## Waste Management Industry Survey: Business Sector, 2012

#### Confidential when completed.

Si vous préférez ce questionnaire en français, veuillez nous appeler au numéro sans frais suivant: 1-866-445-4323.

Plea	se provide a company e-mail address.
0009	Email address
	se verify the business name, address and contact e, and correct where needed.
0001	Legal name
0002	Operating name
0021	C/O
0004	Address
0005	City
0006	Province/Territory 0007 Postal code

#### Introduction

This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19. COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.

#### Purpose of the survey

This survey collects information that will help Canadians understand the contributions made by the waste management industry to Canada's economy and environment. The results with assist businesses in the industry as well as public policy millions to make sound decisions based on data that apply specifically to the waste management industry. **Statistics Canal's also conducting a survey of business sector waster management for 2012.** Together these surveys will provide a 'comprehensive picture of waste management in Canad's. Your information may also be used by Statistics Canada for on er statistical and research purposes, in conformity with the mandate.

#### Confidentiality

The Statistics Act protects the confidentiality of information collected by Statistics Canada.

#### Data-sharing agreeine its

To reduce respond nt burgen, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes.

Information on confidentiality, data-sharing agreements and record linkages can be found on the last page of this questionnaire.

#### Fax or e-mail transmission disclosure

Statistics Canada advises you that there could be a risk of disclosure during the transmission of information by facsimile or e-mail. However, upon receipt, Statistics Canada will provide the guaranteed level of protection afforded all information collected under the authority of the *Statistics Act*.

#### nuviries

If you require assistance in completing this questionnaire or , ou have any questions or comments regarding this survey, please refer to the Guide found at the end of this questionnaire, or contact:

#### **Statistics Canada**

Telephone (toll-free): **1-866-445-4323** E-mail: <u>enviro-waste-bus@statcan.gc.ca</u>

In all correspondence concerning this questionnaire, please quote the identification number that appears on the address label.

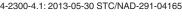
#### Coverage

Please include in this questionnaire the data for the establishment identified above.

#### IMPORTANT:

Please read the Guide at the end of the questionnaire before answering. If your response for an item is zero, please write "0" in the corresponding box rather than leaving the cell blank. Where a response in dollars is requested, please answer in Canadian Dollars.

Please return the completed questionnaire to Statistics Canada in the enclosed envelope within 30 days of receipt. If you are unable to do so, kindly inform our office of the expected completion date.





Sect	tion 1 - Business Information
Bus	iness type
1.1	This questionnaire should be completed for this company's operation in one province/territory only. If this company provides waste management services in more than one province/territory, a separate report for the other provinces/territories in which this company operates should be filled out. You may wish to photocopy this questionnaire or you may call us toll-free at 1-866-445-4323 to request additional questionnaires. Province/territory for which this report applies:
1.2	Did this company provide waste management services in more than one province/territory in 2012?         102       Yes ► Go to question 1.3         No ► Go to question 1.4
1.3	Please indicate the other provinces/territories in which this company provides waste managen and services and for which you will be returning reports. Mark all that apply.         121       N. L.       123       N. S.       125       Que.       127       Man.       129       Alta.       101       Y. T.       133       Nvt.         122       P. E. I.       124       N. B.       126       Ont.       128       Sask.       130       B. C       132       N. W. T.
1.4	
	Other waste management activities or services
	<sup>116</sup> Sewage treatment and containment
	<sup>117</sup> Other (please specify)

Reporting period
1.5       Financial information should be reported for this company's most recent fiscal year that ended at any time between April 1, 2012 and March 31, 2013.         Year       Month       Day         Year       Month       Day         Specify company's fiscal year       Start:
Section 2 - Collection/transportation of non-hazardous waste (garbage), recyclables, and organic material
For businesses engaged in only <u>hazardous</u> waste management activities/services, please proceed to Section 6: Financial and employment information.
Collection/transportation of non-hazardous waste (garbage)
<ul> <li>In 2012, did this company provide or sub-contract services for the collection and/or transportation of non-hazardous waste to a landfill, incinerator/energy from waste facility, residual wast, processor or a transfer station?</li> <li><sup>201</sup> Yes ► Go to question 2.2</li> <li>No ► Go to question 2.3</li> </ul>
2.2 Please specify the name(s) of the facility(ies) where waste was taken. Include only final destinations such as landfills, incinerators/energy from waste facilities, residual waste processors, etc. Do not specify transfer stations unless it is the final destination for waste collected/transported by this company.
255
256
257
258
Collection/transportation of non-hazardous recyclable materials
2.3 In 2012, did this company collect/transport non-hazardous recyclable materials?
<sup>212</sup> Yes ► Go to question 2.4 No ► Go to question 2.5
2.4 Please specify the normality (is) of the facility (ies) where the recyclable materials were taken.
259
260
261
262

Collecti	ion/transpor	tation of org	anic ma	terials				
2.5 In 20	012, did this comp	oany collect/trans	port organi	c materials for	processing (e.g.	., composting,	anaerobic dig	estion)?
246	Yes 🕨 Go to q	question 2.6		No 🕨	Go to section 3			
2.6 Plea	ase specify the na	ame(s) of the faci	lity(ies) wh	ere the organi	c materials wer	e processed.		
263								
264								
265								
266							1	
Section	3 - Waste div	version: Orga	nic mat	erial proce	essing and re	ecycling	>	
Organio	: material pro	ocessing (con	nposting	g, anaerob	ic digestion			
		pany own and/or s or sites where or				als w are proce	essed?	
327		complete the follow	-		Go to quesuon	3 3		
16			-		do lo question	0.0		
		g quantities in met t of measure used		▶ 367				
		antities of food wa istmas trees and p		rials from sour	ce separated or	ganics progra	ms (SSO), lea	f and yard
			R	5		of materials (per itions at the back of		Material disposed as
Name and	owner of facility	Year opened		ty of materials ng the facility	Residential	Non-residential (IC&I and CR&D)	Totals should equal 100%	processing residue (e.g., contaminated materials)
329		331	( <i>me</i>	tric tonnes)	<b>(%)</b>	<b>(%)</b>		<b>(%)</b>
							1000/	
							100%	
336		338	339		372	373		375
	Y						100%	
343		345	346		376	377		379
							100%	
			364					<u> </u>
		Total 🕨						
	additional facilit							

Type of material	Туј	pe of material	Quantity of organic material (metric tonnes)					
Leaf & yard waste	183	Biosolids		185				
Food waste / SSO materials	Other <i>(please</i> s	specify) <sup>186</sup>		189				
Forestry waste / Wood waste	187	Other <i>(please s</i>	specify) <sup>190</sup>	¥	191			
Agricultural waste	Other <i>(please s</i>	specify) <sup>194</sup>		92				
Recycling								
<ul> <li>In 2012, did this company own and/or operate a material recyclir g fac 'lity' (MRF), recycling centre or drop-off depot (municipally or privately owned) where materials were r repared/collected for recycling?</li> <li><sup>385</sup> Yes ► Go to question 3.4</li> <li>I lo ► Go to section 4</li> </ul>								
3.4 Please complete the	following.	NP						
	R	(Please s	Sources of mate					
Name and ov	vner of facility	Residential	Industrial, commercial and institutional (IC&I)	Construction, renovation and demolition (CR&D)	Totals should equal 100%	residue (e.g., contaminated materials)		
		(%)	(%)	(%)		(%)		
225		228	229	230		386		
		-			100%			
232		235	236	237		387		
		-			100%			
239		242	243	244		388		
		-			100%			
Please list additional facilities in the Comments Section (Section 7).								

If you are not reporting please specify the unit	g quantities in metric tonnes, t of measure used.	▶ 389	
Type of material	Quantity of materials marketed (metric tonnes)	Type of material	Quantity of materials marketed (metric tonnes)
Newsprint, phone books, magazines	314	Plastic – PET (1)	391
Corrugated cardboard	315	Plastic – HDPE (2)	392
Mixed paper fibre and boxboard	316	All other plastic (3-7) All other plastic (3-	393
Glass	317	Mixed plastins	323
Ferrous metals (including ferrous scrap metal)	318	A septic containers / tetra packs	398
White goods	395	Gable top containers (e.g., milk cartons)	399
Aluminum	394	Electronics	396
Copper	39	Tires	397
Mixed metals	322	CR&D materials ( <i>Please</i> exclude asphalt, concrete, rubble and land clearing debris)	324
Other (Please specify) 366			325
		Total materials marketed	326

Section 4 - Managem	ent of non-hazardous	s waste (	garbage)					
Transfer Stations								
4.1 In 2012 did this comp	oany own and/or operate a tra	ansfer statio	on for non-h	azardous w	aste?			
<sup>501</sup> Yes $\blacktriangleright$ Go to q	<sup>501</sup> Yes $\blacktriangleright$ Go to question 4.2 No $\blacktriangleright$ Go to question 4.3							
<ul> <li>4.2 For each transfer station operated in this province/territory in 2012, please indicate the name, owner and provide your best estimate of the sources of waste and the total quantity of the waste managed through the transfer station.</li> <li>If you are not reporting quantities in metric tonnes,</li> </ul>								
please specify the unit								
		Approximate managed thr	e percentage o ough the facil	f total waste ity, by source	Weigh scale present?	Quantity of waste managed through the transfer station		
Name and location of transfer station	Owner of this facility if not self	Residential	Industrial, commercial and institutional (IC&I)	Construction, renovation and demolition (CR&v,	V yes, fill	(metric tonnes)		
503	504	505	506	507	508	509		
510	511	512	51.	514	515	516		
517	518		520	521	522	523		
524	525	526	527	528	529	530		
531	132	533	534	535	536	537		
538	539	540	541	542	543	544		
Total waste managed through transfer stations						545		

Waste (garbage)	disposal or process	ing					
<ul> <li>4.3 Did this company own and/or operate a facility where waste was disposed/processed in 2012? Include all types of landfills (e.g., sanitary, stabilized, bioreactor), incineration/thermal treatment (e.g., energy from waste, gasification) and residual waste processing (e.g., conversion of non-recyclable waste to an alternative fuel source).</li> <li>401 Yes ► Go to question 4.4 No ► Go to section 5</li> </ul>							
<ul> <li>4.4 For each facility that this company operated in the province/territory in 2012, indicate the name, type of facility and the sources and amount of waste disposed/processed in the facility as measured by weigh scales or by providing your best estimate. Please see definitions at the back of this questionnaire.</li> <li>If you are not reporting quantities in metric tonnes, please see definitions at the back of this questionnaire.</li> </ul>							
please specify the	e unit of measure used.					-	
		type of fill (LF), (P) n/y),	Approxim waste d	ate percenta disposed/pro by source	ge of total cessed,	Weigh	Quantity of waste
Name of facility	Owner of this facility if not self	Please indicate type facility as Landfill (Ll Processor (P) or Incinerator (IN), (fill in one only)	Residential	Industrial, commercial and institutional (IC&I)	Cortantion, re lovation and demontion (CR8.0)	ores ant? If yes, fill in circle	disposed/processed in the facility in 2012 <i>(metric tonnes)</i>
403	404	405	407	408	109	410	411
				$\mathbf{O}$			
412	413	414	416	417	418	419	420
421	422	423	425	426	427	428	429
430	431	432	434	435	436	437	438
439	440	441	443	444	445	446	447
448	449	450	452	453	454	455	456
457	458	459	461	462	463	464	465
466	467	468	470	471	472	473	474
Total waste disposed/processed in facilities						475	

#### Landfills

The following question pertains to landfills. If no landfills were reported in question 4.4, please go to section 5.

4.5 Please fill in the table below specifying if the landfill(s) reported in question 4.4 received any of the following materials, the quantity received, unit of measure and whether it was included in your response to 4.4 (quantity of waste disposed in landfill).

Type of material	Received at your landfill?	Quantity	Unit of measure (e.g., metric tonnes, kilograms)	Included in 4.4?	
Bottom ash from sewage sludge or solid waste incineration	573 Yes No	575	584	Yes No	
Contaminated soil	576 Yes No	578	585	579 Yes No	
Clean fill	S82 Yes No	583	202	580 Yes No	

4.6 In 2012, did this company contribute to a post closure and maintenance fund for the landfill(s)? See definitions at the back of this questionnaire.

847 587 Yes 🕨 I lo ► Go to section 5

Sectior	Section 5 - Exports and imports of non-hazardous materials							
Export	Exports and imports of waste (garbage) for disposal/processing							
		export non-hazardous waste for disp J.S.A. in 2012? Include direct shipments						
601	<sup>601</sup> Yes $\blacktriangleright$ Please complete the following. No $\blacktriangleright$ Go to question 5.2							
	ou are not reporting quanti ase specify the unit of mea							
Name	e and owner of facility	Location/Address	Quantity of waste sent to another province/territory	Quantity of waste sent to the U.S.A.				
			(metric tonnes)	(metric tonnes)				
615		616	617					
619		620	621	622				
			KOM					
623		624	04	626				
			Pílli					
	Totol	waste exported for disposa	607	610				
	IUtal							
fac		rom outside this province/territory dis ntor/energy from waste, or residual wa						
646	Yes      Please complete	te the foir wing. No ► Go to	section 5.3					
	ou are not reporting quan. ase specify the unit of mea							
		у ,						
	FO,		Quantity of waste from other provinces/territories	Quantity of waste from the U.S.A.				
	<b>*</b>		(metric tonnes)	(metric tonnes)				
	Total v	waste imported for disposal/processing 🕨	651	653				

Exports and imports of re	cyclable materials and orgar	nic materials							
<b>5.3</b> Did this company transport/export recyclable materials to a material recycling facility (MRF) outside of this province/territory in 2012? Do not include exports of recyclable materials to end markets in other provinces or the U.S.A. Report organic material exports in question 5.4.									
656 Yes ► Please complete	e the following. No 🕨 Go to a	question 5.4							
	If you are not reporting quantities in metric tonnes, please specify the unit of measure used.								
Name and owner of facility	Location/Address	Quantity of recyclables exported to another province/territory	Quantity of recyclables exported to the U.S.A.						
650	650	(metric tonnes)	(metric tonnes)						
658	659	660	661						
662	663	664	665						
	Total recyclable materials exported		667						
<ul> <li>5.4 Did this company transport/e facility outside of this province</li> <li>668 Yes ► Please complete</li> <li>If you are not reporting quantit please specify the unit of measure</li> </ul>	es in metric torines,		robic digestion) to a						
Name and owner of facility	Location/Address	Quantity of organics processed in another province/territory (metric tonnes)	Quantity of organics processed in the U.S.A. <i>(metric tonnes)</i>						
670	71	( <i>metric tonnes</i> )	673						
	Y								
674	675	676	677						
	Total organic materials exported	680	681						

			province/territory proces	ssed at	this		
company's MRF or composting/anaerobic digestion facility in 2012? $^{683}$ YesPlease complete the following.NoGo to section 6							
If you are not reportin please specify the un	g quantities in metric tonn it of measure used.	nes, <b>&gt;</b> 684					
	Quantity of recyclables from other provinces/territories	Quantity of recyclables from the U.S.A.	Quantity of organic materials from other provinces/territories		antity of organic ials from the U.S.A.		
	(metric tonnes)	(metric tonnes)	(metric tonnes)	(1	metric tonnes)		
Total materials imported 🕨	685	686	687	688			
Section 6							
	oyment informatio	n					
6.1 Gross Operating Rev the provision of was	the provision of waste management services. Do not net out expenditures.						
6.2 Please indicate the p each of the following		s revenues ∵≏oorted in q	uestion 6.1) received fror	n the pr	rovision of Percentage		
Collection of waste, recyclab	oles, organics	~		•	01		
Operation of a non-hazardou	us waste transfer Sacility, la	andfill, incinerator, process	sing facility	•	05		
Operation of a MRF or organ	nic processing facility/site			•	104		
Operation of hazardous was or disposal facility)	te facilities (treatment, tran	nsfer, containment, recycli	ng, incineration	•	306		
Sewage treatment/containm	lent			•	307		
Other waste management re (e.g., consulting, brokerage t				•	08		
Sale of recovered materials				•	09		
Other non-waste manageme Please specify:	ent revenues 835			•	10		
			Total should equa	• ▶ [	100%		

	perating Expenditures. F				(to the nearest dollar).	
	erating expenditures	► <sup>823</sup> \$				
<ul> <li>6.4 Capital Expenditures. Report this company's total capital expenditures for 2012. Include any new (non-amortized) capital expenditures, new assets purchased in Canada and all imported assets (new and used).</li> <li>Total capital expenditures</li> </ul>						
6.5 Employment. Report the average number of full-time (30 or more hours per week) and average number of part-time (less than 30 hours per week) employees whose primary function is working on the waste management activities of this company in 2012. Do not specify full-time equivalents for part-time employees. Do not is a bude contract employees or sub-contractor's employees.						
				Average number of employees in 2012		
				Full-1. me	Part-time	
		Total	employees		833	
Section 7						
Certification						
7.1 I certify to Signature	that the information con	tained in this repo. ' is	Date 0015 Year	Month Day	y knowledge.	
Name of 0013	person completing this re	çon	Telephone		Extension 0027	
Title of po	erson complet.rg ແມ່ວ repo	ort	<b>Fax</b> 0016			
E-mail ac	ddress		Website addres	SS		
<b>7.2 Approxir</b> <sup>901</sup>	nately how much time w	vas spent filling out thi	s survey and calc	ulating the figures re	quired?	

#### Comments

Please provide any comments you may have about this survey (e.g., length, ease of completion, suggestions for future questions, suggestions about the format). Also, please use this space or attach additional documentation if you wish to provide additional information about your waste management activities.

If you have any questions, please contact: Operations and Integration Division, JT-2-C4, Statistics Canada, Ottawa, Ontario, K1A 0T6 Telephone (toll free) 1-866-445-4323 Fax: 1-888-883-7999 Email: enviro-waste-bus@statcan.gc.ca

Please return this questionnaire in the envelope provided

Thank-you for your participation!

Introduction, explanations and definitions

#### Introduction

Waste statistics are important sets of information used to determine public policy and environmental practices. The Environment Accounts and Statistics Division of Statistics Canada plays a significant role in developing environmental statistics for Canada. One of the Division's objectives is to develop a complete set of statistics on the physical and financial dimensions of the management of waste.

## What is waste?

There have been several definitions of waste proposed in recent years. One common thread among these definitions is the concept that waste is a material that is unwanted by its producer. The unwanted materials may be by-products of a production process – fly ash from a furnace, for example. Alternatively they might be products, the inherent value of which has been consumed from the perspective of the current holder – for example, a newspaper that has been read, a package that has been opened and emptied of its contents or an apple eaten to the core are all similar insofar as they have lost their original inherent value from the consumer's perspective.

If these materials lose this inherent value to such a degree that permanent disposal is the most viable option or perhaps the only available option, then a waste services provider accas an agent that relieves the generator of the waste of the burden of disposal.

However, the material may have value from the perspective of someone else – the newspaper can be used as an input at a pulp and paper plant or the apple cancer of by a composting facility – thus a waste services provider may divert such a material from the waste stream. Value is reintroduced to the material through a process that treats the material in such a way as to enable it to be rointroduced back into the market-place as a valuable good. For example, the newspaper may be collected and taken to a Material Recycling Facility (MRF) where it is sorted from other items, bundled and compacted – thus preparing it in such a fashion that it is marketable (valuable) to a buyer such as a pulp and paper mill.

### What is the waste management industry?

The Canadian waste management industry embodies two inter-related elements – governments and other public organisations that provide or make provision for waste management services and private firms that supply these services. To supply the information needed to depict these two elements, two survey vehicles are utilised. One is the Waste Management Industry: Business Sector Survey and the other is the Waste Management Industry: Government Sector Survey. Both of these surveys gather financial and human resource (e.g., revenues, expenditures, employment) and physical information (e.g., quantities of different types of waste disposed of or recycled) about the waste management industry.

For the purposes of these surveys, the waste management industry broadly includes all firms and public bodies operating in Canada that provide the services of collection, transportation, diversion, treatment or disposal of waste or recyclable materials. The majority of the establishment's revenue will come from provision of these services. To further define these broad activity

- » Waste, recyclable and organic materials collection methods incluen curbside collection, back door pickups, and automated collection. The waste, recyclable or organic materials may be taken to an intermediate site or the a final disposal site.
- Mass diversion includes any physical transformation of materials in preparation for recycling or reuse. Such activities include sorting, cleaning, and volume reduction as well as composting and anaerobic digestion.
- » Waste disposal facilities include landfills and incinerators/energy from waste facilities.

#### Please exclude:

- » Wastes that are associated with primary resource extraction or harvesting (e.g., farm manure, fish waste from fish processing, market garden waste, orchard and urban forest tree prunings, mine or mill tailings)
- » Conventional air pollutants
- » Liquid effluents from processing or manufacturing sites
- » Any materials used as landfill cover
- » Clean or contaminated soil including soil used as landfill cover
- » Industrial sludge
- » Gravel and rocks
- » By-products generically referred to as nuclear wastes
- » Oil field waste
- » Waste from portable toilets

This is consistent with the definition of waste used by the Canadian Council of Ministers of the Environment.

## Estimating sources of waste (garbage), recyclables and organic materials

It is acknowledged that it is often very difficult to track the quantities of waste and recyclable materials by source unless the business or local government collects or prepares materials from only one source (e.g., a firm that collects waste only from IC&I sources).

In this survey, you are being asked to estimate the proportion of materials by source of material at three points (if applicable and known): at the facility where organic material is processed, at the facility where recyclables are prepared and at disposal. If you engage in one or more of these activities, you will be asked to estimate the proportion of waste, recyclable or organic materials from residential, non-residential and construction and demolition sources. While it is recognized that such estimates may be difficult to make, you are asked to be as accurate as possible.

#### Definitions

#### **Agricultural waste**

All waste materials produced as a result of agricultural activities, including, for example, residues from the application of pesticides, herbicides, fertilizers and other chemicals, wastewater, bedding material, etc.

#### Anaerobic digestion

A series of processes in which microorganisms break down biodegradable material in the absence of oxygen.

#### **Bioreactor landfill**

A landfill where water and air are circulated into a specifically designed landfill in order to cause accelerated bic ogical decomposition of waste material.

#### **Biosolids**

Includes solid or semisolid material cotained from treated wastewater.

#### **Bottom ash**

The residue ash that mains after the incineration of a waste material.

#### **Clean fill**

Uncontaminated inert solid material including soil, rock, stone, dredged material, used asphalt, and brick, block or concrete. The soil is considered 'clean' because it has not been contaminated or affected, for example by a spill or release of toxic materials.

#### Composting

Composting is an aerobic biological treatment process used most frequently in Canada at this time for management of biodegradable waste such as leaf and yard waste or food wastes. See also anaerobic digestion.

## Construction, renovation and demolition waste (CR&D)

CR&D waste, also re erred to as DLC (demolition, landclearing and construction weste), refers to waste generated by construction, renevation and demolition activities. It generally includes materials each as brick, painted wood, drywall, metal, cardboard, or or windows, wiring, etc. It excludes materials from lan' clearing on areas not previously developed. CR&D waste can come from residential sources such as house en vations or from non-residential sources for example the construction or demolition of office buildings.

#### **Contaminated soil**

Soils containing materials that, by their nature, require controlled disposal.

#### Electronics

Electronics are items that function through the use of electricity and/or batteries. Also included are items that have a circuit board but do not necessarily require electricity from an outlet (such as telecommunication equipment). Examples are personal computers, laptops, monitors, peripheral devices (e.g. printers, scanners, etc.), telephones, cell phones, facsimile machines, stereos, portable music players and children's toys containing electronic components.

#### Energy from waste (EFW)

EFW refers to any waste treatment that creates energy in the form of electricity or heat from a waste source. Most EFW processes produce electricity directly through combustion, or produce a combustible fuel commodity, such as methane, methanol, ethanol or synthetic fuels.

#### **Ferrous metals**

These are metals which contain iron. They may have small amounts of other metals or other elements added, to yield specific properties. All ferrous metals are magnetic and give little resistance to corrosion. Steel is an example of a ferrous metal. The recycling of ferrous metals include but is not limited to the processing of tin/steel cans, strapping, as well as the extraction of metals from appliances.

#### Food waste

Includes food wastes and food scraps from households and non-residential sources such as grocery stores, restaurants, etc., destined for composting or anaerobic digestion.

#### **Forestry waste**

The debris or leftover waste from the management of forests. This would include trees, stumps, branches, etc., that were discarded.

### Gasification

A process, in the context of waste, that uses heat, pressure and steam to convert materials directly into a combustible gas.

#### Hazardous waste

Includes materials or substances that given their corrosive, inflammable, infectious, reactive and toxic characteristics, may present a real or potential harm to human health or the environment. Due to their hazardous nature they require special handling, storing, transportation, treatment and disposal as specified by the Transportation of Dangerous Goods Regulations (1985), The Canadian Environmental Protection Act (1988), The Basel Convention (1989), or the Export and Import of Hazardous Waste Regulations (1992).

## Household hazardous/special waste (HHW)

Materials generated by residential households that can not be collected in standard residential recycling programs and present a risk to municipal waste management systems because of their hazardous and/or toxic nature. This in cludes solid or liquid materials, or containers holding gases which have outlived their usefulness. This waste may be frammable, corrosive, explosive or toxic and therefore should not be disposed in landfills or sewage systems.

### Incineration/thermal treatment

Incineration, in the context c. waste, refers to the burning of waste. Incineration of vaste naterials converts the waste into incinerator bottom ash, flue gases, particulates, and heat, which can in turn to used to generate electric power. Most jurisdictions in Canada consider incineration to be disposal.

## Industrial, commercial and institutional (IC&I) waste, non-residential

IC&I Waste (Industrial, Commercial, and Institutional) is the waste generated by all non-residential sources in a municipality, and is excluded from the residential waste stream. This includes:

 Industrial waste, which is generated by manufacturing, and primary and secondary industries, and is managed off-site from the manufacturing operation. It is generally picked up under contract by the private sector;

- » Commercial waste is generated by commercial operations such as shopping centres, offices, etc. Some commercial waste (from small street-front stores, etc.) may be picked up by the municipal collection system along with the residential waste;
- » Institutional waste is generated by institutional facilities such as schools, hospitals, government facilities, senior homes, universities, etc. This waste is generally picked up under contract with the private sector.

## Landfill

A site, on land, that is used primarily for the disposal of waste materials. The contents of landfills can include garbage which is not processed, and also residual material from processing operations (e.g., MRF residues, incl. erator ash, organic processing residues).

## Leaf and yard waste

Includes any waste collected from a yard or garden such as leaves, grass clippings, plants, tree trimmings and branches.

## Materia! Recycling Facility (MRF)

A facility when materials that are collected for recycling are prepared c. processed. The preparation or processing can include so ting, baling, cleaning, crushing, volume reduction and so ring until shipment.

## Metric tonne

A measure of weight equal to 1,000 kilograms or 2,204 pounds.

### Non-hazardous waste (garbage)

Included in this category are materials, products or byproducts for which the waste generator has no further use and which are received for disposal at waste disposal facilities or for processing at a waste processing facility.

### **Organic materials**

Materials that are or were once living, such as leaves, grass, yard trimmings, agricultural crop residues, wood waste, and paper and paperboard products or food scraps.

### Organic processing services

The breakdown of organic materials through either composting or anaerobic digestion processes.

## Organic material collection, non-residential

Collection of organic material (e.g., food scraps, leaves, grass, wood waste and paper products) from sources such as heavy and light industry, manufacturing, agriculture, warehousing, transportation, retail and wholesale commercial activities, restaurants, offices, educational or recreational facilities, health and other service facilities.

## Organic material collection, residential

Collection of organic material (e.g., food scraps, leaves, grass, yard trimmings) from dwellings, including apartment buildings and condominiums. Examples of collection methods are curbside collection, back door pick-up, and automated collection.

## Plastic – PET (1)

Polyethylene Terephthalate, commonly abbreviated as PET or PETE, is a polymer resin of the polyester family. PET is identified by the number 1 recycling symbol. Commonly recyclable PET materials include 2 litre soda bottles, water bottles, cooking oil bottles, peanut butter jars.

### Plastic – HDPE (2)

High Density Polyethylene is a polyethylene thermoplastic made from petroleum. HDPE is identified by the number 2 recycling symbol. Some commonly recycled HDPE materials include detergent bottles, milk jugs, and grocery bags.

## Plastic - All others (3-7)

Polyvinyl Chloride – PVC (3), Low Density Polyethylene – LDPE (4), Polypropylene – PP (5), Polystyrene – PS (6), Other (7).

Common uses: (3) plastic pipes, outdoor furniture, shrink wrap, water bottles, (4) dry cleaning bags, produce bags, trash can liners, (5) aerosol caps, drinking straws, (6) packaging pellets, Styrofoam cups (7) food containers.

## Post closure and maintenance fund (landfills)

This includes money set aside for the eventual costs associated with the maintenance and rehabilitation of a landfill after it closes. Suce a fund is often called a landfill reserve fund.

### **Processing** residue

Material that was originally diverted from disposal either to be recycled or composted, but was disposed due to the unsuitability of the material for recycling/composting (i.e., the type of material could not be processed or it was contaminated).

#### Quantity of materials entering the facility

The quantity, by weight, of unprocessed materials (e.g., organics) entering a processing facility (e.g., a central composting facility).

#### **Recyclable material**

Any material that has reached the end of its useful life in the form or purpose for which it was initially made and that can be reprocessed into a material that has value as a feedstock in another production process.

## Recyclable material collection services, non-residential (non-hazardous)

Collection of non-hazardous recyclable material, (e.g., cardboard, paper, plastics, metals, glass), from sources such as heavy and light industry, manufacturing, warehousing, transportation, retail and wholesale commercial activities, restaurants, offices, educational or ecreational facilities, health and other service facil: ies. Recyclable material may be taken to an intermediate site s ich as a material recycling facility or transfer facility.

## Recyclable material collection, residential (non-hazardous)

Collection o. non-hazardous recyclable material (e.g., cardinar, paper, plastics, metals, glass) from dwellings, including apartment buildings and condominiums. Examples of cullection methods are curbside collection, back door, ick-up, and automated collection. Recyclable material may be taken to an intermediate site such as a material recovery facility or transfer facility. Recyclable material may be collected on a regular or flexible schedule.

### Recycling

Recycling is defined as the process whereby a recyclable material (e.g., glass, metal, plastic, paper) is diverted from the waste stream in order to be remanufactured into a new product, or is used as a raw material substitute.

### **Recycling centre/drop off depot**

A facility or site where the public can bring materials for recycling or re-use. In some cases, household hazardous waste or special waste is accepted at these sites.

## Recycling services (non-hazardous waste)

Recovery and reprocessing of recyclable material (e.g., cardboard, paper, plastics, metals, glass) from the non-hazardous waste stream by baling, cleaning, sorting, reducing volume and preparing for shipment. Generally these activities take place in a material recycling facility (MRF).

#### **Residential waste**

Residential waste refers to waste from primary and seasonal dwellings, which includes all single family, multi-family, high-rise and low-rise residences.

It includes:

- The waste picked up by the municipality, (either using its own staff, or through contracted companies), and
- » The waste from residential sources which is selfhauled to depots, transfer stations and landfills.

#### **Residual waste processing**

An operation in which the physical or chemical properties of non-recyclable or compostable wastes are changed to reduce size and/or volume. Examples of waste processing are shredding, compaction & transformation.

### Scrap metal

Any metal cutting or reject of a manufacturing operation, which may be suitable for recycling.

### Sources of materials

Refers to the sources of generation of the waste or recyclable material. These sources are classified as residential, industrial, commercial and institutional (IC&I) and construction, renovation and demolition (CR&D). It is sometimes difficult to ascertain the source of a given material because or took of tracking or complex collection arrangements (e.g. when collection is contracted out or when collection renuces pick up materials from a mix of sources on their rounts).

## Source separated organic materials (SSO)

Source separation of organics is the betting aside of organic waste materials at their point of generation (the home, office, or other place of busines () to / the generator. Examples of SSO materials are food borght, soiled paper packaging such as ice cream boxes. In iffin paper, flour and sugar bags, paper coffee cups and paper plates.

## Stabilized landfill

A stabilized landfill is similar to a conventional landfill except waste is screened and then mechanically and biologically treated prior to being landfilled. Screening of waste (usually from source separated collection programs) removes recyclable materials as well as other materials that should not be landfilled. The remainder is composted and then landfilled. This kind of waste treatment prior to landfilling reduces the production of landfill gas and leachate.

## Tipping fees (disposal fees)

Also known as disposal fees, these are fees that are paid to the owner, lessor or operator of a landfill for the right to dispose of waste within that landfill. These fees can be assessed on a weight-based (e.g., per tonne), volume-based (per cubic metre) or per item basis (fees that differ according to the type of material being disposed, such as white goods or tires). Tipping fees may also be paid to the owner or operator of recycling facilities, organic material processing facilities, or waste processing facilities.

## Transfer station (non-hazardous)

A facility at which wastes transported by vehicles involved in collection are transferred to other vehicles that will transport the wastes to a disposal (landfill or incinerator) or recycling facility.

## Waste collection services, non-residential (non-hazardous)

Collection of non-hazardous waste, garbage, rubbish, refuse, trash and commingled material from sources such as heavy and nontrindustry, manufacturing, agriculture, warehousing, nonsportation, retail and wholesale commercial activities, restaurants, offices, educational or recreational facilities, health and other service facilities. Waste may be taken to an intermediate site or to a final disposal site.

# Waste collection services, residential (non-hazardous)

Collection of non-hazardous waste, garbage, rubbish, refuse, trash and commingled material from dwellings, including apartment buildings and condominiums. Examples of collection methods are curbside collection, back door pickup, and automated collection. Waste may be taken to an intermediate site or to a final disposal site.

### Waste hauling or transportation

The transportation of waste from one site or geographic area to another. This excludes the collection of waste and is limited to activities such as waste exporting or the shipping of wastes from transfer station to disposal or processing facility.

#### White goods

Includes metal items such as: stoves, fridges, freezers, air conditioners, dehumidifiers, washers, dryers, hot water tanks, metal sinks, microwaves, and various other metal items.

#### Wood waste

The primary constituents of wood waste are used lumber, trim, trees, branches, and other wood debris from construction and demolition clearing and grubbing activities. It includes: dimensional lumber, plywood, particle board and fibre board, crating, wood fencing, pressure treated lumber, wood shingles, wooden doors, creosoted wood products, demolition wood waste, painted wood.

#### Conversions

One cubic yard = 0.764 cubic metres 1 kilogram = 2.2 pounds 1 metric tonne = 1000kg = 2,204 pounds

#### **General information**

#### Confidentiality

Your answers are confidential.

Statistics Canada is prohibited by law from releasing any information it collects which could identify any person, business, or organization, unless consent has been given by the respondent or as permitted by the *Statistics Acr*. Statistics Canada will use the information from this survey for statistical purposes.

#### **Data-sharing agreements**

To reduce respondent burden, Statistics Canao, bas entered into data-sharing agreements with provincial and territorial statistical agencies and other go common organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

Section 11 of the *St. tistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survy, there are **Section 11** agreements with the provincial and erritorial statistical agencies of Newfoundland and Lawraud, Nova Scotia, New Brunswick, Quebec, Ontario, Ma. itoba, Saskatchewan, Alberta, British Columbia, and the Yu on.

The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

Section 12 of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, the Northwest Territories and Nunavut.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

#### **Record linkages**

To enhance the data from this survey, Statistics Canada may combine it with information from other surveys or from administrative sources.

Thank you for completing this questionnaire. Please retain a copy for your records. Visit our website at www.statcan.gc.ca