ON1042
P054	151-56-4	Aziridine	ON1020
P067	75-55-8	Aziridine, 2-methyl-	ON1082
P013	542-62-1	Barium cyanide	ON1021
P024	106-47-8	Benzenamine, 4-chloro-	ON1022
P077	100-01-6	Benzenamine, 4-nitro-	ON1023
P028	100-44-7	Benzene, (chloromethyl)-	ON1024
P046	122-09-8	Benzeneethanamine, alpha, alpha-dimethyl-	ON1052
P014	108-98-5	Benzenethiol	ON1026
P188	57-64-7	Benzoic acid, 2-hydroxy-, compd. With (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1)	
P028	100-44-7	Benzyl chloride	ON1024
P015	7440-41-7	Beryllium powder	ON1027
P017	598-31-2	Bromoacetone	ON1029
P018	357-57-3	Brucine	ON1030
P021	592-01-8	Calcium cyanide	ON1031
P021	592-01-8	Calcium cyanide Ca(CN) ₂	ON1031

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P189	55285-14-8	Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2-dimethyl- 7-benzofuranyl ester	
P191	644-64-4	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H- pyrazol-3-yl este	
P190	1129-41-5	Carbamic acid, methyl-, 3-methylphenyl ester	
P192	119-38-0	Carbamic acid,dimethyl-,3-methyl-1-(1methylethyl)-1H-pyrazol-5-yl ester	
P127	1563-66-2	Carbofuran	
P022	75-15-0	Carbon disulfide	ON1034
P095	75-44-5	Carbonic dichloride	ON1035
P189	55285-14-8	Carbosulfan	
P023	107-20-0	Chloroacetaldehyde	ON1001
P029	544-92-3	Copper cyanide	ON1039
P029	544-92-3	Copper cyanide Cu(CN)	ON1039
P030	N/A	Cyanides (soluble cyanide salts), not otherwise specified	ON1040
P031	460-19-5	Cyanogen	ON1041
P033	506-77-4	Cyanogen chloride	ON1036
P033	506-77-4	Cyanogen chloride (CN)Cl	ON1036
P016	542-88-1	Dichloromethyl ether	ON1028
P036	696-28-6	Dichlorophenylarsine	ON1042
P037	60-57-1	Dieldrin	ON1043
P038	692-42-2	Diethylarsine	ON1019
P041	311-45-5	Diethyl-p-nitrophenyl phosphate	ON1045
P043	55-91-4	Diisopropylfluorophosphate (DFP)	ON1047
P044	60-51-5	Dimethoate	ON1048
P191	644-64-4	Dimetilan.	
P020	88-85-7	Dinoseb	ON1056
P085	152-16-9	Diphosphoramide, octamethyl-	ON1057
P111	107-49-3	Diphosphoric acid, tetraethyl ester	ON1098
P039	298-04-4	Disulfoton	ON1044
P049	541-53-7	Dithiobiuret	ON1058
P050	115-29-7	Endosulfan	ON1060
P088	145-73-3	Endothall	ON1061
P051	72-20-8	Endrin	ON1062
P051	72-20-8	Endrin, & metabolites	ON1062
P042	51-43-4	Epinephrine	ON1025
P031	460-19-5	Ethanedinitrile	ON1041

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P194	23135-22-0	Ethanimidothioic acid, 2-(dimethylamino)-N-[[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester	
P066	16752-77-5	Ethanimidothioic acid, N-[[[(methylamino)carbonyl]oxy]-,methyl ester	ON1004
P101	107-12-0	Ethyl cyanide	ON1064
P054	151-56-4	Ethyleneimine	ON1020
P097	52-85-7	Famphur	ON1065
P056	7782-41-4	Fluorine	ON1066
P057	640-19-7	Fluoroacetamide	ON1003
P058	62-74-8	Fluoroacetic acid, sodium salt	ON1067
P198	23422-53-9	Formetamate hydrochloride	
P197	17702-57-7	Formparanate	
P065	628-86-4	Fulminic acid, mercury(2+) salt	ON1068
P059	76-44-8	Heptachlor	ON1069
P062	757-58-4	Hexaethyl tetraphosphate	ON1072
P068	60-34-4	Hydrazine, methyl-	ON1074
P116	79-19-6	Hydrazinecarbothioamide	ON1073
P063	74-90-8	Hydrocyanic acid	ON1075
P063	74-90-8	Hydrogen cyanide	ON1075
P096	7803-51-2	Hydrogen phosphide	ON1077
P060	465-73-6	Isodrin	ON1070
P192	119-38-0	Isolan	
P196	15339-36-3	Manganese dimethyl dithiocarbamate	
P196	15339-36-3	Manganese,bis(dimethylcarbomodithioato-S,S')-	
P202	64-00-6	M-Cumenyl methylcarbamate	
P065	628-86-4	Mercury fulminate	ON1068
P092	62-38-4	Mercury, (acetato-O)phenyl-	ON1079
P082	62-75-9	Methanamine, N-methyl-N-nitroso-	ON1051
P064	624-83-9	Methane, isocyanato-	ON1078
P016	542-88-1	Methane, oxybis[chloro-	ON1028
P112	509-14-8	Methane, tetranitro-	ON1080
P118	75-70-7	Methanethiol, trichloro-	ON1081
P197	17702-57-7	Methanimidamide,N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino) carbonyl]oxy]phenyl]-	
P198	23422-53-9	Methanimidamide,N,N-dimethyl-N'-[3-[[[(methylamino)-carbonyl]oxy]phenyl]-,monohydrochloride	
P199	2032-65-7	Methiocarb	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P066	16752-77-5	Methomyl	ON1004
P068	60-34-4	Methyl hydrazine	ON1074
P064	624-83-9	Methyl isocyanate	ON1078
P071	298-00-0	Methyl parathion	ON1050
P190	1129-41-5	Metolcarb	
P128	315-8-4	Mexacarbate	
P073	13463-39-3	Nickel carbonyl	ON1084
P073	13463-39-3	Nickel carbonyl Ni(CO) ₄ (T-4)-	ON1084
P074	557-19-7	Nickel cyanide	ON1085
P074	557-19-7	Nickel cyanide Ni(CN) ₂	ON1085
P075	**54-11-5	Nicotine, & salts	ON1086
P076	10102-43-9	Nitric oxide	ON1087
P078	10102-44-0	Nitrogen dioxide	ON1088
P076	10102-43-9	Nitrogen oxide NO	ON1087
P078	10102-44-0	Nitrogen oxide NO ₂	ON1088
P081	55-63-0	Nitroglycerine	ON1089
P082	62-75-9	N-Nitrosodimethylamine	ON1051
P084	4549-40-0	N-Nitrosomethylvinylamine	ON1063
P040	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate	ON1046
P085	152-16-9	Octamethylpyrophosphoramidate	ON1057
P087	20816-12-0	Osmium oxide OsO ₄ (T-4)-	ON1090
P087	20816-12-0	Osmium tetroxide	ON1090
P194	23135-22-0	Oxamyl	
P089	56-38-2	Parathion	ON1091
P024	106-47-8	p-Chloroaniline	ON1022
P020	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	ON1056
P009	131-74-8	Phenol, 2,4,6-trinitro-, ammonium salt	ON1015
P048	51-28-5	Phenol, 2,4-dinitro-	ON1055
P034	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-	ON1054
P047	**534-52-1	Phenol, 2-methyl-4,6-dinitro-, & salts	ON1053
P202	64-00-6	Phenol, 3-(1-methylethyl)-, methyl carbamate	
P201	2631-37-0	Phenol, 3-methyl-5-(1-methylethyl)-,methyl carbamate	
P199	2032-65-7	Phenol,(3,5-dimethyl-4-(methylthio)-),methylcarbamate	
P128	315-18-4	Phenol,4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	
P092	62-38-4	Phenylmercury acetate	ON1079
P093	103-85-5	Phenylthiourea	ON1092

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P094	298-02-2	Phorate	ON1093
P095	75-44-5	Phosgene	ON1035
P096	7803-51-2	Phosphine	ON1077
P041	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester	ON1045
P094	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	ON1093
P039	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	ON1044
P044	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	ON1048
P043	55-91-4	Phosphorofluoric acid, bis(1-methylethyl) ester	ON1047
P071	298-00-0	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester	ON1050
P089	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	ON1091
P040	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	ON1046
P097	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-r dimethyl ester	ON1065
P188	57-64-7	Physostigmine salicylate.	
P204	57-47-6	Physostigmine.	
P110	78-00-2	Plumbane, tetraethyl-	ON1094
P077	100-01-6	p-Nitroaniline	ON1023
P098	151-50-8	Potassium cyanide	ON1095
P098	151-50-8	Potassium cyanide K(CN)	ON1095
P099	506-61-6	Potassium silver cyanide	ON1096
P201	2631-37-0	Promecarb	
P203	1646-88-4	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime	
P070	116-06-3	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime	ON1009
P101	107-12-0	Propanenitrile	ON1064
P069	75-86-5	Propanenitrile, 2-hydroxy-2-methyl-	ON1005
P027	542-76-7	Propanenitrile, 3-chloro-	ON1038
P102	107-19-7	Propargyl alcohol	ON1097
P075	**54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	ON1086
P204	57-47-6	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-	
P114	12039-52-0	Selenious acid, dithallium(1+) salt	ON1106
P103	630-10-4	Selenourea	ON1033
P104	506-64-9	Silver cyanide	ON1099
P104	506-64-9	Silver cyanide Ag(CN)	ON1099
P105	26628-22-8	Sodium azide	ON1100
P106	143-33-9	Sodium cyanide	ON1101

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P106	143-33-9	Sodium cyanide Na(CN)	ON1101
P108	**57-24-9	Strychnidin-10-one, & salts	ON1103
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-	ON1030
P108	**57-24-9	Strychnine, & salts	ON1103
P115	7446-18-6	Sulfuric acid, dithallium(1+) salt	ON1105
P110	78-00-2	Tetraethyl lead	ON1094
P111	107-49-3	Tetraethyl pyrophosphate	ON1098
P109	3689-24-5	Tetraethyldithiopyrophosphate	ON1059
P112	509-14-8	Tetranitromethane	ON1080
P062	757-58-4	Tetraphosphoric acid, hexaethyl ester	ON1072
P113	1314-32-5	Thallic oxide	ON1104
P113	1314-32-5	Thallium oxide Tl_2O_3	ON1104
P114	12039-52-0	Thallium(I) selenite	ON1106
P115	7446-18-6	Thallium(I) sulfate	ON1105
P109	3689-24-5	Thiodiphosphoric acid, tetraethyl ester	ON1059
P045	39196-18-4	Thiofanox	ON1049
P049	541-53-7	Thioimidodicarbonic diamide $[(H_2N)C(S)]_2NH$	ON1058
P014	108-98-5	Thiophenol	ON1026
P116	79-19-6	Thiosemicarbazide	ON1073
P026	5344-82-1	Thiourea, (2-chlorophenyl)-	ON1037
P072	86-88-4	Thiourea, 1-naphthalenyl-	ON1083
P093	103-85-5	Thiourea, phenyl-	ON1092
P185	26419-73-8	Tirpate	
P123	8001-35-2	Toxaphene	ON1032
P118	75-70-7	Trichloromethanethiol	ON1081
P119	7803-55-6	Vanadic acid, ammonium salt	ON1014
P120	1314-62-1	Vanadium oxide V_2O_5	ON1107
P120	1314-62-1	Vanadium pentoxide	ON1107
P084	4549-40-0	Vinylamine, N-methyl-N-nitroso-	ON1063
P001	**81-81-2	Warfarin, & salts, when present at concentrations greater than 0.3%	ON1006
P121	557-21-1	Zinc cyanide	ON1108
P121	557-21-1	Zinc cyanide $Zn(CN)_2$	ON1108
P122	1314-84-7	Zinc phosphide Zn_3P_2 , when present at concentrations greater than 10%	ON1109
P205	137-30-4	Zinc, bis(dimethylcarbamodithioato-S,S')-	
P205	137-30-4	Ziram	

** CAS number given for parent compound only

APPENDIX 6

Schedule 2(B) - Hazardous Waste Chemicals

Excerpt from the Regulation prepared for purposes of convenience only,
and for accurate reference recourse should be had to the official volumes.

Appendix 6 - Schedule 2 Part B (Hazardous Waste Chemicals)

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U021	92-87-5	[1,1-Biphenyl]-4,4-diamine	ON2064
U073	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	ON2071
U091	119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	ON2072
U095	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	ON2073
U208	630-20-6	1,1,1,2-Tetrachloroethane	ON2158
U209	79-34-5	1,1,2,2-Tetrachloroethane	ON2159
U227	79-00-5	1,1,2-Trichloroethane	ON2162
U078	75-35-4	1,1-Dichloroethylene	ON2128
U098	57-14-7	1,1-Dimethylhydrazine	ON2144
U207	95-94-3	1,2,4,5-Tetrachlorobenzene	ON2061
U085	1464-53-5	1,2:3,4-Diepoxybutane	ON2070
U069	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	ON2037
U088	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	ON2038
U102	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	ON2039
U107	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	ON2040
U028	117-81-7	1,2-Benzenedicarboxylic acid,bis(2-ethylhexyl) ester	ON2036
U202	**81-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts	ON2065
U066	96-12-8	1,2-Dibromo-3-chloropropane	ON2124
U079	156-60-5	1,2-Dichloroethylene	ON2129
U099	540-73-8	1,2-Dimethylhydrazine	ON2145
U109	122-66-7	1,2-Diphenylhydrazine	ON2148
U155	91-80-5	1,2-Ethanediamine,N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	ON2202
U193	1120-71-4	1,2-Oxathiolane, 2,2-dioxide	ON2216
U142	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-	ON2118
U234	99-35-4	1,3,5-Trinitrobenzene	ON2063
U182	123-63-7	1,3,5-Trioxane, 2,4,6-trimethyl-	ON2217
U201	108-46-3	1,3-Benzenediol	ON2046
U364	22961-82-6	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,	
U278	22781-23-3	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,methyl carbamate	
U141	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	ON2054
U203	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	ON2053
U090	94-58-6	1,3-Benzodioxole, 5-propyl-	ON2055
U128	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	ON2079
U130	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	ON2112
U084	542-75-6	1,3-Dichloropropene	ON2135
U190	85-44-9	1,3-Isobenzofurandione	ON2035

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U186	504-60-9	1,3-Pentadiene	ON2203
U193	1120-71-4	1,3-Propane sultone	ON2216
U074	764-41-0	1,4-Dichloro-2-butene	ON2086
U108	123-91-1	1,4-Diethyleneoxide	ON2136
U108	123-91-1	1,4-Dioxane	ON2136
U166	130-15-4	1,4-Naphthalenedione	ON2208
U166	130-15-4	1,4-Naphthoquinone	ON2208
U172	924-16-3	1-Butanamine, N-butyl-N-nitroso-	ON2080
U031	71-36-3	1-Butanol	ON2082
U011	61-82-5	1H-1,2,4-Triazol-3-amine	ON2016
U186	504-60-9	1-Methylbutadiene	ON2203
U167	134-32-7	1-Naphthalenamine	ON2210
U279	63-25-2	1-Naphthalenol, methylcarbamate.	
U194	107-10-8	1-Propanamine	ON2224
U111	621-64-7	1-Propanamine, N-nitroso-N-propyl-	ON2150
U110	142-84-7	1-Propanamine, N-propyl-	ON2149
U235	126-72-7	1-Propanol, 2,3-dibromo-, phosphate (3:1)	ON2225
U140	78-83-1	1-Propanol, 2-methyl-	ON2189
U243	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	ON2184
U084	542-75-6	1-Propene, 1,3-dichloro-	ON2135
U085	1464-53-5	2,2-Bioxirane	ON2070
F027	58-90-2	2,3,4,6-Tetrachlorophenol	ON2219
U237	66-75-1	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	ON2237
F027	93-76-5	2,4,5-T	ON2233
F027	95-95-4	2,4,5-Trichlorophenol	ON2220
U408	118-79-6	2,4,6-Tribromophenol	
F027	88-06-2	2,4,6-Trichlorophenol	ON2221
U240	**94-75-7	2,4-D, salts & esters	ON2114
U081	120-83-2	2,4-Dichlorophenol	ON2132
U101	105-67-9	2,4-Dimethylphenol	ON2146
U105	121-14-2	2,4-Dinitrotoluene	ON2051
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione	ON2068
U147	108-31-6	2,5-Furandione	ON2177
U082	87-65-0	2,6-Dichlorophenol	ON2133
U106	606-20-2	2,6-Dinitrotoluene	ON2052
U236	72-57-1	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium salt	ON2209
U005	53-96-3	2-Acetylaminofluorene	ON2004

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U159	78-93-3	2-Butanone	ON2083
U160	1338-23-4	2-Butanone, peroxide	ON2084
U053	4170-30-3	2-Butenal	ON2085
U074	764-41-0	2-Butene, 1,4-dichloro-	ON2086
U143	303-34-4	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester,[1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-	ON2190
U042	110-75-8	2-Chloroethyl vinyl ether	ON2103
U125	98-01-1	2-Furancarboxaldehyde	ON2176
U058	50-18-0	2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	ON2113
U248	**81-81-2	2H-1-Benzopyran-2-one,4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less	ON2009
U116	96-45-7	2-Imidazolidinethione	ON2169
U168	91-59-8	2-Naphthalenamine	ON2211
U171	79-46-9	2-Nitropropane	ON2213
U191	109-06-8	2-Picoline	ON2223
U002	67-64-1	2-Propanone	ON2226
U007	79-06-1	2-Propenamide	ON2012
U009	107-13-1	2-Propenenitrile	ON2014
U152	126-98-7	2-Propenenitrile, 2-methyl-	ON2195
U008	79-10-7	2-Propenoic acid	ON2013
U118	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	ON2170
U162	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	ON2205
U113	140-88-5	2-Propenoic acid, ethyl ester	ON2167
U073	91-94-1	3,3'-Dichlorobenzidine	ON2071
U091	119-90-4	3,3'-Dimethoxybenzidine	ON2072
U095	119-93-7	3,3'-Dimethylbenzidine	ON2073
U148	123-33-1	3,6-Pyridazinedione, 1,2-dihydro-	ON2141
U157	56-49-5	3-Methylcholanthrene	ON2021
U164	56-04-2	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	ON2206
U158	101-14-4	4,4'-Methylenebis(2-chloroaniline)	ON2028
U036	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	ON2099
U030	101-55-3	4-Bromophenyl phenyl ether	ON2033
U049	3165-93-3	4-Chloro-o-toluidine, hydrochloride	ON2026
U161	108-10-1	4-Methyl-2-pentanone	ON2204
U059	20830-81-3	5,12-Naphthacenedione,8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	ON2115

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U181	99-55-8	5-Nitro-o-toluidine	ON2030
U094	57-97-6	7,12-Dimethylbenz[a]anthracene	ON2025
U367	1563-38-8	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-	
U394	30558-43-1	A2213	
U001	75-07-0	Acetaldehyde	ON2001
U034	75-87-6	Acetaldehyde, trichloro-	ON2002
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-	ON2003
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-	ON2004
U112	141-78-6	Acetic acid ethyl ester	ON2005
See F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-	ON2233
U240	**94-75-7	Acetic acid, (2,4-dichlorophenoxy)-,salts & esters	ON2114
U144	301-04-2	Acetic acid, lead(2+) salt	ON2006
U214	563-68-8	Acetic acid, thallium(1+) salt	ON2007
U002	67-64-1	Acetone	ON2226
U003	75-05-8	Acetonitrile	ON2008
U004	98-86-2	Acetophenone	ON2010
U006	75-36-5	Acetyl chloride	ON2011
U007	79-06-1	Acrylamide	ON2012
U008	79-10-7	Acrylic acid	ON2013
U009	107-13-1	Acrylonitrile	ON2014
U096	80-15-9	alpha, alpha-Dimethylbenzylhydroperoxide	ON2143
U167	134-32-7	alpha-Naphthylamine	ON2210
U011	61-82-5	Amitrole	ON2016
U012	62-53-3	Aniline	ON2017
U136	75-60-5	Arsinic acid, dimethyl-	ON2087
U014	492-80-8	Auramine	ON2018
U015	115-02-6	Azaserine	ON2019
U010	50-07-7	Azirino[2,3_3,4]pyrrolo[1,2-a]indole-4,7-dione,6-amino-8-[[aminocarbonyl]oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1alpha,8beta,8alpha,8balpha)]-	ON2020
U280	101-27-9	Barban.	
U364	22961-82-6	Bendiocarb phenol	
U278	22781-23-3	Bendiocarb.	
U271	17804-35-2	Benomyl.	
U018	56-55-3	Benz[a]anthracene	ON2024
U094	57-97-6	Benz[a]anthracene, 7,12-dimethyl-	ON2025
U016	225-51-4	Benz[c]acridine	ON2022
U157	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	ON2021
U017	98-87-3	Benzal chloride	ON2023

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U192	23950-58-5	Benzamide,3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	ON2127
U012	62-53-3	Benzenamine	ON2017
U328	95-53-4	Benzenamine, 2-methyl-	
U222	636-21-5	Benzenamine, 2-methyl-, hydrochloride	ON2029
U181	99-55-8	Benzenamine, 2-methyl-5-nitro-	ON2030
U014	492-80-8	Benzenamine, 4,4-carbonimidoylbis[N,N-dimethyl-	ON2018
U158	101-14-4	Benzenamine, 4,4-methylenebis[2-chloro-	ON2028
U049	3165-93-3	Benzenamine, 4-chloro-2-methyl-,hydrochloride	ON2026
U353	106-49-0	Benzenamine, 4-methyl-	
U093	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-	ON2027
U019	71-43-2	Benzene	ON2031
U055	98-82-8	Benzene, (1-methylethyl)-	ON2056
U017	98-87-3	Benzene, (dichloromethyl)-	ON2023
U023	98-07-7	Benzene, (trichloromethyl)-	ON2062
U247	72-43-5	Benzene, 1,1-(2,2,2-trichloroethylidene)bis[4- methoxy-	ON2163
U207	95-94-3	Benzene, 1,2,4,5-tetrachloro-	ON2061
U070	95-50-1	Benzene, 1,2-dichloro-	ON2041
U234	99-35-4	Benzene, 1,3,5-trinitro-	ON2063
U071	541-73-1	Benzene, 1,3-dichloro-	ON2042
U223	26471-62-5	Benzene, 1,3-diisocyanatomethyl-	ON2044
U072	106-46-7	Benzene, 1,4-dichloro-	ON2043
U030	101-55-3	Benzene, 1-bromo-4-phenoxy-	ON2033
U105	121-14-2	Benzene, 1-methyl-2,4-dinitro-	ON2051
U106	606-20-2	Benzene, 2-methyl-1,3-dinitro-	ON2052
U037	108-90-7	Benzene, chloro-	ON2034
U239	1330-20-7	Benzene, dimethyl-	ON2045
U127	118-74-1	Benzene, hexachloro-	ON2047
U056	110-82-7	Benzene, hexahydro-	ON2048
U220	108-88-3	Benzene, methyl-	ON2050
U169	98-95-3	Benzene, nitro-	ON2057
U183	608-93-5	Benzene, pentachloro-	ON2058
U185	82-68-8	Benzene, pentachloronitro-	ON2059
U061	50-29-3	Benzene,1,1-(2,2,2-trichloroethylidene)bis[4-chloro-	ON2117
U060	72-54-8	Benzene,1,1-(2,2-dichloroethylidene)bis[4-chloro-	ON2116
U038	510-15-6	Benzeneacetic acid,4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	ON2032
U035	305-03-3	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	ON2081
U221	25376-45-8	Benzenediamine, ar-methyl-	ON2121
U020	98-09-9	Benzenesulfonic acid chloride	ON2060

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U020	98-09-9	Benzenesulfonyl chloride	ON2060
U021	92-87-5	Benzidine	ON2064
U022	50-32-8	Benzo[a]pyrene	ON2067
U064	189-55-9	Benzo[rsr]pentaphene	ON2123
U023	98-07-7	Benzotrichloride	ON2062
U047	91-58-7	beta-Chloronaphthalene	ON2106
U168	91-59-8	beta-Naphthylamine	ON2211
U225	75-25-2	Bromoform	ON2078
U136	75-60-5	Cacodylic acid	ON2087
U032	13765-19-0	Calcium chromate	ON2088
U280	101-27-9	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester	
U409	23564-05-8	Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester	
U271	17804-35-2	Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester	
U372	10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl,methyl ester	
U238	51-79-6	Carbamic acid, ethyl ester	ON2089
U178	615-53-2	Carbamic acid, methylnitroso-, ethyl ester	ON2090
U373	122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester	
U097	79-44-7	Carbamic chloride, dimethyl-	ON2094
U114	**111-54-6	Carbamodithioic acid, 1,2-ethanediybis-,salts & esters	ON2155
U389	2303-17-5	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl)ester	
U062	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester	ON2119
U387	52888-80-9	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	
U279	63-25-2	Carbaryl.	
U372	10605-21-7	Carbendazim	
U367	1563-38-8	Carbofuran phenol	
U033	353-50-4	Carbon oxyfluoride	ON2097
U211	56-23-5	Carbon tetrachloride	ON2098
U215	6533-73-9	Carbonic acid, dithallium(1+) salt	ON2095
U033	353-50-4	Carbonic difluoride	ON2097
U156	79-22-1	Carbonochloridic acid, methyl ester	ON2096
U034	75-87-6	Chloral	ON2002
U035	305-03-3	Chlorambucil	ON2081
U036	57-74-9	Chlordane, alpha & gamma isomers	ON2099
U026	494-03-1	Chlornaphazin	ON2100
U037	108-90-7	Chlorobenzene	ON2034

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U038	510-15-6	Chlorobenzilate	ON2032
U044	67-66-3	Chloroform	ON2104
U046	107-30-2	Chloromethyl methyl ether	ON2105
U032	13765-19-0	Chromic acid H ₂ CrO ₄ calcium salt	ON2088
U050	218-01-9	Chrysene	ON2069
U051	N/A	Creosote	ON2108
U052	1319-77-3	Cresol (Cresylic acid)	ON2109
U053	4170-30-3	Crotonaldehyde	ON2085
U055	98-82-8	Cumene	ON2056
U246	506-68-3	Cyanogen bromide (CN)Br	ON2077
U056	110-82-7	Cyclohexane	ON2048
U129	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	ON2182
U057	108-94-1	Cyclohexanone	ON2111
U058	50-18-0	Cyclophosphamide	ON2113
U059	20830-81-3	Daunomycin	ON2115
U060	72-54-8	DDD	ON2116
U061	50-29-3	DDT	ON2117
U206	18883-66-4	D-Glucose,2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amin o]-	ON2179
U062	2303-16-4	Diallate	ON2119
U063	53-70-3	Dibenz[a,h]anthracene	ON2122
U064	189-55-9	Dibenzo[a,i]pyrene	ON2123
U069	84-74-2	Dibutyl phthalate	ON2037
U075	75-71-8	Dichlorodifluoromethane	ON2126
U025	111-44-4	Dichloroethyl ether	ON2130
U027	108-60-1	Dichloroisopropyl ether	ON2075
U024	111-91-1	Dichloromethoxy ethane	ON2074
U088	84-66-2	Diethyl phthalate	ON2038
U395	5952-26-1	Diethylene glycol, dicarbamate	
U028	117-81-7	Diethylhexyl phthalate	ON2036
U089	56-53-1	Diethylstilbesterol	ON2140
U090	94-58-6	Dihydrosafrole	ON2055
U102	131-11-3	Dimethyl phthalate	ON2039
U103	77-78-1	Dimethyl sulfate	ON2147
U092	124-40-3	Dimethylamine	ON2142
U097	79-44-7	Dimethylcarbamoyl chloride	ON2094
U107	117-84-0	Di-n-octyl phthalate	ON2040

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U111	621-64-7	Di-n-propylnitrosamine	ON2150
U110	142-84-7	Dipropylamine	ON2149
U041	106-89-8	Epichlorohydrin	ON2102
U001	75-07-0	Ethanal	ON2001
U404	121-44-8	Ethanamine, N,N-diethyl-	
U174	55-18-5	Ethanamine, N-ethyl-N-nitroso-	ON2151
U208	630-20-6	Ethane, 1,1,1,2-tetrachloro-	ON2158
U226	71-55-6	Ethane, 1,1,1-trichloro-	ON2161
U209	79-34-5	Ethane, 1,1,2,2-tetrachloro-	ON2159
U227	79-00-5	Ethane, 1,1,2-trichloro-	ON2162
U024	111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	ON2074
U076	75-34-3	Ethane, 1,1-dichloro-	ON2153
U117	60-29-7	Ethane, 1,1'-oxybis-	ON2137
U025	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	ON2130
U067	106-93-4	Ethane, 1,2-dibromo-	ON2152
U077	107-06-2	Ethane, 1,2-dichloro-	ON2154
U131	67-72-1	Ethane, hexachloro-	ON2156
U184	76-01-7	Ethane, pentachloro-	ON2157
U218	62-55-5	Ethanethioamide	ON2160
U394	30558-43-1	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-,methyl ester	
U410	59669-26-0	Ethanimidothioic acid, N,N'-[thiobis(methylimino)carbonyloxy]] bi s-, dimethyl ester	
U173	1116-54-7	Ethanol, 2,2'-(nitrosoimino)bis-	ON2164
U395	5952-26-1	Ethanol, 2,2'-oxybis-, dicarbamate	
U359	110-80-5	Ethanol, 2-ethoxy-	ON2239
U004	98-86-2	Ethanone, 1-phenyl-	ON2010
U042	110-75-8	Ethene, (2-chloroethoxy)-	ON2103
U078	75-35-4	Ethene, 1,1-dichloro-	ON2128
U079	156-60-5	Ethene, 1,2-dichloro-, (E)-	ON2129
U043	75-01-4	Ethene, chloro-	ON2165
U210	127-18-4	Ethene, tetrachloro-	ON2166
U228	79-01-6	Ethene, trichloro-	ON2236
U112	141-78-6	Ethyl acetate	ON2005
U113	140-88-5	Ethyl acrylate	ON2167
U238	51-79-6	Ethyl carbamate (urethane)	ON2089
U117	60-29-7	Ethyl ether	ON2137
U118	97-63-2	Ethyl methacrylate	ON2170

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U119	62-50-0	Ethyl methanesulfonate	ON2171
U067	106-93-4	Ethylene dibromide	ON2152
U077	107-06-2	Ethylene dichloride	ON2154
U359	110-80-5	Ethylene glycol monoethyl ether	ON2239
U115	75-21-8	Ethylene oxide	ON2168
U114	**111-54-6	Ethylenebisdithiocarbamic acid, salts & esters	ON2155
U116	96-45-7	Ethylenethiourea	ON2169
U076	75-34-3	Ethylidene dichloride	ON2153
U120	206-44-0	Fluoranthene	ON2066
U122	50-00-0	Formaldehyde	ON2173
U123	64-18-6	Formic acid	ON2174
U124	110-00-9	Furan	ON2175
U213	109-99-9	Furan, tetrahydro-	ON2178
U125	98-01-1	Furfural	ON2176
U124	110-00-9	Furfuran	ON2175
U206	18883-66-4	Glucopyranose,2-deoxy-2-(3-methyl-3-nitrosoureido)-, D-	ON2179
U126	765-34-4	Glycidylaldehyde	ON2180
U163	70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-	ON2181
U127	118-74-1	Hexachlorobenzene	ON2047
U128	87-68-3	Hexachlorobutadiene	ON2079
U130	77-47-4	Hexachlorocyclopentadiene	ON2112
U131	67-72-1	Hexachloroethane	ON2156
U132	70-30-4	Hexachlorophene	ON2183
U243	1888-71-7	Hexachloropropene	ON2184
U133	302-01-2	Hydrazine	ON2120
U098	57-14-7	Hydrazine, 1,1-dimethyl-	ON2144
U086	1615-80-1	Hydrazine, 1,2-diethyl-	ON2138
U099	540-73-8	Hydrazine, 1,2-dimethyl-	ON2145
U109	122-66-7	Hydrazine, 1,2-diphenyl-	ON2148
U134	7664-39-3	Hydrofluoric acid	ON2185
U134	7664-39-3	Hydrogen fluoride	ON2185
U135	7783-06-4	Hydrogen sulfide	ON2187
U135	7783-06-4	Hydrogen sulfide H ₂ S	ON2187
U096	80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl-	ON2143
U137	193-39-5	Indeno[1,2,3-cd]pyrene	ON2188
U140	78-83-1	Isobutyl alcohol	ON2189
U141	120-58-1	Isosafrole	ON2054
U142	143-50-0	Kepone	ON2118

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U143	303-34-4	Lasiocarpine	ON2190
U144	301-04-2	Lead acetate	ON2006
U145	7446-27-7	Lead phosphate	ON2191
U146	1335-32-6	Lead subacetate	ON2192
U146	1335-32-6	Lead, bis(acetato-O)tetrahydroxytri-	ON2192
U129	58-89-9	Lindane	ON2182
U150	148-82-3	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	ON2015
U015	115-02-6	L-Serine, diazoacetate (ester)	ON2019
U147	108-31-6	Maleic anhydride	ON2177
U148	123-33-1	Maleic hydrazide	ON2141
U149	109-77-3	Malononitrile	ON2193
U071	541-73-1	m-Dichlorobenzene	ON2042
U150	148-82-3	Melphalan	ON2015
U151	7439-97-6	Mercury	ON2194
U152	126-98-7	Methacrylonitrile	ON2195
U092	124-40-3	Methanamine, N-methyl-	ON2142
U029	74-83-9	Methane, bromo-	ON2196
U045	74-87-3	Methane, chloro-	ON2197
U046	107-30-2	Methane, chloromethoxy-	ON2105
U068	74-95-3	Methane, dibromo-	ON2125
U080	75-09-2	Methane, dichloro-	ON2131
U075	75-71-8	Methane, dichlorodifluoro-	ON2126
U138	74-88-4	Methane, iodo-	ON2198
U211	56-23-5	Methane, tetrachloro-	ON2098
U225	75-25-2	Methane, tribromo-	ON2078
U044	67-66-3	Methane, trichloro-	ON2104
U121	75-69-4	Methane, trichlorofluoro-	ON2200
U119	62-50-0	Methanesulfonic acid, ethyl ester	ON2171
U153	74-93-1	Methanethiol	ON2199
U154	67-56-1	Methanol	ON2201
U155	91-80-5	Methapyrilene	ON2202
U247	72-43-5	Methoxychlor	ON2163
U154	67-56-1	Methyl alcohol	ON2201
U029	74-83-9	Methyl bromide	ON2196
U045	74-87-3	Methyl chloride	ON2197
U156	79-22-1	Methyl chlorocarbonate	ON2096
U226	71-55-6	Methyl chloroform	ON2161
U159	78-93-3	Methyl ethyl ketone (MEK)	ON2083

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U160	1338-23-4	Methyl ethyl ketone peroxide	ON2084
U138	74-88-4	Methyl iodide	ON2198
U161	108-10-1	Methyl isobutyl ketone	ON2204
U162	80-62-6	Methyl methacrylate	ON2205
U068	74-95-3	Methylene bromide	ON2125
U080	75-09-2	Methylene chloride	ON2131
U164	56-04-2	Methylthiouracil	ON2206
U010	50-07-7	Mitomycin C	ON2020
U163	70-25-7	MNNG	ON2181
U086	1615-80-1	N,N'-Diethylhydrazine	ON2138
U026	494-03-1	Naphthalenamine, N,N'-bis(2-chloroethyl)-	ON2100
U165	91-20-3	Naphthalene	ON2207
U047	91-58-7	Naphthalene, 2-chloro-	ON2106
U031	71-36-3	n-Butyl alcohol	ON2082
U217	10102-45-1	Nitric acid, thallium(1+) salt	ON2235
U169	98-95-3	Nitrobenzene	ON2057
U173	1116-54-7	N-Nitrosodiethanolamine	ON2164
U174	55-18-5	N-Nitrosodiethylamine	ON2151
U172	924-16-3	N-Nitrosodi-n-butylamine	ON2080
U176	759-73-9	N-Nitroso-N-ethylurea	ON2091
U177	684-93-5	N-Nitroso-N-methylurea	ON2092
U178	615-53-2	N-Nitroso-N-methylurethane	ON2090
U179	100-75-4	N-Nitrosopiperidine	ON2214
U180	930-55-2	N-Nitrosopyrrolidine	ON2215
U194	107-10-8	n-Propylamine	ON2224
U087	3288-58-2	O,O-Diethyl S-methyl dithiophosphate	ON2139
U048	95-57-8	o-Chlorophenol	ON2107
U070	95-50-1	o-Dichlorobenzene	ON2041
U328	95-53-4	o-Toluidine	
U222	636-21-5	o-Toluidine hydrochloride	ON2029
U115	75-21-8	Oxirane	ON2168
U041	106-89-8	Oxirane, (chloromethyl)-	ON2102
U126	765-34-4	Oxiranecarboxyaldehyde	ON2180
U182	123-63-7	Paraldehyde	ON2217
U197	106-51-4	p-Benzoquinone	ON2068
U039	59-50-7	p-Chloro-m-cresol	ON2101
U072	106-46-7	p-Dichlorobenzene	ON2043
U093	60-11-7	p-Dimethylaminoazobenzene	ON2027

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U183	608-93-5	Pentachlorobenzene	ON2058
U184	76-01-7	Pentachloroethane	ON2157
U185	82-68-8	Pentachloronitrobenzene (PCNB)	ON2059
F027	87-86-5	Pentachlorophenol	ON2218
U161	108-10-1	Pentanol, 4-methyl-	ON2204
U187	62-44-2	Phenacetin	ON2003
U188	108-95-2	Phenol	ON2049
U411	114-26-1	Phenol, 2-(1-methylethoxy)-,methylcarbamate	
F027	58-90-2	Phenol, 2,3,4,6-tetrachloro-	ON2219
F027	95-95-4	Phenol, 2,4,5-trichloro-	ON2220
F027	88-06-2	Phenol, 2,4,6-trichloro-	ON2221
U081	120-83-2	Phenol, 2,4-dichloro-	ON2132
U101	105-67-9	Phenol, 2,4-dimethyl-	ON2146
U082	87-65-0	Phenol, 2,6-dichloro-	ON2133
U048	95-57-8	Phenol, 2-chloro-	ON2107
U089	56-53-1	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-	ON2140
U039	59-50-7	Phenol, 4-chloro-3-methyl-	ON2101
U170	100-02-7	Phenol, 4-nitro-	ON2212
U052	1319-77-3	Phenol, methyl-	ON2109
F027	87-86-5	Phenol, pentachloro-	ON2218
U132	70-30-4	Phenol,2,2'-methylenebis[3,4,6-trichloro-	ON2183
U145	7446-27-7	Phosphoric acid, lead(2+) salt (2:3)	ON2191
U087	3288-58-2	Phosphorodithioic acid, O,O-diethyl S-methyl ester	ON2139
U189	1314-80-3	Phosphorus sulfide	ON2222
U190	85-44-9	Phthalic anhydride	ON2035
U179	100-75-4	Piperidine, 1-nitroso-	ON2214
U170	100-02-7	p-Nitrophenol	ON2212
U192	23950-58-5	Pronamide	ON2127
U066	96-12-8	Propane, 1,2-dibromo-3-chloro-	ON2124
U083	78-87-5	Propane, 1,2-dichloro-	ON2134
U027	108-60-1	Propane, 2,2'-oxybis[2-chloro-	ON2075
U171	79-46-9	Propane, 2-nitro-	ON2213
U149	109-77-3	Propanedinitrile	ON2193
F027	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	ON2227
U373	122-42-9	Propham	
U411	114-26-1	Propoxur.	
U083	78-87-5	Propylene dichloride	ON2134
U387	52888-80-9	Prosulfocarb	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U353	106-49-0	p-Toluidine	
U196	110-86-1	Pyridine	ON2228
U191	109-06-8	Pyridine, 2-methyl-	ON2223
U180	930-55-2	Pyrrolidine, 1-nitroso-	ON2215
U200	50-55-5	Reserpine	ON2229
U201	108-46-3	Resorcinol	ON2046
U202	**81-07-2	Saccharin, & salts	ON2065
U203	94-59-7	Safrole	ON2053
U204	7783-00-8	Selenious acid	ON2230
U204	7783-00-8	Selenium dioxide	ON2230
U205	7488-56-4	Selenium sulfide	ON2232
U205	7488-56-4	Selenium sulfide SeS ₂	ON2232
F027	93-72-1	Silvex (2,4,5-TP)	ON2227
U206	18883-66-4	Streptozotocin	ON2179
U189	1314-80-3	Sulfur phosphide	ON2222
U103	77-78-1	Sulfuric acid, dimethyl ester	ON2147
U210	127-18-4	Tetrachloroethylene	ON2166
U213	109-99-9	Tetrahydrofuran	ON2178
U216	7791-12-0	Thallium chloride TlCl	ON2234
U214	563-68-8	Thallium(I) acetate	ON2007
U215	6533-73-9	Thallium(I) carbonate	ON2095
U216	7791-12-0	Thallium(I) chloride	ON2234
U217	10102-45-1	Thallium(I) nitrate	ON2235
U218	62-55-5	Thioacetamide	ON2160
U410	59669-26-0	Thiodicarb	
U153	74-93-1	Thiomethanol	ON2199
U244	137-26-8	Thioperoxydicarbonic diamide[(H,N)C(S)],S ₂ , tetramethyl-	ON2076
U409	23564-05-8	Thiophanate-methyl	
U219	62-56-6	Thiourea	ON2093
U244	137-26-8	Thiram	ON2076
U220	108-88-3	Toluene	ON2050
U223	26471-62-5	Toluene diisocyanate	ON2044
U221	25376-45-8	Toluenediamine	ON2121
U389	2303-17-5	Triallate	
U228	79-01-6	Trichloroethylene	ON2236
U121	75-69-4	Trichloromonofluoromethane	ON2200
U404	121-44-8	Triethylamine	
U235	126-72-7	Tris(2,3-dibromopropyl) phosphate	ON2225

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U236	72-57-1	Trypan blue	ON2209
U237	66-75-1	Uracil mustard	ON2237
U176	759-73-9	Urea, N-ethyl-N-nitroso-	ON2091
U177	684-93-5	Urea, N-methyl-N-nitroso-	ON2092
U043	75-01-4	Vinyl chloride	ON2165
U248	** 81-81-2	Warfarin, & salts, when present at concentrations of 0.3% or less	ON2009
U239	1330-20-7	Xylene	ON2045
U200	50-55-5	Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,(3beta,16beta,17alpha, 18beta,20alpha)-	ON2229
U249	1314-84-7	Zinc phosphide Zn_3P_2 , when present at concentrations of 10% or less	ON2238

**

CAS number given for parent compound only

APPENDIX 7

Schedule 3 - Severely Toxic Contaminants

Excerpt from the Regulation prepared for purposes of convenience only,
and for accurate reference recourse should be had to the official volumes.

Appendix 7 - Schedule 3 (Severely Toxic Contaminants)

<u>Reference Number</u>	<u>Contaminant</u>
ON3001	Aflatoxin
ON3002	2,3,7,8-Tetrachlorodibenzo-p-dioxin
ON3003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
ON3004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
ON3005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
ON3006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
ON3007	2,3,7,8-Tetrachlorodibenzo furan

APPENDIX 8

Schedule 4 - Leachate Toxic Criteria

Excerpt from the Regulation prepared for purposes of convenience only,
and for accurate reference recourse should be had to the official volumes.

Appendix 8 - Schedule 4 (Leachate Toxic Criteria)

CONTAMINANT	CONCENTRATION (mg/l)
Aldicarb	0.9
Aldrin + Dieldrin	0.07
Arsenic	2.5
Atrazine + N-dealkylated metabolites (Weedex)	0.5
Azinphos-methyl	2.0
Barium	100.0
Bendiocarb	4.0
Benzene	0.5
Benzo(a)pyrene	0.001
Boron	500.0
Bromoxynil	0.5
Cadmium	0.5
Carbaryl/Sevin/1-Naphthyl-N methyl carbamate	9.0
Carbofuran	9.0
Carbon tetrachloride (Tetrachloromethane)	0.5
Chlordane	0.7
Chlorobenzene (Monochlorobenzene)	8.0
Chloroform	10.0
Chlorpyrifos	9.0
Chromium	5.0
Cresol (Mixture - total of all isomers, when isomers cannot be differentiated)	200.0
m-Cresol	200.0
o-Cresol	200.0
p-Cresol	200.0
Cyanazine	1.0
Cyanide	20.0
2,4-D / (2,4-dichlorophenoxy)acetic acid	10.0
2,4-DCP (2,4-Dichlorophenol)	90.0
DDT (total isomers)	3.0
Diazinon/Phosphordithioic acid, o,o-diethyl o-(2-isopropyl 6-methyl-4-pyrimidinyl)ester	2.0
Dicamba	12.0
1,2-Dichlorobenzene (o-Dichlorobenzene)	20.0
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.5
1,2-Dichloroethane (Ethylene dichloride)	0.5
1,1-Dichloroethylene (Vinylidene chloride)	1.4
Dichloromethane (also see - methylene chloride)	5.0
Diclofop-methyl	0.9
Dimethoate	2.0
2,4-Dinitrotoluene	0.13
Dinoseb	1.0
Dioxin & Furan	0.0000015*
Diquat	7.0
Diuron	15.0

Endrin	0.02
Fluoride	150.0
Glyphosate	28.0
Heptachlor + Heptachlor epoxide	0.3
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Hexachloroethane	3.0
Lead	5.0
Lindane	0.4
Malathion	19.0
Mercury	0.1
Methoxychlor/1,1,1-Trichloro-2,2-bis(p-methoxyphenyl) ethane	90.0
Methyl ethyl ketone / Ethyl methyl ketone	200.0
Methyl Parathion	0.7
Methylene chloride / Dichloromethane	5.0
Metolachlor	5.0
Metribuzin	8.0
NDMA	0.0009
Nitrate + Nitrite (as Nitrogen)	1,000.0
Nitrilotriacetic acid (NTA)	40.0
Nitrobenzene	2.0
Paraquat	1.0
Parathion	5.0
PCBs	0.3
Pentachlorophenol	6.0
Phorate	0.2
Picloram	19.0
Pyridine	5.0
Selenium	1.0
Silver	5
Simazine	1.0
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	28.0
2,4,5-TP/ Silvex/ 2-(2,4,5-Trichlorophenoxy)propionic acid	1.0
Temephos	28.0
Terbufos	0.1
Tetrachloroethylene	3.0
2,3,4,6-Tetrachlorophenol /(2,3,4,6-TeCP)	10.0
Toxaphene	0.5
Triallate	23.0
Trichloroethylene	5.0
2,4,5-Trichlorophenol (2,4,5-TCP)	400.0
2,4,6-Trichlorophenol (2,4,6-TCP)	0.5
Trifluralin	4.5
Uranium	10.0
Vinyl chloride	0.2

* Toxic equivalent (TEQ)

APPENDIX 9

Ministry of the Environment - Regional and District Offices

Appendix 9 - Ministry of the Environment (Regional and District Offices)

REGIONAL OFFICE	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE	AREA OFFICE	AREA OFFICE
<u>SOUTHWESTERN</u> 659 Exeter Road London, ON. N6E 1L3 (519) 873-5000	<u>LONDON</u> 659 Exeter Road London, ON. N6E 1L3 (519) 873-5000	<u>BARRIE</u> 54 Cedar Pointe Dr. Unit 1203 Barrie, ON. L4N 5R7 (705) 739-6441	<u>SARNIA</u> 1094 London Road Sarnia ON. N7S 1P1 (519) 336-4030	<u>OWEN SOUND</u> 1580 20th St. E., P.O. Box 967 Owen Sound, ON. N4K 6H6 (519) 371-2901	<u>WINDSOR</u> 250 Windsor Ave. 6th Fl. Windsor, ON. N9A 6V9 (519) 254-2546
<u>WEST-CENTRAL</u> 119 King St. W. 12th Fl. Hamilton, ON. L8P 4Y7 (905) 521-7640	<u>HAMILTON</u> 119 King St. W. 9th Fl. Hamilton, ON. L8P 4Y7 (905) 521-7650	<u>GUELPH</u> 1 Stone Road W. 4 th Floor Guelph, ON. N1G 4Y2 (519) 826-4255	<u>NIAGARA</u> 301 St. Paul Street 9th Floor St. Catharines, ON. L2R 3M8 (905) 704-3900		
<u>CENTRAL</u> 5775 Yonge Street 8th Floor North York, ON. M2M 4J1 (416) 326-6700	<u>TORONTO</u> 5775 Yonge Street 9th Floor North York, ON. M2M 4J1 (416) 326-6700	<u>HALTON-PEEL</u> 4145 North Service Rd. Suite 300 Burlington, ON. L7L 6A3 (905) 319-3847	<u>YORK DURHAM</u> 230 Westney Road S., 5th Floor Ajax, ON. L1S 7J5 (905) 427-5600		
<u>EASTERN</u> 133 Dalton St. P.O. Box 820 Kingston, ON. K7L 4X6 (613) 549-4000	<u>KINGSTON</u> 133 Dalton St. P.O. Box 820 Kingston, ON. K7L 4X6 (613) 549-4000 x2692	<u>OTTAWA</u> 2435 Holly Lane Ottawa, ON. K1V 7P2 (613) 521-3450	<u>PETERBOROUGH</u> 300 Water St. 2 nd Floor Peterborough, ON. K9J 7M3 (705) 755-4300	<u>BELLEVILLE</u> Belleville Mall 470 Dundas Street East Belleville, ON. K8N 1G1 (613) 962-9208	<u>CORNWALL</u> 113 Amelia St., 2nd Floor Cornwall, ON. K6H 3P1 (613) 933-7402
<u>NORTHERN</u> 435 James St. S., 3rd Floor, Ste. 331 Thunder Bay, ON. P7E 6S7 (807) 475-1205	<u>THUNDER BAY</u> 435 James St. S. 3rd Floor, Ste. 331 Thunder Bay, ON. P7E 6S7 (807) 475-1315	<u>SUDBURY</u> 199 Larch St., Ste. 1101 Sudbury, ON. P3E 5P9 (705) 564-3237	<u>TIMMINS</u> Ontario Gov't. Complex Hwy. 101 East P.O. Bag 3080 South Porcupine, ON. (705) 235-1500	<u>KENORA</u> 808 Robertson St. P.O. Box 5150 Kenora, ON. P9N 1X9 (807) 468-2718	<u>NORTH BAY</u> 447 McKeown Ave., Ste. 103 North Bay, ON. P1B 9S9 (Includes Parry Sound area) (705) 497-6865
					<u>SAULT STE. MARIE</u> 70 Foster Dr., Ste. 610 Sault Ste. Marie, ON. P6A 6V4 (705) 949-4640


For emergencies, please contact the Spills Action Centre at 1-800-268-6060.

November 1, 2001

APPENDIX 10

Generator Registration Report and Completed Examples

Appendix 10 - Blank Generator Registration Report

	Ministry of the Environment	Ministère de l'Environnement	<h2 style="margin: 0;">Generator Registration Report</h2> <h3 style="margin: 0;">Rapport d'inscription du producteur</h3>				
<p>Please Mail completed form to: Environmental Monitoring & Reporting Branch, Ministry of the Environment, 135 St. Clair Avenue West, AREA "M" Toronto, ON M4V 1P5</p> <p>Veillez faire parvenir le formulaire dûment rempli à l'adresse suivante: Direction de la surveillance environnementale, Ministère de l'Environnement, 135 avenue St. Clair ouest, SECTEUR M Toronto, ON M4V 1P5</p>							
<p>Part 1 - Generator Identification / Partie 1 - Identification du producteur</p>							
This report is / Le présent rapport constitue :		Generator Registration Number N° d'inscription du producteur					
1. <input type="checkbox"/> an initial generator registration report / un premier rapport d'inscription du producteur or / ou		<input style="width: 100px; height: 15px;" type="text"/>					
2. <input type="checkbox"/> a revision - enter Ontario Generator Registration Number / une révision - veuillez donner le numéro d'inscription du producteur (Ontario)							
3. For generators located outside of Ontario, enter Registration/Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription / d'identification attribué par les autorités locales en matière d'environnement.		<input style="width: 100px; height: 15px;" type="text"/>					
Name of Generator (Enter the corporate name or, if a proprietorship, the name of the principal(s). If the generator intends to carry on business under a separate name or style, this should also be entered.) / Nom du producteur (Veuillez inscrire la dénomination sociale ou, s'il s'agit d'une société en nom collectif ou d'une société à propriétaire unique, le nom du (des) principal (principaux) propriétaire(s). Si le producteur envisage d'exploiter une entreprise sous une dénomination ou un nom distinct, veuillez également le noter.)							
4. Name / Nom							
5. Address / Adresse							
6. Municipality / Municipalité		Province / State Province / Etat	Postal Code / Code Postal				
7. Site location / Emplacement des installations							
8. Municipality / Municipalité		Province / State Province / Etat	Postal Code / Code Postal				
9. Name of Contact / Nom de la personne à contacter			Telephone No. / N° de tél.				
10. North American Industry Classification System (NAICS) Codes for Site noted in Section 7. / Le Système de classification des industries de l'Amérique du Nord (SCIAN) pour les installations dont l'adresse figure au N° 7							
<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>							
11. Total number of wastes to be registered with this report / Nombre total de déchets à inscrire dans ce rapport							
12. Name of Company Official / Nom du représentant de la compagnie		13. Position / Poste					
14. Signature / Signature		15. Date / Date					
16. Ministry Use Only / Réservé au Ministère		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">County Code / Code de comté</td> </tr> <tr> <td style="padding: 2px;">Regional/ District Code / Code de région/district</td> </tr> <tr> <td style="padding: 2px;">Municipal Code / Code de municipalité</td> </tr> <tr> <td style="padding: 2px;">Inter City Tie Line / Ligne privée interurbane</td> </tr> </table>		County Code / Code de comté	Regional/ District Code / Code de région/district	Municipal Code / Code de municipalité	Inter City Tie Line / Ligne privée interurbane
County Code / Code de comté							
Regional/ District Code / Code de région/district							
Municipal Code / Code de municipalité							
Inter City Tie Line / Ligne privée interurbane							

Part 2 - Waste Identification / Partie 2 - Nature des déchets

(Please complete one page 2 for each waste stream to be registered)
(Veuillez photocopier cette page et en remplir une pour chaque flux de déchets à inscrire.)

1. Description of Waste / Description des déchets

2. Description of generating process / Description du procédé de production

3. Waste quantity generated or accumulated / Quantité de déchets produite ou accumulée

Kg/mo. / kg/mois

4. Primary characteristic / Caractéristique principale

Analytical data (if applicable). If the data has been estimated, attach separate sheet outlining basis for the estimate. / Données analytiques (le cas échéant). Si les données sont estimatives, veuillez annexer une feuille à part pour décrire sur quoi reposent les estimations.

Name of laboratory (if applicable). / Laboratoire (le cas échéant)

Waste Class Hazardous Waste Number Specific Gravity . Physical State (Solid - S, Liquid - L, Gas - G)
Catégorie de déchets Numéro de déchets dangereux Masse volumique État (Solide -S, liquide - L, gaz - G)

For Ministry Use only / Réservé au Ministère

5. Secondary Characteristic / Caractéristique secondaire

Analytical data (if applicable) / Données analytiques (le cas échéant).

Part 3 - Waste Management / Partie 3 - Gestion des déchets

1. Principal Intended Receiver / Réceptionnaire principal prévu

Company name and address / Nom et adresse de la compagnie

Receiver No. / N° du réceptionnaire

Municipality:
Municipalité:

Province/State:
Province / Etat:

Postal Code:
Code Postal:

2. Principal Intended Carrier / Transporteur principal prévu

Company name and address / Nom et adresse de la compagnie



MOE Carrier No.
N° du MEO du transporteur

Municipality:
Municipalité:

Province/State:
Province / Etat:

Postal Code:
Code Postal:

Appendix 10 - Example of Completed Generator Registration Report

		Ministry of the Environment Ministère de l'Environnement	<h2 style="text-align: center;">Generator Registration Report</h2> <h3 style="text-align: center;">Rapport d'inscription du producteur</h3>					
<p>Please Mail completed form to: Environmental Monitoring & Reporting Branch, Ministry of the Environment, 135 St. Clair Avenue West, AREA "M" Toronto, ON M4V 1P5</p> <p>Veillez faire parvenir le formulaire dûment rempli à l'adresse suivante: Direction de la surveillance environnementale, Ministère de l'Environnement, 135 avenue St. Clair ouest, SECTEUR M Toronto, ON M4V 1P5</p>								
<p>Part 1 - Generator Identification / Partie 1 - Identification du producteur</p>								
This report is / Le présent rapport constitue :		Generator Registration Number N° d'inscription du producteur						
1. <input checked="" type="checkbox"/> an initial generator registration report / un premier rapport d'inscription du producteur or / ou		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>						
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3. For generators located outside of Ontario, enter Registration/Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription / d'identification attribué par les autorités locales en matière d'environnement.		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>						
Name of Generator (Enter the corporate name or, if a proprietorship, the name of the principal(s). If the generator intends to carry on business under a separate name or style, this should also be entered.) / Nom du producteur (Veuillez inscrire la dénomination sociale ou, s'il s'agit d'une société en nom collectif ou d'une société à propriétaire unique, le nom du (des) principal (principaux) propriétaire(s). Si le producteur envisage d'exploiter une entreprise sous une dénomination ou un nom distinct, veuillez également le noter.)								
4. Name / Nom ABC COMPANY LIMITED								
5. Address / Adresse 123 ANY STREET								
6. Municipality / Municipalité TORONTO		Province / State Province / Etat ONTARIO	Postal Code / Code Postal A1B 2C3					
7. Site location / Emplacement des installations 123 ANY STREET								
8. Municipality / Municipalité TORONTO		Province / State Province / Etat ONTARIO	Postal Code / Code Postal A1B 2C3					
9. Name of Contact / Nom de la personne à contacter JOHN DOE			Telephone No. / N° de tél. (416) 555-1234					
10. North American Industry Classification System (NAICS) Codes for Site noted in Section 7. / Le Système de classification des industries de l'Amérique du Nord (SCIAN) pour les installations dont l'adresse figure au N° 7								
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>								
11. Total number of wastes to be registered with this report / Nombre total de déchets à inscrire dans ce rapport 1 (ONE)								
12. Name of Company Official / Nom du représentant de la compagnie JOHN DOE		13. Position / Poste PLANT ENGINEER						
14. Signature / Signature 		15. Date / Date JANUARY 15, 2002						
16. Ministry Use Only / Réservé au Ministère		<table border="1" style="width: 100%;"> <tr> <td>County Code / Code de comté</td> </tr> <tr> <td>Regional/ District Code / Code de région/district</td> </tr> <tr> <td>Municipal Code / Code de municipalité</td> </tr> <tr> <td>Inter City Tie Line / Ligne privée interurbaine</td> </tr> </table>			County Code / Code de comté	Regional/ District Code / Code de région/district	Municipal Code / Code de municipalité	Inter City Tie Line / Ligne privée interurbaine
County Code / Code de comté								
Regional/ District Code / Code de région/district								
Municipal Code / Code de municipalité								
Inter City Tie Line / Ligne privée interurbaine								

Part 2 - Waste Identification / Partie 2 - Nature des déchets

(Please complete one page 2 for each waste stream to be registered)
(Veuillez photocopier cette page et en remplir une pour chaque flux de déchets à inscrire.)

1. Description of Waste / Description des déchets

SPENT PETROLEUM DISTILLATES (VARSOL)

2. Description of generating process / Description du procédé de production

CLEANING OF EQUIPMENT

3. Waste quantity generated or accumulated / Quantité de déchets produite ou accumulée

Kg/mo. / kg/mois

4. Primary characteristic / Caractéristique principale

IGNITABLE

Analytical data (if applicable). If the data has been estimated, attach separate sheet outlining basis for the estimate. / Données analytiques (le cas échéant). Si les données sont estimatives, veuillez annexer une feuille à part pour décrire sur quoi reposent les estimations.

FLASH POINT (TAG CLOSED CUP) = 45°C

Name of laboratory (if applicable). / Laboratoire (le cas échéant)

MSDS

Waste Class
Catégorie de déchets

Hazardous Waste Number

Numéro de déchets dangereux

Specific Gravity

Masse volumique

.

Physical State (Solid - S,
Liquid - L, Gas - G)
État (Solide -S,
liquide - L, gaz - G)

For Ministry Use only / Réservé au Ministère

5. Secondary Characteristic / Caractéristique secondaire

Analytical data (if applicable) / Données analytiques (le cas échéant).

Part 3 - Waste Management / Partie 3 - Gestion des déchets

1. Principal Intended Receiver / Réceptionnaire principal prévu

Company name and address / Nom et adresse de la compagnie
WASTE RECOVERY LTD.
123 RECOVERY AVENUE

Municipality: HAMILTON
Municipalité:

Province/State: ONTARIO
Province / Etat:

Receiver No. / N° du réceptionnaire

Postal Code: L1L 2L3
Code Postal:

2. Principal Intended Carrier / Transporteur principal prévu

Company name and address / Nom et adresse de la compagnie
ZIPPY TRANSPORT LTD.
321 CARRIER DRIVE

Municipality: TORONTO
Municipalité:

Province/State: ONTARIO
Province / Etat:

Postal Code: M1M 2M3
Code Postal:

MOE Carrier No.
N° du MEO du transporteur

APPENDIX 11

Paying the Generator Registration Fee

Appendix 11 - Paying the Generator Registration Fee

The Hazardous Waste Information Network (HWIN) that will track the movement of hazardous waste and collect the fees associated with its movement is currently being developed. Based on the final design of the system, some changes to this Appendix may occur. It is the Ministry's intent to ensure that the final system has reasonable flexibility in accepting fee payment.

Beginning on January 1, 2002, there is an annual fee associated with Generator Registration. The details of determining and paying this fee are described below. Please note, however, due to first year implementation and transitional issues there are some differences in the fee payment schedules for 2002. Please review the section at the end of this Appendix to see if any of these differences applies to your situation.

When subject waste is initially generated at a facility, Generator Registration must be promptly completed and remains valid until February 15 of the following year. Once a facility has been initially registered, Generator Registration is required each year and must be completed between January 1 and February 15. For each Annual Generator Registration Report, including the initial Annual Generator Registration Report, the required fee is the sum of:

- (a) \$50 annual flat fee;
- (b) \$5 per manifest used during the calendar year in which the Report is submitted; and
- (c) \$10 per tonne of hazardous waste generated during the calendar year.

All sites that generate subject waste must pay the \$50 annual flat fee upon initial annual registration. The only generators which are exempt from paying a Generator Registration Fee are:

- municipal household hazardous waste facilities operated by or for a municipality where the subject wastes being registered are limited to household hazardous waste received at the facility;
- contaminated sites where subject waste is being registered result from site remediation or contamination;
- or
- sites requiring emergency Generator Registration

The manifest and tonnage components of the fee are variable and payment options are provided to reflect individual unique circumstances of each generator.

The tonnage component of the fee applies to hazardous waste only and is prorated for partial tonnages. No tonnage component is applicable to temporary on-site storage of hazardous wastes, liquid industrial waste nor to hazardous waste recycled at a recycling facility specified on the Ministry's website. Recycling facilities identified on the website are considered as recycling only in relation to the tonnage component of the fee and should not be confused with any other Ministry provisions related to recycling. The tonnage component is not applicable to hazardous waste, including stored, mixed, treated or processed hazardous waste, that has been previously subject to the tonnage component. **The tonnage component applies to all hazardous waste disposed onsite.** On-site disposal includes combustion, discharge to any final waste water treatment facility, discharge to sanitary sewer, etc. See Figure 2 in this manual for clarification of which waste streams are subject to registration and, as a result, the subsequent fee.

Director's Estimate

The Director will provide generators with an estimate of the total annual fee payable to the Ministry under this program. The purpose of this estimate is to provide generators with information on their approximate financial obligations under this program.

The actual amount a generator will be required to pay under this program will depend on the number of shipments made annually and the quantity of hazardous waste generated, which may vary significantly from the Director's Estimate. Since the number of manifests to be used and the tonnage of hazardous waste to be generated during the year is not known at the time of registration, these amounts are estimated by the Director prior to the calendar year. The estimate may be based upon the activities of the generator in previous years or on the Director's opinion of activities that will take place in the current calendar year for the generator. The Director's Estimate will also include any outstanding fee amount/credit from the previous calendar year, if applicable.

Fee Payment Option 1: Full Annual Payment

The full Generator Registration fee may be paid at the time of annual registration. If choosing this payment option, the fee payable is the sum of the \$50 flat fee plus the estimate of the number of manifests to be used and the estimated tonnage of hazardous waste to be generated during the calendar year (Director's Estimate). This estimate can be obtained electronically by an authorized person accessing the Generator Registration records. The Director may revise his estimate at any time before payment is made by the generator.

If the number of waste manifests and quantity of hazardous waste shipped through the year exceeds the Director's Estimate, you will be required to provide additional funds to allow shipment of the remaining waste.

Initial Fee payment on or before Feb 15 = \$50 + Director's Estimate.

Fee Payment Option 2: Throughout the Year

If using this method, the Director's Estimate is not used in remitting the fee. The \$50 flat fee must be paid at the time of annual registration, however, the manifest and the tonnage components of the fee are payable according to the payment option chosen. Manifest and tonnage fees must be paid before any waste is shipped. Please see the HWIN website for interval payment options, details and special provisions for 2002.

Initial Fee Payment on or before Feb. 15 = \$50
Subsequent Fee Payments = See HWIN Website

Methods of Fee Payment

Please see the HWIN website for details.

Reconciliation of Fees

The Ministry does not expect there to be much end of year reconciliation necessary.

Where the fee paid for the year is less than the actual fee owed, the Director shall add the difference to the estimated fee for the next calendar year or may, by a notice in writing, require the generator to pay the difference forthwith.

Where the fee paid for the year is greater than the actual fee owed, the Director shall credit the difference to the next calendar year.

Special Provisions for Fee Payments for the 2002 Calendar Year

For the calendar year of 2002, a few differences have been incorporated with regard to paying Generator Registration fees.

In December of 2001, each registered generator should have received notification from the Ministry about the new requirement for annual Generator Registration and the associated fee. A second letter will also have been forwarded to each registered generator providing the Director's estimate of the manifest and tonnage components of the Generator Registration fee for the 2002 calendar year.

Generator Registration for the calendar year of 2002 is February 15, 2002 and is also the final date to submit the flat Generator Registration Fee of \$50. There is no difference in the registration and flat fee payment date for the year 2002 or for other years. The difference is with the payment methods and dates of the variable portion of the Generator Registration Fee. The variable portion of the Generator Registration Fee, which consist of the manifest and tonnage components, can be paid according to the description provided below for the payment option chosen.

Fee Payment Option 1 for Calendar Year 2002: Full Annual Payment

If choosing to pay the full Generator Registration fee, the mandatory fee payable at the time of annual registration is the \$50 flat fee which must be completed by February 15, 2002. The balance of the fee identified in the Director's Estimate provided to the generator would then need to be paid by March 15, 2002. Of course the Director's Estimate can also be paid along with the \$50 flat fee at the time of registration, but the option has been provided to delay this portion of the fee until March 15, 2002.

If the number of waste manifests and quantity of hazardous waste shipped through the year exceeds the Director's estimated amount, you will be required to provide additional funds to allow shipment of the remaining waste.

Initial Fee payment on or before Feb. 15 = \$50

Variable Component of Fee payment on or before March 15 = Director's Estimate

Fee Payment Option 2 for Calendar Year 2002: Throughout the Year

The \$50 base fee is due on registration. Registration must be completed by February 15th. During the first year of the program, there will be a transition from paper manifesting to electronic manifesting in the first quarter of 2002. In recognition of this transition, the estimate of the variable components of the charge - the manifest and tonnage components - payable for the period January 1, 2002 to March 31, 2002 was calculated based on your activity from January 1, 2001 to March 31, 2001. It must be paid in full by March 15, 2002. After that date, the other fee payment options outlined in the "Registration Guidance Manual for Generators of Liquid Industrial and Hazardous Waste" will be available to generators.

Initial Fee Payment on or before Feb. 15 = \$50

Variable Component of Fee payment on or before March 15 = 1st Quarter Director's Estimate

Subsequent Fee Payments = See HWIN Website