CHAPTER 8

INDUSTRIAL WASTE SURVEY

8. INDUSTRIAL WASTE SURVEY

8.1 Objectives

The objectives of the Industrial Waste Survey was to investigate the present situation of industrial waste management in Metro Manila.

8.2 Regulatory Base

The regulatory base for handling of industrial and hazardous waste in the Philippines is the Republic Act 969: Toxic Substances and Hazardous and Nuclear Waste Control Act, 1990, and DENR Administrative Order 29, 1992: general implementing rules and regulations for Republic Act 969.

The regulatory agencies involved in matters related to industrial and hazardous waste and their relationship is displayed in Figure 8.1.

Mr. Vict	nent of Environment and Natural Resources (DENR) or O. Ramos, Secretary fin T. Ganapin, Under Secretary for Environment and Program Development
	Environmental Management Bureau Dr. Marlito L Cardenas - Director Tel/fax: +632 924 7540
	Environmental Quality Division Engr. Erlinda A. Gonzales, Division Chief Tel/fax: +632 928 3773
	Chemicals and Waste Management Section Ms. Angelita T. Brabante, Section Chief

Figure 8.1 Regulatory agencies involved in matters related to industrial and hazardous waste

Tel/fax: +632 928 3773

8.3 Methodology

In accordance with Section 26 of DAO 29, the Environmental Management Bureau (EMB)of DENR in 1993 initiated a nationwide hazardous waste registration activity and required all the industries to register the type and quantity of waste they are generating, treating and disposing. In early 1995, EMB compiled, tabulated and

entered the registration results from 162 companies into a specially designed Hazardous Waste Tracking Database. The industrial waste survey carried out is based on data from this database.

8.4 Results

Results from the industrial waste survey is presented in the following Tables.

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Table 8.1 Company Description

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EMB Hazardous Waste Tracking Database

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Boots Pharmaceuticals (Phils) Inc.	3522		10,000,000.00		76	G
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Warner Lambert Philippines, Inc.	3522		60,000,000.00			
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EMB Hazardous Waste Tracking Database

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13-80-0047	to be and to be an ord to be a second to be a secon	3523		65,000,000.00		540	250	
13-80-0048	H B Fuller (Philippines), Inc.	3529		75,000,000.00		38	ത	
13-80-0049	Resirve Futernises Inc.	3529		1,000,000.00		13	£	
13-80-0050	Asian Chemical Corporation	3540		50,000,000.00	1	15	с р	
12-80-0055	Definition of the Bulles	3620		6,300,000.00		62	50	
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13-80-0052	Difinitions YTK Industry Inc.	3819		10,000,000.00		83	64	
13-80-0054	Rowell 1 ithorraphy and Metal Closure. Inc.	3819		50,000,000.00	160	259	121	
13-80-0055	Philins Serviconductor Phils. Inc.	3825		250,000,000.00		1,833	1,499	
13-80-0056	Pacific Semiconductors. Inc.	3825		104,000,000.00	480	1,899	1,227	
13-80-0057	Motorola Philippines, Inc.	3825	·	30,000,000.00		1,718	1,531	
13-80-0058	Zion Philippines Inc	3825				640	465	
13-80-0050	AMI (Philipping) Inc	3825		33,074,500.00	•	879	656	
13-80-0000	Amkor/Anam Pilininas Inc.	3825		77,833,333.00		2,265	1,560	
13-80-0061	Automated Microelectronics Inc.	3825		500,000,000.00		784	490	
	Dhiline Consumer Printings	3832		·		85	64	
13-80-0002	Evered v Rattery Company (Phils) Inc.	3834		55,000,000.00	12	357	281	
12.80-0064	Deline Flortronics and Lighting Inc.	3839		300,000,000.00		430	220	
13-80-0004	3M Phile Inc	3909		100,000,000.00	ю	217	29	
13-80-0066	Flan Pharma Phils Inc.	6170		22,000,000.00		73		
13-80-0067	Weltcome Philippines. Inc.	6170		65,000,000.00		136		
13-80-0068	G. D. Searle Philippines. Inc.	6170		50,000,000.00		105		
13-80-0069	RP Chem. Inc.	6170		30,000,000.00		21		
13-80-0070	Alcon Laboratories (Phil.) Inc.	6170		25,000,000.00		43		
13-80-0071	ARMEDIC Philippines, Inc.	6170		716,400.00		141		
13-80-0072	Schering Philippine Corporation	6170		14,000,000.00		85		
13-80-0073	Marsman and Co., Inc.	6170		100,000,000.00		538		
13-80-0074	Upjohn Inc.	6170		60,000,000.00	12	142	•	
13-80-0075	Rhone-Poulenc Rorer Phils., Inc.	6170		60,000,000.00		144		
13-80-0076	Sanofi Philippines, Inc.	6170		44,634,300.00		49		
13-80-0077	Boehringer Ingelheim Phils., Inc.	6170		120,000,000.00	10	242		
13-80-0078	Panelon Philippines. Inc.	3211		6,000,000.00		31	25	
13-80-0079	Integral Chemical Corporation	3511	•	1,500,000.00		121	20	
13-80-0080	GST Philippines, Inc.	3712		62,500,000.00		279	233	
13-80-0081	Philippine Worldwide Mfg. Plastic Corp.	3560	•	10,000,000.00		59	30	

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13-80-0083	Allegro Microsystems Phils., Inc.	3825		40,000,000,04	201		
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13-80-0091	CD Electroplating and Fabrication, Inc.					ĥ	ц,
13-80-0092	American Packing Industries (Phils.) Corp.			35,000,000.00		7/	C) T
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13-80-0093	Borden International Phils., Inc.	2.00					
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13-80-0095	Geimart Industries Phils., Inc.	0170		·····			

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EMB Hazardous Waste Tracking Database

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Table 8.2 General Description of Business/Operations and Major Products

Magnolia Cheezee/Cheesefood Nitrous oxide (USP) Dyes and optical brighteners Corrugated carton partitions Corrugated carton partition **MPRODUCT3** Vountain Dew flavor/salt Phosphoric acid, T. G. Youngs Town squid Cheers orange Royal Tru-orange White fabrics Industrial oil Margarine Swimwear Enfalac 97qU Culls 2 Zi Zi Corrugated carton pads Medical/industrial oxygen Chemicals for laundry and housekeeping Tetrasodium pyrophosphate (TSPP) Powder coating for bicycles **MPRODUCT2** Comugated carton pads Buttercup/Baker's Best Denim pants/short Goldcup sardines McCormick spices Children's wear 7Up flavor/salt PVC tiles PE/PB pipes Finishing pigs Dyed fabrics Kon-denims Nameplates Galvanize Finishers Geer oil Enfapro -umiture Sprite Sarsi g Powder coating services for fumiture Compressed oxygen gas Sodium tripolyphosphate (STPP) themicals for textile/non-textile rassieres, Corsettes, Panties ucose syrup eserves (local and western) iglets for contract growers PSIC1 PSIC2 MPRODUCT1 Calf for contract growers cirugated carton boxes comugated carton boxes nchor/Magnolia Butter oungs Town serdines apsi flavor/acidulant **Dyed Knitted Fabrics** Printed circuit board nebra San Miguel Washed garments oconut edible oil abrics interlining Twill pants/short Nickel chrome Acrylic sheets ewing gum arbon dioxide rinted fabrics Cooking oil PVC pipes Soy sauce oca-cola Sustagen Casket Plaques Actor oil andies andies Zippers opcola enims Soc 2110 3523 3220 3113 3115 3117 3511 3511 3511 1211 1213 2221 3111 3112 3412 3511 uperior Gas and Equipment Co. Inc. (SUGECO) Trimex Chemical Industries Corp. Consolidated Industrial Gases, Inc. (Mandatuy olygiass international Manufacturing Corp. merican Packing Industries (Phils.) Corp. Interey Farms Corporation (Cattle Farm) apsi-Cola Far East Trade Dev't. Co., Inc. alabon Soap and Oil Industrial Co., Inc. CD Electroplating and Fabrication, Inc. onterey Farms Corporation (Piggery) and Cathay Food Mfg., Corporation lippine Dairy Products Corporation ian Miguel Corporation - Polo Brewer Ica-Cola Bottlers Philippines, Inc. alabon Soap and Oits Ind. Corp. stbrite Industrial Plating Corp. ackaging Products Corporation .G.Fernandez Plating Services ad Johnson Philippines, Inc. Settech Electroplating lew. M.E. Moses Enterprises Velt Ever Electroplating Shop launlad Canning Corporation fi-Tex Industrial Corporation Amart Industries Phils. Inc. Polymedic General Hospital yson Surface Coating Corp. comos Bottling Corporation. eveland Textile Mills, Inc. MPP - Farola Carton Plant ixwel Food Products, Inc. srace Park Industries, Inc. a Tondeña Distillers, Inc. IVC Steam Laundry, Inc. ose Food Product Corp. lanila Electric Company anelon Philippines, Inc. State Manufacturing Ind. ssential Manufacturing onstant Plating Center igley Philippines, Inc. gnai Electric Ind. Inc. SU International, Inc. irefoods Corporation **NST ID INSTNAME** oldex Products. Inc. neral Textiles, Inc. nion Refinery Corp. Polyphosphates, Inc. EJEA Enterprises aren Trading olid Mills, Inc. 13-78-0023 13-79-0029 13-79-0028 13-79-0028 13-80-0016 13-80-0019 13-80-0017 3-79-0019 3-78-0022 3-78-0020 3-80-0092 3-78-00090 3-80-0090 3-80-0099 3-80-0089 3-77-0013 3-78-0010 3-78-0009 3-78-0015 3-78-002 -600-08-5 3-77-0012 3-80-000 3-79-0021 3-79-0003 3-80-0006 3-77-0003 3-78-001 3-78-001 3-78-001 3-80-000 3-79-000 3-80-000 3-79-000 3-79-002 3-79-0027 3-78-000 3-78-001 3-80-002 3-79-0025 3-77-0001 3-78-0004 3-79-0023 3-77-000 3-80-009 3-79-0016 3-30-0078 3-80-000 3-78-0018 3-80-000 3-80-0018

EMB Hazardous Waste Tracking Database

GENERAL DESCRIPTION OF BUSINESS/OPERATIONS AND MAJOR PRODUCTS

MPRODUCT2	Oleum	Red lead	AC-388		Paint raw matenais	Sulture act		Chemical solvents	Luissolved acerviene	Potassium silicate	Tetrasodium pyrophosphate	Soy sauce	Bodied oils	Acrylic solutions	Urea-formaidehyde Powder resins		Acrylic resins	I repon EC	Hopcin	Urea-formaldehyde (UF) powder resins			Water-based paints	Quick dry enamel white	Quick drying enamel (solvent-based)	Oil inks		Marine paints	Autorefinish paint	2. Car Paints	Penicillins/non-penicillins	Enythrocin 500 mg FT	Relief for sore throat			Antiasthma (Terbutaline)	Cough syrups		Larcan	Pulmonary (Bricanyi)	Adalat 10mg capsule	Pigments	Pericilins/Non-pericilins		Ponstan	Bath/Laundry soap	Dental cream	Facial cleanser	Toilet soaps		Johnsons's Baby Qil	
PSIC1 PSIC2 MPRODUCT1	Sulfuric acid, battery grade	Battery grade oxide	AC-507	Zine oxide	Textite auxillianes	Aluminum sulfate	Compressed oxygen gas	Hydrocerbon solvents	Compressed oxygen gas	Sodium silicate	Sodium tripolyphosphate	Monosodium glutamate (MSG)	Alkyd resin	Latex entulsions	Formatin	Emulsion resins	Alkyd resins	Sevin (Carbaryi) Powders	Decis	Formalin	Paints - Industrial & marine type chemicals for maintenance	Paints	Solvent-based enamels	Flat latex white	Latex (water-based)	Automotive paints	House paint (latex base, alkyd base and oil base)	industrial paints	Industrial paint	1. House Paints	Analgesic/anttipyretics	Dextrose 5% in LRS	Analgesics	Pharmaceuticals	Visine	Antihypertensive (Metoprolal)	Multivitamins (syrups, tablets and capsules)	Antibiotics	Cortal 500	Cardiovascular (Betaloc)	Adalat 5mg capsule	Pharmaceuticals	Analgesics/Antipyretics		Halls	Detergent bar/powder	Shampoo	Shampoo and conditioner	Syndet bars	Toilet soap	Johnson's Baby Powder	
1 PSIC2			3529			-		3514																																												
PSIC:	3511	3511	3511	3511	3511	3611	3511	3511	3511	3511	3511	3511	3513	3513	3513	3513	3513	3514	3514	3515	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3522	3522	3522	3522	3522	3522	3522	3522	3522	. 3522	3522	3522	3522	3522	3522	3523	3523	3523	3523	3523	3523	
INST ID INSTNAME	Chemphil-LMG, Inc. (Inorganic Division)	Unitox Industrial Corporation	Rohm and Haas Philippines, Inc.	Metoxide Philippines Corporation	Qualitech Chemical Corp.	Resins, Inc.	Consolidated Industrial Gases, Inc. (Navotas)	The Shell Chemical Co. (Philippines) Inc.	Consolidated industrial Gases, IncBalintawa	Integral Chemical Corporation	Chemphil Albright & Wilson Corp.	Union Ajinomoto, Inc.	Kernwerke, Incorporated	Alpolac, Incorporated	Borden International Phils., Inc.	EM-POL Corporation	Polymer Chemicals, Inc.	Rhone-Poulenc Agrochemicals Philippines, inc.	Hoechst Philippines, Inc.	Borden International Philippines, Inc.	Cardinal Industrial, Inc.	Roosevell Chemical, Inc.	Charter Chemicals and Coating Corporation	Attantic Coatings, Inc.	Dutch Boy Philippines, Inc.	BASF Coatings and Inks Phils. Inc.	Pacific Paint and Oil Manufacturing, Inc.	Fuller O'Brien Paint Co., Inc.	Nippon Paint Philippines, Inc.	Twin Aces Industries, Inc.	BOIE Incorporated	 Abbot Laboratories (Philippines) 	Boots Pharmaceuticals (Phils.), Inc.	YSS Laboratories Company, Inc.	Pfizer, Inc.	GX International, inc	Interphil Laboratories, Inc.	United Laboratories, Inc.	Sterling Products International, Inc.	Astra Pharmaceuticats (Phils.), Inc.	Bayer Philippines, Inc./Healthcare Division	Merck, Inc.	BOIE Incorporated	Bole-Takeda Chemicais, Inc.	Warner Lambert Philippines, Inc.	Philippine Refining Company, Inc. (Unitever)	Colgate-Palmolive Philippines, Inc.	Plificinas Kao, Inc. (Household Division)		Manufacturing Services and Trade Corporation	Johnson and Johnson (Philippines), Inc.	
INST ID	13-80-0015	13-80-0013	13-80-0011	13-80-0009	13-79-0004	13-80-0014	13-78-0003	13-77-0004	13-79-0005	13-80-0079	13-80-0085	13-80-0012	13-80-0023	13-80-0087	13-80-0093	13-80-0022	13-80-0021	13-80-0001	13-80-0024	13-80-0020	13-79-0007	13-80-0032	13-80-0031	13-80-0030	13-80-0028	13-80-0029	13-79-0006	13-80-0026	13-80-0027	13-79-0017	13-80-0094	13-80-0040	13-80-0035	13-77-0005	13-80-0045	13-80-0044	13-80-0043	13-80-0041	13-80-0039	13-80-0038	13-80-0037	13-80-0036	13-80-0033	13-80-0034	13-80-0042	13-77-0007	13-80-0046	13-79-0009	13-77-0006	13-79-0008	13-80-0047	

MPRODUCT3 Detergent suffur flakes Litharge AC-6501

Leather auxilliaries Phthalic anhydride

Organophosphetes (pesticides)

Phosphoric acid (technical grade) Liquid fertilizer Modified alkyd resins Phenol-formaldehyde Maleic esters

Thiobencarb Driers

Phenol-formaldehyde (PF) liquid/powder resins Hostathion

Fiat ename! white Roofmaster-all colors (water-based) Container coatings

Turco chemical processing compounds House paint 3. Fumiture Finishes Laxatives Normosot-M in D5W Antirheumatic

Life saving drugs Astring-o-sol Antibiotics (Penglobe) Adalat gits 30mg tablet Fine chemicats Antibacterial (Cefalexin) Antidiamheals Trosyd

Body cleanser Shampoo Laxatives Soaps Lopid

Detergent granules

Johnson's Baby Cologne

EMB Hazardous Waste Tracking Database

8 9 GENERAL DESCRIPTION OF BUSINESS/OPERATIONS AND MAJOR PRODUCTS

INST ID	INST ID INSTNAME	PSIC1 P	PSIC2	MPRODUCT1	MPRODUCT2	MPRODUCT3
13-79-0026	Philipoine Ink Corporation	3529	-	_etterpress/Offset RM	Roto/Flexe Inks	Vamish/Drier (UO)
13-79-0010	Republic Chemical Industries. Inc.	3529		Epoxies	Acrylic paint (water-based)	Cyanoacrylate
13-79-0018	Kolora Ink and Chemical Corporation	3529		Oil Based Printing Inks	Solvent Based Printing Inks	Aqueous-Based Printing Inks
13-80-0049	Resicor Enterprises, Inc.	3529		Additives for plastics, water treatment	Chemicals for steel industry	Epoxy materials
13-80-0048	H.B. Fuller (Philippines), Inc.	3529	-	Hotmeit adhesives	Polyvinył acetate adhesives	Dextrine adhesives
13-77-0012	EXXON Chemical Philippines	3540		Solvent blends		
13-80-0050	Asian Chemical Corporation	3540		Petrochemicai solvents	Biended solvents	Kesins
13-79-0011	Sime Darby Pilipinas, Inc. 2400 - Dioxid Core Dioci	1001	-	Plachic crates	Plastic nallets	
13-11-0000	owide - Flassing date filding	3560		reactor of actor Francescart sheations	Shower durations	Table cloth
10-00-0001	Prinippine violowice mig. Flash Colp. CMC-CMDD-Earda Parkaring Products (Mia Glass)	3620		Glass containers (bottles)		
13-77-0000	omotoment-renoia naovaging noocoo (mia. orax) SMC - Mold Manufachining Plant	3620		Glass mold		
13-80-0055	Delinning Gass Builts	3620		Glass bulbs	Glass tubes	
13-78-0013	Inter-Workd Steel Mills Inc	3710		Steel Bars		
13-79-0022	MKK Steel Corroration	3710	-	Black fron pipes	Galvanized iron pipes	
13-80-0080	GST Philippines, Inc.	3712	Ŭ	Grinding balls	Grinding rods	
13-78-0006	Maver Steel Pipe Corporation	3712	:	BI pipes	GI pipes	
13-78-0007	Continental Steel Manufacturing Corporation	3712		Deformed bars (reinforcement)	Angular bars	Flat bars
13-78-0019	Luxury Metal Manufacturing Corp.	3720		Bags and shoes accessories	Office supplies	Handicraft items
11-78-0016	Matal Plus Industrias	3720		Rincs for ladies baos, school, and traveiting bags	Adjusters for school and travelling bags	Beit buckles
19.78-0005	Padrem Stainless Steel Cornoration	3612	,	Stainless steel tubes/bars	Stainless steel pipes	
10 00 0000		2812	,	DNS-274 (C. 40)	PNS-230 (6-33)	PNS-415 (C-RO)
10-00-002		3810		Matal	Plastic	
13-00-0054	Fulphids 11A studeny, stor Device 1 Shooconfurianty Matel Alexandria Teo	2610) ithousochad timebaate	
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13-50-005	cpic creckonyo matanias borparan otari- 6 taritatat itat Otari - 100	2020		r all mode we want wear a		
13-80-0055	Philips Semiconductor Phils, Inc.	3025	., .		Derived Manifesto	
13-80-0056	Pacific Semiconductors, Inc.	3829		riastic packages	Power devices	
13-80-0057	Motorola Philippines, Inc.	3825	- .	4/16LD Dip integrated circuit	ZULU UPD Integrated circuit	20LD PLCC Integrated circuit
13-80-0058	Zilog Philippines, inc.	3825		ntegrated circuits		
13-80-0059	AMI (Philippines), Inc.	3825	-	ntegrated circuits		
13-80-0060	Amkor/Anam Pilipinas, Inc.	. 3825	-	ntegrated circuits		
13-80-0061	Automated Microelectronics, Inc.	3825		Integrated circuits		
13-79-0012	Lablech Manufacturing Industries	3825		Axial diodes	Transistors	Single-in-line diodes
13-80-0088	Astron Philippines Inc.	3832	.	Caraoke	Hi-Fi Stereo	
13-80-0062	Philips Consumer Products	3832	Ű	Colored television	Black and white television	
13-78-0002	P.I. Manufacturing, Inc.	. 3833 3819		Kitchen sinks	Electric stoves	Electric ranges
13-79-0013	C. C. Unson Co., Inc.	3834	ш	Batteries (AB, MCB, IB, SLA)	Electrolyte solution	Hydraulic brake fluid
13-80-0063	Eveready Battery Company (Phils.), Inc.	3834		Cylindrical dry ceils	Flashlights	
13-79-0014	Data General Phits., Inc.	3836	L	Power supply	Communication board	Transformers
13-80-0064	Philips Electronics and Lighting, Inc.	6686		incandescent lamps	Fluorescent tamps	Decorative lamps
13-80-0086	Honda Philippines, Inc.	3846	~	Motorcycles	Luggage carrier	Fork bottom bridge
13-80-0082	NAPOCOR - Maintenance Engineering Center	3960		Repair/fabrication of NPC power plant spare parts	Maintenance of NPC power plants	
13-80-0065.	3M Phils., inc.	3905	~	Tapes	Scotch brite	Abrasives
13-80-0069	RP Chem. Inc.	6170	Û	Chemicals	Animal health products	Human biological products
13-80-0071	ARMEDIC Philippines, Inc.	6170	5	Diamicron	Vastarel 20	Coversyl
13-80-0073	Marsman and Co., Inc.	6170	5	0rug	Cosmetics	Food
13-80-0074	Upjahn Inc.	6170	u	Dalacin C capsules 500 mg	Solu-corter 100 mg	Lincocin capsules 500 mg
13-80-0070	Alcon Laboratories (Phit.) Inc.	6170		Maxitrol drops/ointment	Naphcon - A	Betoptic solution
13-79-0015	Trust Chemicals, Inc.	6170	-	fextile dyes, chemical	Textile auxiliaries	Industrial chemicais
13-80-0076	Sanofi Philippines, Inc.	6170		- -		

EMB Hazardous Waste Tracking Database

GENERAL DESCRIPTION OF BUSINESS/OPERATIONS AND MAJOR PRODUCTS

MPRODUCT2	Mucosolvan liquids and other forms	Lomoti/ tablet	Sepura	i neolan		renacine			
PSIC1 PSIC2 MPRODUCT1	Bisolvon Elixir 60 and 120 mL	Isoptin tablet	Zovirax	Nifelan; Dittelan: Verelan		Oruvail/Orudis	Shipping services		
PSIC1 PS	6170	6170	6170	6170	6170	6170	7132	9730	9730
INST ID INSTNAME									
UNST ID	13-80-0077	13-80-0068	13-80-0067	13-80-0066	13-80-0072	13-80-0075	13-77-0011	13-80-0005	13-80-0010

MPRODUCT3 Furoxone liquid and tablet Cytotec tablet Calpol Duranol

Maalox

EMB Hazardous Waste Tracking Database

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Table 8.3 Waste Generation per Year

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69:0000 Americanan Planes SS Multice add SS<	13-80-0		3825	Acids (B2D1-B204)	. B201	155.00	COM	zı	r :
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EMB Hazardous Waste Tracking Database

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			1944 - Respective Transmerika and second and hutched sub- stated as them a schlade acids and hutched sub-	B207	-	GRM		r
13-80-0047	Johnson and Johnson (Philippines), Inc.	0700		E2U7	9.75	CUM	+	I
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Uther inorganic actos	B207	58.00	XGS	_	н
13-80-0084	Epic Electronics Industries Corporation	3825	Boric acid	1020		S S X	- e-	х
13-80-0084	Epic Electronics Industries Corporation	3825	Sultamic acid	1020	350.00	<u>،</u>	· F-	M
13-77-0006	Procter and Gamble Philippines, Inc.	3523	Electrostatic precipitator (ESP) acid	0070	150.00	. ,	- 0	M
13-77-0006	Procter and Gamble Philippines, Inc.	3523	Off-quality acid	8070	2.50	. =	6	
13-80-000	Rhone-Poulenc Agrochemicals Philippines, Inc.	3514	Acetic Acid, AK	8208		ì	ł	
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		8070	0.8.0		۵	ø
13-80-0040	Abbot Laboratories (Philippines)	3522	Valproic acid	8000	008	S S X	0	- 60
13-80-0040	Abbot Laboratories (Philippines)	3522	Benzoic acid		00.00	201	0	n na
13-80-0043	Interphil Laboratories, Inc.	3522	Organic acids	2000	145	3 00	5	• I.
13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Acetic, benzoic and thioglycolic acids	RZU28		22	۲	: т
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Organic acids	RZOB	07.20 20	80. C	- (
13-80-0074	Uniohn Dec	6170	Organic acids	B206	360.00	י כ	54	2
13-80-0083	Alleoro Microsystems Phils. Inc.	3825	Alpha flux 260 HF	8208	0.33	- :	5 H	× .
13-80-0033	BOIE Incorporated	3522	Glacial acetic acid/perchtoric acid	8299	43.00	3	- (
13-80-0036	March Inc.	3522	Acids	B299		:		c
13-80-0041	Inited 1 aboratories Inc.	3522	Mixed chemicals, solvents, acids, alkali, etc.	B299	200,00	- :	n or	2 0
12-00-01	Internhill athratories Inc	3522	Other mixed acids	B299	192.00	5	51	<u>с</u>
10,000	Coloria-Delmolitus Dhilinoinee Inc	3523	Spent acid	B299	60,000.00	ລ	- 1	<i>n</i> :
		3825	Other mixed acids	8299	6,000,000.00	o	ŀ	L :
	radii osinon occors, sto Atat (bailonines) lan	3825	Other mixed acids (Diverlite, H2SO4, HNO3, plating mixes)	8299	2,000,000.00	5		I:
0 10 00 0000	Anti-(Fluippers), the second subscripts in the second s	3695	Other mixed acids	B2.99	469.86	OUM	+	Ţ
13-00-00-01		6170	Mixed acids	B299	300.00	5	D	
13-80-00/4		3 BEO	Waste acid containing high concentrations of Pb. Cr. Fe. Ni.	B299	182.70	5	u.	x
290-092 20-0082	NAPOCOK - Manuenarica crigineernig Center	2825	Rrite dio (mix acid)	B299	0.88		۵	H, W
13-80-0063	Auegra microsystems millio, into	2825	Mater 717 acid clanner	6299	633.00	Þ	ب	II.
13-80-0084		1121	0 1% calibratic solds	C301	37,440.00	۲		r
		1010		C301	155.00	NOO	0	
13-77-0002	Coca-Cota Bottlers Philippines, Inc.	ちちら	Liquiq catosto socia Altori: estution (neutrinenda enlin)	C30	30,000.00	2	ب.	
13-77-0004	The Shell Chemical Co. (Philippines) inc.	- 100		C301	100.00	KGS	۵	
13-78-0006	Mayer Steel Fipe Corporation	38.70		C301	2,085.75	, ,	<u>م</u>	o
13-79-0014	Uata General Prius., Inc. Diata Paulaa Aarohamianin Philippine Inc.	3514	Sodium Hydroxide, AR	C301	2.00	KGS	٥	
13-80-0001	Knone-Potieric Agrociterii cais Frinkpartes, inc.	2545		C301	2,700.00	v		
13-90-000	Polyprosprates, inc.	1.55	Snent 1% caustic soda kette washings (after several times o	C301	72.00	F	٣	r
		3513	Alkali wastewater	C301	2,000.00	C		0
13-80-00-21		3522	Alkalies	C301	920.00	ے ا	۹ م	00 I
13-80-0040		3522	Sodium hydroxide pellets	C301	1.20	XGS	¢	6.0
13-80-0043		3522	Caustic soda	Cad	288.00	ני ב	2	כמ
13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Caustic soda		0.10 24 50	202	7	: 3
13-80-0055	Philips Semiconductor Phils., Inc.	3825	Caustic	1000	00.75		2 +	: 1
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825		C3U1	101.00	200	• _	: 1
13-80-0084	Epic Electronics Industries Corporation	3825	Caustic soda flakes	C3U1	00.622	002	- (-
13-80-0001		3514	Potassium Hydroxide, AR	C302	9.4	09Y	5	-
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		2000	00.020		c	62
13-80-0043		3522	Potash	2020	50.04 50.04	D C	s 1-	11
13-80-0060		3825	Potash	2002	242.00	400 1	· -	O r
13-78-0002		3833	Aikaline cleaners	2002	36 000.00	3 =		N.L
13-79-0008		2225		Cana	10.00	KGS	1	۵
13-80-0084		07.05	Alax cleauser	0000			I	
13-80-0038	Astra Pharmaceuticals (Phils.), Inc	7700						

EMB Hazardous Waste Tracking Database

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WS_NAME Ammonium hydroxide Ammonium hydroxide Linne slurry	Lime Carbide sludge Lime sludge Carbide residue	Calcium hydroxide Metal sludges (iron and nickel) Sludge waste	Heary metal sludges Lime-neutralized metal sludges Metal sludge	Solder dross (tin/lead) Copper Atkali solution Wastewater from laboratory analysis	Used propanol/sodium hydroxide mixture Calcium Chloride, AR Sodium Carbonate, AR Fehing's solutions (A&B), NaOH + methanol Akali	Other alkaline materials Siag Dust Alkaline materials Sodium carbonate Mixed indicator 5	Manganese II Sultate, AK Bromocresci Limed, AR Bromocresci Cireen KCI & AgCI Solution Ferrous Sultate, AR Magnestum Chloride, AR Sodium Flouride, AR Potassium Thiocyanate	Buffer Solution (pH 7, 4 & 10) Ferroin Solution Disthylene Glycol, AR Sodium Thiosurfate, AR Patassium Iodide, AR Patassium Sulfate, AR Magnesium Sulfate, AR Petrous Ammonium Sulfate Ferrous Ammonium Sulfate
i an	3/12 3511 3551 3511	3523 3833 3222	3825 3825 3825 3825	3825 3825 3511 3111	· · · ·		8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3514 3514 3514 3514 3514 3514 3514 3514
	 Mayer Steel Pipe Corporation Consolidated Industriel Gases, IncBalintawa Sime Darby Filipinas, Inc. Superior Gas and Equipment Co., Inc. (SUGECO) 		 Philips Semiconductor Phils, Inc. Pacific Semiconductors, Inc. Matorola Philippines, Inc. Automated Microelectronics, Inc. 				Rhone-Poulenc Agrochemicals Philippines, inc. Rhone-Poulenc Agrochemicals Philippines, inc.	Rhone-Poulenc Agrochemicals Philippines, Rhone-Poulenc Agrochemicals Philippines,
INST_ID 13-80-0043 13-80-0023 13-7-0002	13-78-0006 13-79-0005 13-79-0011 13-80-0018	13-80-0047 13-78-0002 13-80-0007	13-80-0055 13-80-0056 13-80-0057 13-80-0057	13-80-0053 13-80-0063 13-77-0004	13-80-003 13-80-000 13-80-000 13-80-002 13-80-003 10-003 10-003 10-003 10-003 10-003 10-003 10-0	13-80-0041 13-80-0047 13-80-0052 13-30-0052 13-80-0074 13-80-0004	13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001	13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001 13-80-0001

EMB Hazardous Waste Tracking Database

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13-80-0012		3511	DECA sludge (formed during septh of Ca content from molasses	1040		- F	-	۰ <i>د</i>
13-80-0014	Resins, Inc.	3511	Calcium sulfate/sulfite	1010	00 e	000	c	
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		1040	00 T	202) c	
13-80-0040	Abbot Laboratories (Philippines)	3522		1040	00121	200	а <i>с</i>	i a
13-80-0040	Abbot Laboratories (Philippines)	3522	Ferrous sulfate dried	1040	00.41	200) C) (C)
13-80-0040	Abbot Laboratories (Philippines)	3522	fron sulfate USP granules	10401	12.00	о С У У У У		5 en
13-80-0040	Abbot Laboratories (Philippines)	3522	Iron sultate dhed	000	18.48	MIC	ı ⊢	Ξ
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Non-toxic salts	200	01-10- C-2-0	-		: c
13-80-0063	Eveready Battery Company (Phils.), inc.	3834	Non-toxic salts (ZnCi2 solution, NH4Ci powder)		21.0	307) C	
13-80-0074	Upjohn Inc.	6170	Non-toxic salts	1040	00 C	22 ⊦	ے د) -
13-80-0086	Honda Philippines, Inc.	3846	Phosphating line studges	1040	- 08 C	- 1-) C	
13-80-0017	Polyphosphates, inc.	3511	Arsenic sludge - mixture of As2S3 ppt.,hitler aid & H3FU4		0.00)	
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522	-	2402	00.6	Mag		
13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Arsenic (III) oxide	20402	00.0	20		
13-80-0038	Astra Pharmaceuticals (Phils.), inc.	3522				307		C
13-80-0063	Eveready Battery Company (Phils.), Inc.	3834	Cadmium			2° ⊦) (
13-80-0080	GST Philippines, Inc.	3712			10.00	• •		v
13-80-0080	GST Philippines, Inc.	3712	Refractory bricks		48,00	- 3		5 6
13-80-0080	GST Philippines, Inc.	3712	Milt scale	0405	00,140,1	- 1		5 6
13-80-0080	GST Philippines, Inc.	3712	EAF stag	0405	4,860,00	- (}	a a
13-77-0010	SMC-SMPP-Farola Packaging Products (Mia. Glass)	3620	Inorganic chemical waste (ceramic paints)	D406	1,200.00	1 و	- (
13-79-0013	C. C. Unson Co., Inc.	3834	Lead drosses/scrap plates	D406	10.761.1	1	5	**
13-80-0013	Unitox Industrial Corporation	3511	Lead dross	D406	3.00	-	21	~~~
13-80-0013	Unilox Industrial Corporation	3511	Lead saits/soap powder spillage and contaminated w/ dust/rej	D406	150.00	KGS	ħ . (\$ I
13-80-0013	1 Inilox Industrial Corporation	3511	Dissolved lead salts from chemical analysis of the product	D406	80.00	-	ы	G
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		D406				
13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Lead acetate and lead oxide yellow	D406	32.00	GRM		
13-80-0048	H.B. Futter (Philippines), Inc.	3529	Welding rod	D406	5.00	KGS		
13-80-0058	Zilog Philippines, Inc.	3825	Sludge (with levels of Pb)	D406		I	1	ſ
13-80-0059	AMI (Philippines), Inc.	3825	Lime-neutralized metal studge (with high levels of Pb)	D406	9.52	F	ום	ם :
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Lead compounds	D406	2.05	oum	⊦- (r í
13-80-0063	Eveready Battery Company (Phils.), Inc.	3834	Lead	D406	0.05	 :	2	2 •
13-80-0080	GST Philippines, Inc.	3712	WTP studge	D406	38,110.00	ם <u>מ</u>	-	≪ ⊃
13-80-0064	Epic Electronics Industries Corporation	3825	Lead (BF4) 250%	D406	20.00	202X	. . .	c J
13-80-0084	Epic Electronics Industries Corporation	3825	Pb-Ni nickel brightener	D406		0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ז נ	c -
13-80-0001	Rhone-Poulenc Agrochemicals Philippines, Inc.	3514	Mercuric Suffate, AR	1040	0.10	002	2	-
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		0407	00.05			
13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Mercury (II) chloride and mercury (II) oxide yellow		500	, r	C	a
13-80-0063	Eveready Battery Company (Phils.), Inc.	3834	Mercury/mercuno cnionge	2020	10.01	- =		- 1
13-80-0064	Philips Electronics and Lighting, Inc.	0700 0700 0700 0700 0700 0700 0700 070	Mercury		18.00	i 1-		+ <
13-78-0005	Padoson Steinless Steel Corporation	7125	Situage ped cake		200.00	KGS	0	
13-78-0006	Mayer Steet Pipe Corporation	2712	zi i centri di mari di marice Ali minimi si dahate	D499	100.00	KGS	٥	-
13-/8-0006	Mayer Steel Pipe Corporation	3522		D459	750.00	KGS	0	
13 20 0038	interce, into Actra Pharmanautinale (Phile) Inc	3522		D499				
13-80-0040	Abbot I aboratorias (Philiopines)	3522	Selenium sulfide micronized	D499	00.6	KGS	۵	n
13-60-0040	Abbot 1. aboratories (Philipoines)	3522	Potassium metabisulfite	D499	0.81	KGS	۵	ល
13-90-0040	Abbot 1 aboratories (Philippines)	3522	Cupric chioride USP	D499	0.03	KGS	۵	ന
13-80-0046	Colgate-Palmolive Philippines, Inc.	3523	Sodium sulfite	D499	524,870.00	=	• ⊣	- :
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Other saits and complexes	D499	50.75	UDN COM	~ (τ
13-80-0074	Upjahn Inc.	6170	Other saits and complexes	D499	300.00	KGS	C	a i

EMB Hazardous Waste Tracking Database

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13-80-0026	Fuller O'Brien Paint Co., Inc.	3521	Feint studge	ERN?	300.00	U	٥	۵
13-80-0031	Charter Chemicals and Coating Corporation	3521	Washing solvents	ER(12			0	
13-80-0036	Merck, Inc.	3522	Organic solvents	ER(1)	8.64	F	٥	s, D
13-80-0054	Rowell Lithography and Metal Closure, Inc.	3819	Waste solvent mixture	EGUS	4.80	KGS	0	M
13-80-0057	Motorola Philippines, Inc.	3825	Silver epoxy	E602	676.00	U	٥	~
13-80-0057	Motorola Philippines, Inc.	3825	Used acetone	E602	0.50	CUM	Ŀ	A
13-80-0058	Zitog Philippines, Inc.	3825	Solvents	ERM2	160	CUM		#
13-80-0060	Amkor/Anam Pilipinas, Inc.	3825	Solvent-based inks		5.67		0	
13-80-0065	am Phils. Inc.	3909	Solvent-based adhesives, resins, paints (wet scrap)	2002	0.0 V V V V V	2	6	0
13-80-0087	Alpolac Incorporated	3513	Solvent washings	EDUZ	2000/H	3 (• C	• ⊢
13-20-0000	betten Philippines Inc	3832	Rosin flux	E602	90'00 90'00		5 C	· I
13-77-0003	SMPP - Farola Carton Plant	3412	Ink washings	E699	N .71	NO0	<u> </u>	:
13-77-0004	The Shell Chemical Co. (Philippines) Inc.	3511	Organic sludges	6601	S 100	31	ı _	a
19-79-0010	Republic Chemical Industries, Inc.	3529	Polymer combi. of epichlorohydrin, bisphenol A, epoxy fesin,	AROLI	8.5	Ni č	. C	Τ
13-80-008	Packacino Products Corporation	3412	ink washings		871	HOC C	1	
12-80-0026	Polymer Chemicals Inc.	3613	Used filter aids	E000	0.001	5	c	· v
12-00-002	Nirvon Paint Philippines. Inc.	3621	Dirty or wash thinner	E693	19.20		2	ъ
	tuppent and tuppered, me. Dare Accelere and loke Phile Inc	3521	Wastewater contaminated with paints, vamishes	E699	30.02		ם ב	: c
5700-00-51		3521	Contaminated rugs (paints, varnishes)	E669	6.50	-	، د	2 0
6700-00-51	POOT COOMING AND HIMS FINDS HIMS	3522	Inks	E699	100.00	KGS	5 6	0 3
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1000-51-51	Cardinal Industrial, file.	144	Discondi AR	F701	2.50	3	-	- :
13-80-001	Knone-Poulenc Agrocoemicals Finippines, inc.	100		F701	2,400.00	5	۵	>
13-80-0023	Kemwerke, Incorporated	200		F701	0.45	D		
13-80-0033	BOIE Incorporated	2000	Classical Contraction of the con	F701	12.00		۲	
13-80-0033	BUIE incorporated	1500	Ornanic solvants	F701	120.00	3	ڻ <u>ا</u>	-
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	2500	Colymonts (Jahorathau)	F701	150.00	5	٥	~ 1
13-80-0043	interphil Laboratories, inc.	3500	Lab solvents	F701	5.00	2	٥	ລ -
13-80-0045	Paizer, inc.	1200	Creation solvents with flash moints >61 oC	F701	1.73	KGS		
13-80-0047	Johnson and Johnson (Philippines), Inc.	0700		F701				
13-80-0054	Rowell Lithography and Metai Closure, Inc.	2000	Cristente I ITS.2	F701	1,000.00		a	⊢ :
13-80-0055	Philips Semiconductor Philis, Inc.	2513	Orosarie of 0.00 Orosarie snivent - flash point 61 degrees C	F701	100.00		۵	> ·
13-80-0087	Alpolac, incorporated	200	Organo sorrante mode your of segments of segments of segments of the second section of the second se	F702	2,450,00		۵ ١	-
13-79-0007	Cardinal Industrial, Inc.	1200		F702	100.00		۵	0
13-79-0014	Data General Phils., Inc.	2614		F702	5.00		۵	-
13-80-0001	Rhone-Poulenc Agrochemicals Philippines, Inc.	1 1		F702	1.00		۵	
13-80-001	Rhone-Poulenc Agrochemicals Philippines, Inc.	1100	terarycioust, cv. Matrid Sthut Ketone AR	F702	20.00		۵	
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13-80-0002	Mead Johnson Philippines inc.	3410	Diatamaking snent solvent (nerchloroethviene, n-butanol)	F702	720.00	5	۵	
13-80-0038	Packaging Products Corporation	2500		F702				
13-80-0038		26020	Solvents (Jaboratory)	F702				1
13-80-0043		3500		F702	1,000.00		۵	<u> </u>
13-80-0045	PHIZER, INC.	3523	Organic solvents with flashpoint < 61 oC	F702	98,237.00	GRM		
13-00-0047	Downing the province of Metal Closure Inc.	3819		F702			ſ	ŀ
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EMB Hazardous Waste Tracking Database

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EMB Hazardous Waste Tracking Database

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	13-78-0011	Sime Darry Filipinas, lite. Acto Dharmaceuticale (Dhile) lice	3522		1103				
	13-00-00-01	Asula Fridmaccumers (Fime.), ma. Dhilinaha Befining Company Inc. (Linilever)	3523	Food process wastewater	1105	5,000,000.00	KGS	}-	
	13-72-0011	PNOC Shinning and Transport Corporation	7132	Oil/water mixtures	1105	5.00	כ	⊢	
	13-79-0005	Consolidated Industrial Gases, IncBalintawa	3511	Used compressor oil with water	1105	2.00	I	Ō	
	13-79-0010	Republic Chemical Industries, Inc.	3529	Oil/water mixtures/grease/kerosene	1105	150.00	5	۵ ،	
	13-80-0029	BASF Coatings and Inks Phils. Inc.	3521	Wastewater contaminated with oit/water mixtures	1105	30.00	CUM	5	
	13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522		105			_	
	13-80-0081	Philippine Worldwide Mfg. Plastic Corp.	3560	Oil/water mixture (1514:1)	105	00.05/,6/	בי ב		
	13-77-0004	The Shell Chemical Co. (Philippines) Inc.	3511	Containers (drums, fiberboard kegs, sacks)	J201	37,500,00	25X +		
	13-77-0011	PNOC Shipping and Transport Corporation	7132	Empty paint containers	1201	2002	- 2	c	
	13-79-0007	Cardinal Industrial, Inc.	3521	Containers	1201	200.002	3	A	
	13-79-0009	Pilipinas Kao, Inc. (Household Division)	3523	Conatiners (plastic carbouys, 20-liter capacity)	1201	932.00 53.00	38		
	13-79-0009	Pilipinas Kao, Inc. (Household Division)	3523	Containers (plastic carbouys, 50-liter capacity	1201	20.00	3	-	
	13-79-0010	Republic Chemical Industries, Inc.	3529	Screp tin cans with epoxy residue	1201	50.00	2 C C C	. ,	
· .	13-79-0010	Republic Chemical Industries; inc.	3529	Used drums containing residue of EPS cuttings/trimmings/dust	1020	3,028.00	3.	c	
	13-80-0001	Rhone-Poulenc Agrochemicals Philippines, Inc.	3514	Drums (200 li capacity)		04.0	- +	3 6	
	13-80-0001	Rhone-Poulenc Agrochemicals Philippines, inc.	3514	Liners, Pouches, Bags	1020	2.00	50,8	<u>م</u> د	
	13-80-0002	Mead Johnson Philippines, Inc.	2115		100		۰ ۲	•	
	13-80-0017	Polyphosphates, Inc.	1102	Screp orums previously containing yearow prospoorus	1201	48.00	KGS		
	13-80-0022	EM-POL Corporation	3013	Empty oung capacity drum containers	1020	12.00			
8	13-80-0024	Hoechst Philippines, Inc.	8014 4 100	Emply arums Arminet are adviration materials	1001	111 50	• •-		
; -	13-80-0027	Nippon Paint Philippines, Inc.	202	Container or packaging materials	1061	6.50	• }	٥	
1	13-80-0029	BASF Coatings and inks Phils, Inc.	1000	Used carrs, collitative s, paper page	1001	300.005	SCa	. 0	
9	13-80-0030	Atlantic Coalings, Inc.	1709		1021	30.00	KGS	0	
	13-80-0042	Wamer Lambert Philippines, Inc.	7700	Droken glasses Drokon alaster	1001	25.00	KGS	0	
	13-80-0043	interprisi Laboratories, inc.	3500	oroven glasses Immodiate containers (PE) hads of harardous chemicals	1201	500.00	KGS	н	
	13-00-00-51	Prizel, iric. Docific Semicrosti idore Inc	3825	Podable containers previously containing toxic chemical sub	1201	2,000.00	PCS		
	13-50-0052	Pacific Settleoneuclos, Ric.	3826	Chamical contained	1201				
	10-00-02-01		36.20	EDS of this contained	K301	360.00	KGS	٩	
	0100-67-61	Republic Chemical Industries, inc.	2630	erro cumiga mumingo con	K301	0.78	F-		
	13-/9-0010	Republic Chemical Industries, Inc.	3570	Cured silicone sealants	. iogy	58.00	KGS	0	
		Republic Unemical Industries, inc.	35.70		FOEX	37.00	KGS	-7	
	13-/9-010	Republic Chemical Industries, Jic. Sime Darby Diference too	3554	Carbon black sweepings	K301	14,400.00	KGS	۵	
		onnerday rupulas, no. Gardae latarational Dhilioniase for	3515	Solidified and entremped wastes	K301	0.20	-	۵	
	12-00-0020	Charter Chemicals and Coatine Connoration	3521	Solidified and polymerized wastes	K301	500.00	KGS	۵	
	13-80-0048	H B Fuller (Philipoines), Inc.	3529	Polyvinyl acetate	K301	400.00	KGS	۵	
	13-80-0057	Motorola Philippines, Inc.	3825	Cull runners	X301	156.00	٣	ব ।	
	13-80-0012	Union Aimomoto, Inc.	3511	Mud blocks (from the prod'n of caustic soda using the Hg pro	K302	12.00	⊷		
	13-77-0012	EXXON Chemical Philippines	3540	Chemical or chemical combination	L401	3,33	-	۵	
	13-80-0054	Roweil Lithography and Metal Closure, Inc.	3819	Organic chemicals (mixed with E602, F701, F702)	L401		ŀ	ſ	
	13-77-0012	EXXON Chemical Philippines	3540	Chemical or chemical combination	1402	3.33	- ,	3 F	
	13-79-0009	Pilipinas Kao, Inc. (Household Division)	3523	Washwater containing aromatics	1402	40.00		J-	
	13-80-0020	Borden International Philippines, Inc.	3515	Phenolics (part also of aqueous-based resins as kettle washi	- 402	40E 40	201	_	
	13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Aromatics and phenolics	1402	04:004	8115		
	13-80-0054	Rowell Lithography and Metal Closure. Inc.	3819		1402		000		
	13-80-0047	Johnson and Johnson (Philippines), Inc.	3523	Diethyl ether	1403	87.1 200 000 030	0 0 0 0 0 0 0 0	F	
	13-77-0007	Philippine Refining Company, Inc. (Unitever)	3523	Washings from floor and equipment		0.00.00	22 ⊢	- 6	
	13-79-0009	Pilipinas Kao, Inc. (Household Division)	3523	Returned drained snampoorcongitioners/racial cleansers	1 404	50.00	- }-	- ۲ د	
	13-79-0009	 Pitipinas Kao, Inc. (Household Division) 	6766	vvasrivater containing ratiy acconois	L>F7		•		

EMB Hazardous Waste Tracking Database

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UNST ID	INSTNAME	PSIC1	PSIC1 WS NAME	WS NUMBER WS VOLUME		WS_UNITS	WS_STORE	WS_METHOD
	Ditinings Kao Inc. (Household Division)	3523	Washwater containing surfactants	L404	135.00	۲	- -	¢,
	Ditaines Keo Inc. (Household Division)	3523		L404	240.00	⊢	4	Ø
	r mparas rad, aro. (noocener crister) Arto: i therefore /Dhiloninge)	3522		L404	24.12	כ	٥	¢
		2674		1404	0.05	KGS		
1400-08-51		3124	Budranal commonite 5/methanol/formamide/mineral spirits mixt	1405	36 .00	KGS	ю	
0200-02-51	vrigiey Frinkpippies, mo.	5710	Chamical or chamical combination	1.499	3,33	⊢	a	ъ
2100-77-61	EXAUN UNBRINGH FUNDPINES	5525	Washwater crostaining industrial chemicals	1499	115.00	F	1 -1	ß
13-79-00-04 A	Philpinas Nao, Inc. (nouseriold University) Device for	. 3511	Tar from ohthalic anthorning more clant	L499	21,000.00		۵	a i
	Cashing Brock at International The	3522	Organic laboratory chemicals	L499	751.45	KGS		æ
	oterning strouddes unerstationalitation. stytes i aboratorias /Dhilippoines)	3522	Metronidazole	L499	3.00	KGS	۵	æ
		1000	Carchaele todium	1 409	00.6	KGS		۵
13-80-0040	Aboot Laboratones (#nuppines)	7700	odoutiditit sources Tuitabi teroi HCI	1499	0.03	KGS		ъ
13-80-0040	Abbot Laboratories (Prinippines)	7700		000	0.03	KGS	n	Ω
13-80-0040	Abbot Laboratones (Prisippines)	2225		1,490	12.00	KGS	+ C	ß
13-80-0040	Abbot Laboratones (Philippines)	3524 DE22	U-pisecoostated are not A strington malage NG	1 400	1 20	S C Y) C	- a a
13-80-0040	Abbot Laboratories (Philippines)	7700		0041		N S S	а с	i az
13-80-0040	Abbol Laboratories (Philippines)	3522	Magnesium acetate	1400		000	2	מו
13-80-0040	Abbot Laboratories (Philippines)	3522	Bullamedi) hydrochlonde		20.0	252	ć	5 0
13-80-0040	Abbot Laboratories (Philippines)	3522	Chlorpheniramine maleate	L499		NGS	5 (וס
13-80-0040	Abbot Laboratories (Philippines)	3522	Dopamine HCI	L499	0.60	KGS	Ċ	n) i
13-80-0040	Abbot Laboratories (Philippines)	3522	Enoxacin sesquihydrate	L499	4.50	KGS		â
13-80-0040	Abbot Laboratories (Philippines)	3522	Sodium hydrogen divalproate	L499	3.35	KGS		හ
13-80-0040	Abbot I aboratories (Philippines)	3522	Lidocaine HC?	L499	0:30	KGS	۵	ወ
13-80-0040	Abort I aboratorias (Philioninas)	3522	Bromhexine HCi	L499	0:30	KGS	0	œ
500000 et	Industriation of the second	3523	Other organic chemicals	L499	1,073.20	GRM		
		3529	Gear oil	L499	0.25	3	۵	o
13-80-0046	H. B. Fuller (Philippines), and	3529	Brake fluid	L499	0.13	IJ	۵	o
12 80 0040	Let a fight (Philippings) for	3529	Grease	L499	0.12	Ę	٥	υ
12 50 0040	H. B. Briller (Philippines), 415.	3529	ATE oil	L499	0.25	כ	Ω	υ
13-80-0048	H B. Fuller (Philiopines), inc.	3529	Hydraulic oil	1,499	0.25	ב	۵	υ
13-80-0048	H R Fuller (Philippines) Inc.	3529	Engine of from spills	L499	3.00	5	a	υ
13-80-0062	Philips Consumer Products	3832	Solder flux	L499	250.00	5	ц,	S, W
13-80-0074	Upichn Inc.	0110	Organic chemicals	L499	300.00	כ	Ċ	
13-80-0083	Alleero Microsvstems Phils. Inc.	3825	Genesolv 2004	L499	0.75	-	۵	H, W
13-79-0001	Purefeods Concaration	3111	inoculated culture media (eg. agar/broth)	M501	730.00	KGS		Z, D
12-80-0043	Internhill aboratories inc	3522	Bandaoes from clinic	M501	10.00	KGS	D	-
13-77-0004	The Shell Chemical Co. (Philipoines) Inc.	3511	Asbestos	M502			۵	
13-80-0047	Inhuson and Johnson (Philipoines). Inc.	3523	Asbestos waste	M502	4	KGS		
13-77-0005	YSS Laboratories Company. Inc.	3522	Tablets/capsules (methyldopa, dexamethasone, hydrochlorothia	M503	3,90	KGS	٩	۵
13-77-0005	YSS Laboratories Company. Inc.	3522	Vials/ampules (phytonadione, dexamethasone sodium phosphate,	M503	5.75	KGS	۵	٥
13-80-0002	Mead Johnson Philippines, Inc.	3112	Acetaminophen tablets	M503	300.00	KGS	۵	۵
13-80-0002	Mead Johnson Philippines. Inc.	3112	Flammable personal care preparations	M503	700.00	KGS	۵	•••
13-60-002	Mead Johnson Philippines, Inc.	3112	Vitamin preparations	MSG3	300.00	KGS	۵	D, B
13-80-0033	BOIE Incorporated	3522	Assorted expired drug products (tablets, capsules, dry syrup	- M503	3.50	KGS	F	
13-80-0033	BOIE Incorporated	3522	Assorted expired drug products (syrups and suspensions)	M503	7.50	5	۲	
13-80-0034	Boie-Takeda Chemicals. Inc.	3522	Pharmaceutical wastes and drugs (expired)	M503	5.50	H-	Z	۵
13-80-0035	Boots Pharmaceuticats (Phils.), Inc.	3522	Pharmaceutical wastes and crugs	M503	1,275.00	KGS	۵	-
13-80-0036	Merck, Inc.	3522	Pharma drugs	M503			0	
13-80-0037	Bayer Philippines, Inc./Healthcare Division	3522	Expired pharmaceutical products	M503	8	۲	۵ I	
13-80-0038	Astra Pharmaceuticals (Phils.), Inc.	3522	Pharmaceutical wastes	M503	1,800.00	KGS	0	0
13-80-0039	Sterting Products International, Inc.	3522	Pharmaceutical drugs	M503	800.00	202 2	י כ	å S
13-80-0040	Abbot Laboratories (Philippines)	3522	Vit, A palmitate USP beadfets	M503	0.02	5	ב	α

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	13-80-0041		Expired tablets, capsules			SCX.	6	0
	13-80-0042	tes, Inc.		500M		2023) C	
	13-80-0043		Pharmaceutical waste (expired products and drugs)	menus 1		202	5 C	
. *	13-80-0044			SUCM	600.00	000) ⊦	
	13-80-0045			ENGW		200	- ٢	
	12-80-00-6	na Phils. Inc.	Phama	W503	107775°L	200	1 +	. <u>a</u>
	13-80-0067	J		M503	77.UT	200	- a	
	13-80-0068	ģ		EDGM		22	5 0	- C
	13-80-0068		Pharmaceutical waste (liquid)	M503		ΞŶ	• c	
	12-80-0069			M503	6,823.00	202	2	2 -
	13-80-0070	ries (Phil.) Inc.	Expired pharmaceutical drugs, raw and packaging materials	M503			~	
	13-80-0071			EDGM	900.00	202	4	1
	13-80-0072	ation	Pharmaceutical waste	M503	24 00	200	c	ĩ
	13-80-0073			M503	0.15	000	3	
	13-80-0074			MOUS	00:000 00 002	KGS KGS	0	- G
	13-80-0077			COCM1	200.000	KGS		
	13-80-0077			MKD	200.00	KGS KGS	I	-
	13-80-0077			MSDA	-		0	
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	13-79-0012		_			- 55	<u>م</u> د	3
	13-80-0088	Astron Philippines Inc. 3632		000M	00.004	sex Xex	• D	ہے:
2	13-80-0075	Phils., Inc.		NEAD	32.00	2 =	•	
	13-80-0033		-	UFAN	0.50		۰۰	
	13-80-0033	BOIE Incorporated		SUBA	40.00		- H-	
	13-80-0033		Chioroform	NP07	36,00	1	1	
	13-80-0033	BOIE incorporated		N921	4,50	C	4	
	13-80-0033	BUIE Incorporated		N975	120.00	5		≻
	13-80-0019	Consolidated Industrial Gases, Inc. (Mandaluy		N975	1,200.00	Ľ	۵	S, W
	13-80-00-51		Froired	966N				
	13-80-0024					-		
	13-77-0008	SMG - IMOIG MARICIACIONING FRANK Malaboo Soon and Oil Jock striat Colling						
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	13-78-0008				•			d
	13-79-0011		Grease waste		400.00	KGS	4	5 6
	13-78-0011		Waste oil		80.08	בי ב	-	2
	13-78-0011		Asbestos wastes		200.005	202	3 ⊷	C
	13-78-0011	Polyglass International Manufacturing Corp.	Solidified & polymerized waste		M).		•	Ľ
	13-78-0012	FEJEA Enterprises				5	c	C
	13-78-0016	Metal Plus Industries	Diluted		0.002	Ĵ	>	,
	13-78-0016	Metal Plus Industries	Plating		20.00	KGS	c	
	13-78-0016	Metal Plus Industries 3720	Diluted chromium compounds			2	1	
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379011 Test Standing 200 Control Standing 200	100-01-01		3720	Dituted Sulfuric Acid		30.0		۵	۵
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373-001 Umb Mark Mark Mark Mark Mark Mark Mark Mark	13-78-0015		3720	Acid waste		120.0	•	۵	
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137-3000 Deriva Nature Carling Carlin Statistic Carling Carlin	13-78-0020			Phosphoric		5.0		u	I
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Philippine Int Corporation3529Furmed air1,50TMalabon Scap and Olis Ind. Corp.3117Wash water53.00TMalabon Scap and Olis Ind. Corp.3117Filter residue50.00TMalabon Scap and Olis Ind. Corp.3117Filter residue50.00TVol Sham Laurotry, Inc.3134Texter residue18.00TVol Sham Laurotry, Inc.3134Texter residue51.118.00TNetwork Philippines, Inc.3134313418.00TRomm and Haars Philippines, Inc.3511351110.00Lock Philippines, Inc.Romm and Haars Philippines, Inc.35212521Resicon Enterprises, Inc.3523Asian Chemical Inc.352335233523Asian Chemical, Inc.3523Asian Chemical Inc.352335233523354018.00Asian Chemical, Inc.35233540351310.00Asian Chemical Inc.3523354010.00Asian Chemical Inc.3523354010.00Asian Chemical Inc.3523354010.00Asian Chemical Inc.35233540Asian Chemical Inc.35403540Asian Chemical Inc.35403540Asian Chemical Inc.3540Asian Chemical Inc.3540Asian Chemical Inc.3540Asian Chemical Inc.3540Asian Chemical Inc.3540Asian Chemical Inc.3540Asian Chemical Inc. </td <td>13-79-0026</td> <td></td> <td>3529</td> <td>Printing inks and lump forms</td> <td></td> <td>1.0</td> <td>ب و</td> <td>г<u>о</u></td> <td>0</td>	13-79-0026		3529	Printing inks and lump forms		1.0	ب و	г <u>о</u>	0
Mataborn Scap and Olis Ind. Corp.3117Wash water50.00TMataborn Scap and Olis Ind. Corp.3117Filter residue117Kesh waterMataborn Scap and Olis Ind. Corp.3117Filter residue116.00TJVC Steam Launolty, Inc.3134Textile wastes16.00TJVC Steam Launolty, Inc.3134Textile wastes16.00TPateriol Colla Far East Privipiones, Inc.3511Textile wastesLRohm and Haas Philippines, Inc.3511StatLChemphil-MuG, Inc.3511StatLRobust Chemical, Inc.3521StatLResidor Enterprises, Inc.3523StatLResidor Enterprises, Inc.3523StatLResidor Enterprises, Inc.3523StatLResidor Enterprises, Inc.3523StatLResidor Enterprises, Inc.3523StatLResidor Enterprises, Inc.3523StatResidor Enterprises, Inc.3523StatResidor Enterprises, Inc.3523StatResidor Enterprises, Inc.3540Residor Enterprises, Inc.3540 <td>13-79-0026</td> <td></td> <td>3529</td> <td>Fumed air</td> <td></td> <td>1.6</td> <td>۰ ۲</td> <td></td> <td></td>	13-79-0026		3529	Fumed air		1.6	۰ ۲		
Malabori Scap and Olts Ind. Corp. 3117 Fitter residue JVC Steam Laundry, Inc. Textile wastes 13.4 JVC Steam Laundry, Inc. 3134 Textile wastes JVC Steam Laundry, Inc. 3134 Textile wastes JVC Steam Laundry, Inc. 3134 Textile wastes Application Inc. 3134 Textile wastes Rotm and Hase Philippines, Inc. 3511 Textile wastes Rotm and Hase Philippines, Inc. 3511 Secondentile Philippines, Inc. Rotm Schmidal Industries Corp. 3511 Secondentile Philippines, Inc. Ducket Boy Philippines, Inc. 3521 Secondentile Philippines, Inc. Resider Enterprises, Inc. 3523 Secondentile Philippines, Inc. Asian Chemical, Inc. 3523 Secondentile Philippines, Inc. Asian Chemical, Inc. 3523 Secondentile Philippines, Inc. Asian Chemical, Inc. 3520 Secondentile Philippines, Inc. Asian Chemical, Inc. 3540 Secondentile Philippines, Inc.	13-79-0027		3117	Wash water		50.0	⊢ •		а
JVC Steam Laundry, Irc. Textile wastes Pepsi-Cola Far East Trade Devf. Co., Inc. 3134 Metoxide Philippines, Inc. 3134 Netoxide Philippines, Inc. 3511 Rom and Haas Philippines, Inc. 3511 Rom and Haas Philippines, Inc. 3511 Rom Hugs, Inc. 3511 Rom Philippines, Inc. 3511 Trimex Chemical Inc. 3511 Reside Therprises, Inc. 3523 Asian Chemical Inc. 3523 Asian Chemical Inc. 3523 Asian Chemical Inc. 3513	13-79-0027		3117	Filter residue		18.0	ح م		0
Pepsi-Cola Far East Trade Devit, Co., Inc. Matoxide Philippines Corporation Rohm and Haase Philippines, Inc. Chemphil-LMG, Inc. (Inorganic Division) Trimex Chemical Industries Corp. Duckd Boy Philippines, Inc. Ressevelt Chemical, Inc. Ressorat Chemical, Inc. Asian Chemical Corporation Philipinas YTK Industry, Inc.	13-79-0025			Textile wastes				1	<u>م</u>
Matoxida Philippines Corporation Rohm and Haas Philippines, inc. Chemphil-LMG, inc. (inorganic Division) Trimex Chemical Industries Corp. Dutch Boy Philippines, Inc. Roosevelt Chemical, Inc. Resicor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0006		3134			-			
Rohm and Haas Philippines, Inc. Chemphil-IMG, Inc. (Inorganic Division) Trimex Chemical Incustries Corp. Duch Boy Philippines, Inc. Roosevelt Chemical, Inc. Resicor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0005		3511						
Chemphil-LMG, Inc. (Inorganic Division) Trimac Chemical Industries Corp. Dutch Boy Philippines, Inc. Rossevett Chemicali. Inc. Resiscor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0011		3511						
Trimex Chemical Industries Corp. Dutch Boy Philippines, Inc. Roosevelt Chemical, Inc. Resicor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0015	-	3511						
Dutch Boy Philippines, Inc. Rossevelt Chemical, Inc. Restor Enterprises, Inc. Asian Chemical Corporation Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0016		3511						
Roosevelt Chemical, Inc. Residor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0028		3521						
Resicor Enterprises, Inc. Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0032		3521		•				
Asian Chemical Corporation Pilipinas YTK Industry, Inc.	13-80-0049		3529						
Pilipinas YTK Industry, Inc.	13-80-0050		3540						
	13-80-0053	-	3819	- -					

EMB Hazardous Waste Tracking Database

WS_NUMBER WS_VOLUME WS_UNITS WS_STORE WS_METHOD ന സ് т m ⊢-S S S Б Ξ 3.95 2.240 4.530 0.430 0.430 0.430 0.430 0.222 0.13 0.13 0.13 0.13 0.13 0.13 0.13 1.25,40 1.25,40 1.75,84 1.75,84 1.75,84 1.75,84 1.75,841 47,972.00 14,934.00 72.00 90.00 0.20 (ettle washings of aqueous based resins PSIC1 WS_NAME Solidified and polymerized wastes Spent caustic soda kettle washins Polychlorinated biphenyls Perchloric acid/acetic acid Organic toxic chemical Vitrobenzene/benzene Ammonium hydroxide ydrochloric acid Acetic anhydride **Fextile wastes** Sulfuric acid Vaste water 2-Propanol Acetonitrile Acetic acid Chloroform Anh. ether Vitric acid Phenolics Methanol vridine Acetone Sludge -jexane Plating Butanol Acids Alkali 6170 3211 3511 **G.Femandez Plating Services** INSTNAME G.Fernandez Plating Services G Fernandez Plating Services orden International Phils., Inc. orden International Phils., Inc. Paneton Philippines, Inc. Integral Chemical Corporation orden International Phils., Inc. orden International Phils., Inc. Gelmart Industries Phils., Inc. Gelmart Industries Phils., Inc. Gelmart Industries Phils., Inc. Aanila Electric Company Ianila Electric Company Sanofi Philippines, Inc. **3OIE** Incorporated **30IE Incorporated** 301E Incorporated OIE Incorporated 30IE incorporated **BOIE Incorporated IOIE Incorporated** OIE Incorporated **SOIE Incorporated** 3OIE Incorporated BOIE incorporated 30IE incorporated **30IE Incorporated** 301E Incorporated 30IE Incorporated IOIE Incorporated IOIE Incorporated 13-80-0076 13-80-0095 13-80-0095 13-80-0095 13-80-0094 3-80-0090 0600-08-01 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0094 13-80-0085 3-80-0069 3-80-0090 3-80-0093 3-80-0033 3-80-003 3-80-0093 3-80-0094 3-80-0094 13-80-0094 13-80-002 3-80-0094 3-80-009 13-80-0078 13-80-007! 8 - 23

 Table 8.4
 Estimate of Amount of Non-hazardous Solid Wastes

 Generated at Site Each Year

5,000,00. Trashi, screp meteriais, paper and plastics 1,000,00. Scrap metals, used building materials, cardboard paper, plastic bags, spent bleaching earth and household garbage 12.50 Worm-out wooden pallets, plastics, metal caps, ordinary garbage, absorbent materials (sawdust) 5.00 Empty plastics and paper bags, tin cans, steel cans, pails and drums 1,062.00 Spent fitter aid and spent yeast 2.52 Paper used in wrapping stainless steel coils, crates of delivery 5.40 Fitter residue from bleeching cake and flyash from bolier soot 1.18 Clays, silica, potash and iron 1.29 Cured, solidified and polymerized wastes
 36.00 Domestic and other production waste
 34.27 Solid wastes or gate runners coming from molding of diodes 1,872.00 Saw dust from collectors and trimmings of solid wood 10.00 Biodegradable, regular rubbish of the hospital BRIEF DESCRIPTION OF SOLID WASTES Nickel plating solution precipitate 1,000.00 waste paper, plastic, food waste 4.50 Scrap G.I. sheets and wires Garbage/trash, cullets 1.50 Empty paint containers 15.00 Wild grass PSICI SOLID OTY SOLID DES Banana peels Metal scraps 52.00 Lime slumy 180.00 Mills scale Garbage 73.00 Shudges 15.00 2,667.00 Cullets 00.08 00.09 01.00 TONNES 3710 3124 3124 3720 3320 3720 3117 3511 3511 3511 3133 3812 3712 3712 3111 3134 3412 3131 3511 SMC-SMPP-Farola Packaging Products (Mla. Glass) PNOC Shipping and Transport Corporation Manufacturing Services and Trade Corporation Consolidated Industrial Gases, Inc.-Balintawa Consolidated Industrial Gases, Inc. (Navotas) Philippine Refining Company, Inc. (Unitever) Continental Steel Manufacturing Corporation olyglass International Manufacturing Corp. databon Soap and Oit Industrial Co., Inc. ecific Paint and Oil Manufacturing, Inc. The Shell Chemical Co. (Philippines) Inc. Pilipinas Kao, Inc. (Household Division) Grand Cathay Food Mfg., Corporation Philippine Dairy Products Corporation San Miguel Corporation - Polo Brewer adoson Stainless Steel Corporation Procter and Gamble Philippines, Inc. Coca-Cola Bottlers Philippines, Inc. Republic Chemical Industries, Inc. wory Metal Manufacturing Corp. Labtech Manufacturing Industries SMC - Mold Manufacturing Plant astbrite Industrial Plating Corp. YSS Leboratories Company, Inc. Well Ever Electroplating Shop Mayer Steel Pipe Corporation Vew, M.E. Moses Enterprises EXXON Chemical Philippines **Jyson Surface Coating Corp.** Polymedic General Hospital SMPP - Farola Carton Plant Cleveland Textile Milts, Inc. nter-World Steel Mills, Inc. Airwei Food Products, Inc. Grace Park Industries, Inc. Sime Darby Plipinas, Inc. La Tondeña Distillers, Inc. Dualitech Chemical Com SMC - Plastic Case Plant SYSU International, Inc. issential Manufacturing Cardinal Industrial, Inc. constant Plating Center Signal Electric Ind. Inc. Purefoods Corporation P.I. Manufacturing, Inc. Gettech Electroplating ioldex Products, Inc. Aetal Plus Industries EJEA Enterprises INST ID INSTNAME 13-79-0011 13-79-0012 13-79-0003 13-79-0005 13-79-0006 13-79-0008 13-79-0009 13-79-0010 3-78-0012 3-78-0013 3-78-0015 3-78-0016 3-78-0018 3-78-0019 13-79-0002 13-79-0004 13-79-0007 3-78-0003 13-78-0010 3-78-0014 13-78-0020 13-78-0022 3-78-0023 13-77-0001 3-77-0013 3-78-0002 13-78-0004 13-78-0005 13-78-0006 13-78-0024 1000-62-61 13-77-0002 13-77-0003 13-77-0004 3-77-0005 13-77-0006 13-77-0007 13-77-0006 13-77-0005 13-77-0010 13-77-0012 3-77-0014 3-78-0001 13-78-0007 13-78-0008 13-78-000 3-78-0017 13-78-002 13-78-001 13-77-001

EMB Hazardous Waste Tracking Database

ESTIMATE OF AMOUNT OF NONHAZARDOUS SOLID WASTES GENERATED AT SITE EACH YEAR 18.00 Garbage from domestic pramises & offices, disposed obsolete and broken packaçing materisis that are non-hazardous, dry i 300.00 Scrap ferrous and non-ferrous materials, plastic secte, plastic carbouys, empty drums, paper and paperboards, scrap lumb 1.00 Domestic garbage, plastics, pieces of wood, spent refractoey bricks, broken cars, small pieces of metal, Zn & Al dross 100.00 Garbage - disposable/scrap wood, paper, plastics (PE, PP, PVC materials), steel, filling materials, construction materia 1.15 Fiber druns, kraft and plastic bags, tapes, comugated boxes, wooden pallets, office supplies, filter spools, sorubbing 1,000,00 70% fiber veste, 20% yam waste, and 10% dust and floor waste 143.00 Sludge generated from the reaction of bauxite and sulfuric acid in the production of liquid alum 6.33 Paper bags and plastic bags used to contain powder/flakes raw materials, used filter papers Solid waste of paints if any is rework and remix to produce low cost paint Expired drug products (tablets, capsules and dry syrups) Container bags(paper and plastics), cartons, rags, wooden pallets 30.00 paper bags and plastic sheets derived from pigment packaging Are and the second 80.00 Used plastics, cartons tomato suice foils, fish residues etc. 141.98 Sludge from sandfilters and conterninated process waste Filter residue (spent bleaching earth and carbon) BREFDESCRIPTION OF SOLD WASTES 97.00 Cartons, office garbage and other solid waste Paper and plastic bags pigment packaging 0.60 Paper plastic bags from pigment packaging 150.00 Garbage, milk-based nutritional powders 6.00 Pumice stone-sand 0.50 Sludge 0.70 Composed of ferrous sulfata/zinc dust Scrap empty paper and plastic bags 111.50 Paper sacks, tin cans, drums, rags boxes, plastics, drums, zipper tapes PSIC1 SOLID OTY SOLID DES TOWNES BARE DESCRITTOM OF SOLID 1,263.00 Lead drosses and screp plates 15.00 Mixture of zinc, iron, lead, etc. Pigment bags, cans, cartons 3,00 Returned chewing gum sands.pumice stones 168.00 Ordinary garbage Domestic waste 5.00 Studge cake 1.15 Fiber drums, I Solid westes **Ashes** 1.50 J 1.20 7,50 5.8 8 10,00 300.00 8 3710 3134 3135 3125 3125 3125 3177 6170 3211 3521 3521 3514 3112 1211 3834 3836 Superior Gas and Equipment Co., Inc. (SUGECO) Rhone-Poulenc Agrochemicals Philippines, Inc. Consolidated Industrial Gases, Inc. (Mandaluy Charter Chemicals and Coating Corporation Aonterey Farms Corporation (Cattle Farm) Pepsi-Cola Far East Trade Dev't. Co., Inc. Chemphil-LMG, Inc. (Inorganic Division) fonterey Farms Corporation (Piggery) Kolora Ink and Chemical Corporation Borden International Philippines, Inc. BASF Coatings and inks Phils. Inc. rimex Chemical industries Corp. Aetoxida Philippines Corporation Malabon Soap and Oils Ind. Corp. ackaging Products Corporation Rohm and Haas Philippines, Inc. Mead Johnson Philippines, Inc. Maunied Canning Corporation Vippon Paint Philippines, Inc. Jnilox Industrial Corporation Cosmos Bottling Corporation Hi-Tex Industrial Corporation Great Effect Enterprises Inc. "utter O'Brien Paint Co., Inc. Outch Boy Philippines, Inc. Easy Grow Industries, Inc. **Vridev Philipppines**, Inc. **Fwin Aces Industries, Inc.** Rose Food Product Corp. Philippine Ink Corporation Hoechst Philippines, Inc. Roosevelt Chemical, Inc. State Manufacturing Ind. NC Steam Laundry, Inc. Kemwerke, Incorporated INST_ID INSTNAME Polymer Chemicals, Inc. hata General Phils., Inc. MKK Steel Corporation Atlantic Coatings, Inc. EM-POL Corporation Jnion Ajinomoto, Inc. olyphosphates. Inc. C. C. Unson Co., Inc. frust Chemicals, Inc. General Textiles, Inc. **Jnion Refinery Corp. BOIE Incorporated** Solid Mills, Inc. Paren Trading Resins, Inc. 13-80-0033 3-80-0018 3-80-0030 13-79-0013 13-79-0018 13-30-0002 13-80-0003 3-80-0005 3-80-0006 3-80-0008 3-80-0009 3-80-0010 3-80-0012 80-0013 -80-0014 3-80-0015 3-00-0016 3-80-0019 3-80-0020 3-80-0026 3-80-0028 3-80-0029 3-80-0031 3-80-0032 13-79-0014 13-79-0015 13-79-0016 3-79-0017 3-79-0019 13-79-0026 13-79-0028 13-79-0029 3-80-0017 3-80-0023 3-80-0024 3-80-0025 3-80-0027 13-79-0020 13-79-0025 13-80-0004 3-80-0007 13-79-0022 13-79-0023 3-79-0024 13-79-0027 13-90-0001 3-80-001 3-80-002 3-80-002 15-79-002

EMB Hazardous Waste Tracking Database

EMB Hazardous Waste Tracking Database ESTIMATE OF AMOUNT OF NONHAZARDOUS SOLID WASTES GENERATED AT SITE EACH YEAR Solid wastes consisting of papers, cardboards, woods, glasses, plastics, metal drums, general trash and construction deb Product fall-outs, rails and dambars, inked dice, used solder/anode bars and various types of empty plastic containers 50.00 A combination of trash, cafeleria westes and other solid wastes 534.86 General trash such as cartons, woods, metals, paper, plastic and bags/sacks 232.40 Combination of plastic film, non-woven fabric of polyester material, talc, kitchen wastes, office wastes, carton boxes, Carton boxes, papers, scrap metal plastic sheets End raits and dambar deflash residue (copper), pellet tin anode, trimming from the mold operation 0.90 Expired pharmaceutical finished product, expired raw materials and packaging materials Garbage, paper and carton-based wastes, sugar/glucose-based confectionery products 532.00 Modified starches, xantan gum and dextrose for food and pharmaceutical applications Cull runners (excess plastic materials from a newly-encapsulated integrated circuits) Organic and inorganic chemical wastes generated during manufacturing operations 216.00 Filter cake, impurities from raw materials (soda ash, silica sand and filter aid) 50.83 Electric arc furnace (EAF) dust and slag, mill scale, refractory bricks, sludge 440.00 Paper, corrugated cartons, tablets, powders, capsules, granules Glass cullets from lamp manufacturing, cartons, wood and paper Putrescibles, plastics, woods, scrap metals, dumbars, trimmings Tapes, abrasives, cartons, paper, wood, scotch brite and drums Ciprofloxacin debris from tabletting of Ciprobay tablets 0.50 Organic chemicals, pharmaceutical wastes and drugs 0.40 Expired tablets, capsules and ointment Garbage, by-product wastes, salvageable wastes Cartons, paper and styropor used in packaging Moulfing plastic runners, grits, papers, cartons 101.00 Scrap paper, cells, boards and tinplate parts BRIEF DESCRIPTION OF SOLID WASTES 0.50 Old packaging materials and printed matters 104.00 Domestic garbage/pharmaceutical wastes Metai scraps, trimmings and drillings Copper and tin/lead (solder dross) 140.00 Garbage, paper materials, plastic Garbage, industrial solid waste Obsolete peckaging materials SOLID_QTY SOLID_DES Expired products 1,625.00 6,391.00 80.00 330.50 156.00 64.00 50 0.08 31.17 115.06 65.00 15.00 11.00 0 0 0 0.27 278.00 9,519.00 TOWNES PSIC1 819 819 3170 170 170 170 5170 5170 \$170 212 5170 170 170 8211 3511 3712 3550 3860 3825 522 80 620 812 825 839 88 834 NAPOCOR - Maintenance Engineering Center Rowell Lithography and Metal Closure, Inc. **Bayer Philippines, Inc./Healthcare Division** Evereedy Battery Company (Phils.), Inc. ichnson and Johnson (Philippines), Inc. Phoenix Iron and Steel Corp. (PISCOR) Philippine Worldwide Mig. Plastic Corp. Philips Electronics and Lighting, Inc. Boots Pharmaceuticats (Phils.), Inc. Astra Pharmaceuticals (Phils.), Inc. Sterling Products International, Inc. Colgate-Palmotive Philippines, Inc. Rhone-Poulenc Rorer Phils., Inc. Philips Semiconductor Phils., Inc. utomated Microelectronics, Inc. Namer Lambert Philippines, Inc. Joehringer Ingelheim Phils., Inc. Allegro Microsystems Phils., Inc. Abbot Laboratories (Philippines) Schering Philippine Corporation ntegral Chemical Corporation Icon Laboratories (Phil.) Inc. **Vstan Chemical Corporation** Boie-Takeda Chemicals, Inc. D. Searte Philippines, Inc. H.B. Fuller (Philippines), Inc. Pacific Semiconductors, Inc. Philips Consumer Products mkor/Anam Pilipinas, Inc. ARMEDIC Philippines, Inc. Pilipinas YTK Industry, Inc. nterphil Laboratories, Inc. Veticome Philippines. Inc. Actorola Philippines, Inc. Jnited Laboratories, Inc. Resicor Enterprises, Inc. Panelon Philippines, Inc. Etan Pharma Phils., Inc. Aarsman and Co., Inc. Sanofi Philippines, Inc. Philippine Glass Bulbs MI (Philippines), Inc. flog Philippines, Inc. **3ST Philippines, Inc. GX International, Inc** INST_ID INSTNAME RP Chem, Inc. 3M Phils., Inc. Ipjohn Inc. lerck, Inc. fizer Inc. 13-80-0034 13-80-0042 13-80-0056 13-80-0057 13-80-0083 13-80-0035 13-80-0036 13-80-0038 13-80-0039 13-80-0040 13-80-0043 13-80-0044 13-80-0045 13-80-0046 13-80-0047 13-80-0048 13-80-0049 13-80-0050 13-80-0054 13-80-0055 13-80-0059 13-80-0060 3-80-0062 3-80-0063 3-80-0074 13-80-0076 13-80-0082 13-80-0037 13-80-0041 13-80-005 13-80-0052 13-80-0053 13-80-0058 13-80-006 3-80-0073 3-80-0075 3-80-0077 13-80-0031

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3-80-005

3-80-0065 13-80-0066

3-80-0067

3-80-0068

3-80-0065 3-80-0070

3-80-007 3-80-0072

13-80-0078 3-80-0079

13-80-0080

ESTIMATE OF AMOUNT OF NONHAZARDOUS SOLID WASTES GENERATED AT SITE EACH YEAR

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PSIC1 SOLID_OTY SOLID_DES TOWNES BRIEF DESCRIPTION OF SOLID WASTES	240.00 Garbages such as disposable scrap wood, paper, plastic (PE/PP/PVC), steel, filling materials, construction discards, etc	2.60 Paper and plastic bass used to contain powder/fiakes raw materials	12.00 Paper, carton boxes	- Siudges on plating tank bottoms		168.00 Ordinary garbage	Expired drug prod.,rejected tablets,capsules etc.
SOLID_QT	240.0	. 26	12.0	•		168.0	
PSIC	3825 3511	3846 3513	3832			3513	3522 3210
	13-80-0084 Epic Electronics Industries Corporation 13-80-0085 Chemphil Albright & Wilson Corp.	13-30-0036 Honda Philippines, Inc. 13-30-0087 Alcolac Incomonated	Astron Philippines Inc.		13-80-0091 CD Electroplating and Fabrication, Inc. 13-80-0092 American Packing Indsutries (Phils.) Corp.	Borden International Phils., Inc.	BOIE incorporated Gelmant industries Phils., inc.
UI_TSNI	13-30-0084 13-30-0085	13-80-0086 13-80-0086	13-80-0068	13-80-0089 13-80-0090	13-80-0091 13-80-0092	13-80-0093	13-80-0094 13-80-0095

Table 8.5 Estimate of Amount of Non-hazardous Liquid Wastes Generated at Site Each Year

																																				·		-						w demarking solution
					nd equipment																																		-				/grease/kerosene mixture	nouse and the factory ceas and used chemicals fr
LIQID_DES BRIEF DESCRIPTION OF LIQUD WASTES	165.00 Caustic washing		Contaminated water/effluents with pesticide trace	Conitant transformation transformations	Waste oil from power plant and washings from floor and equipment		:		5.00 Oil-water mixtures				1 052.00 Suffuric acid and alkatine decreaser		-	42.00 Wastewater from APCF, pickling, cooling system			4,320.00 Wastewater (Production)										Mixture of sulfuric and hydrochlonic acid						Used oil	BMC Production wastewater, scum, activated sludge	Production wastewater				Soap tyes from soapmaking department		Water-based paint washings, epoxy resin residue, oil/grease/kerosene mixture	Overflow from septic tanks and effluents from power house and the factory Consists mostly of wastewater from electroplating process and used chemicals from demarking solution
LIQID_QTY CUBIC METERS	1655.00		35.00						2.00				1 052.00			42.00			4,320.00	240.00	•		•															N.U.			35.50		3.40	94,783,00 9.218,97
PSIC	3131	9412	3511	3522	3023	3560	3620			3540			115	351	3133	3812	3712	3712						- 0L/2	3124	5124	9/2/0	0058	3720						3111	3113	3129	3513	100	2524	3523	3523	3529	3551 3825
	La Tondeña Distillers, înc.	Coca-Cola Bottlers Pranippines, inc. SMDD - Farala Caston Plant	The Shell Chemical Co. (Philippines) Inc.	YSS Laboratories Company, Inc.	Proder and Gamble Philippines, Inc. Philippine Bodision Company, Inc. (Hollever)	Policiphite Retaining Company, nuc (Comerce) SMC - Plastic Case Plant	SMC - Mold Manufacturing Plant	SMC-SMPP-Farola Packaging Products (Mla. Glass)	PNOC Shipping and Transport Corporation	EXXON Chemical Philippines	Constant Plating Center	Well Ever Electroplating Shop	Malabon Soap and Oil Industrial Co., inc.	P.I. Manurecturing, inc. Consolidated Industrial Gasas Inc. (Navolas)	San Minual Concertion - Polo Brewer	Padoson Stainless Steel Corporation	Mayer Steet Pipe Corporation	Continental Steel Manufacturing Corporation	Cleveland Textile Mills, Inc.	Essential Manufacturing	Moldex Products, Inc.	Polyglass International Manufacturing Corp.	FEJEA Enterprises	inter-World Steel Mills, Inc.	Grand Cathay Food Mfg., Corporation	Mixwel Food Products, Inc.	Metai Plus industries	Fasterine inclusional Flacing Corp.	Grace Park industries, into	Luxury metal manuaccurug corp. Diveon Stufface Coating Corp.	New, M.E. Moses Enterprises	Geltech Electroplating	Polymedic General Hospital	Signal Electric Ind. Inc.	Purefoods Corporation	Philippine Dairy Products Corporation	SYSU International, Inc.		Consolidated Industrial Gases, IncBailmawa	Pacific Paint and Oil Manufacturing, Inc.	Carolinar Industrial, inc. Mamifacturion: Services and Trade Corporation	Pilipinas Kao, Inc. (Household Division)	Republic Chemical Industries, Inc.	Sime Darby Ptitipinas, Inc. Lettern Manufarturing Industries
CI_TSNI		13-77-0002				13-77-000								13-78-0002						-	13-78-0010								8100-8/-61						Ċ		÷.				13-/ 3-000 1	•		13-79-0011

EMB Hazardous Waste Tracking Database ESTIMATE OF AMOUNT OF NONHAZARDOUS LIQUID WASTES GENERATED AT SITE EACH YEAR 3,120,000.00 Water used for cleaning glasswares, drums, various containers, building windows and for bathing of plant workers which g 5,677,50 Brine water - hard water discard from EDR water treatment plant containing mineral selts and impurities from raw water (,100.00 Liquid wastes generated during production operation such as washing, cleaning, domestic and pooling 732.00 Effluent 8.000.00 Domestic sewage, general cooling system, nitro house garden sprinkler and stochyard gardening 75.00 Water of reaction removed during process, by-product of esterification process Chemical reagent wastes, expired drug products (syrups and suspensions) Washwater, wastewater from canteen, comfort rooms and laboratories 1,500.00 Washing of beverage concentrates, sanitation water, sewage water 50.00 Wastewater from cleaning of containers, floorings and workers Wash solvent is put back in the mixer and mixed with paint Treated wasteweller from ceustic soda plant Dissolved tead saits from chemical analysis of the product River water used as cooling water 502,480.00 Wash water used in animal bathing and pen cleaning 195.00 Water of reaction for manufacture of alkyd resins 898.00 Domestic water used for washing and cleaning 50.00 Wash water BRIEF DESCRPTION OF LIQUED WASTES Wash water used mainly for pen cleaning Effluent from septic tank, floor washings Cooking oil used to clean equipment 373.000.00 3.285.00 Whitewater from process area 2.310.00 Treated wastewater from causti Sludges after dewatering Oils mixed with water 19.20 Dirty or wash thinner LIQID DES 2.40 Oil/water mixture Domestic waste 29,094.10 Domestic waste Wash water 420.00 Used oil 282 0:10 5,110.00 45,000.00 192, 136.00 426,000.00 900,000,000 PSICI LIQID_QTV CUBIC METERS 3834 3836 6170 3211 3521 3521 2221 3710 3134 3135 3128 3128 3529 9730 3134 3222 3412 3511 3511 3511 3511 3511 3511 3511 3515 3515 3513 3513 3513 3514 3112 1211 1213 3514 3511 3511 Superior Gas and Equipment Co., Inc. (SUGECO) thone-Poulenc Agrochemicals Philippines, Inc. Consolidated Industrial Gases, Inc. (Mandaluy Charter Chemicals and Coating Corporation Wead Johnson Philippines, Inc. Monterey Farms Corporation (Cattle Farm) psi-Cola Far East Trade Dev't. Co., Inc. hemphil-LMG, Inc. (Inorganic Division) tonterey Farms Corporation (Piggery) Kolora Ink and Chemical Corporation torden International Philippines, Inc. rimex Chemical industries Corp. BASF Coatings and Inks Phils. Inc. Asiabon Soap and Oils Ind. Corp. fetoxide Philippines Corporation Rohm and Haas Philippines, Inc. ackaging Products Corporation **Asumiad Canning Corporation** Vippon Paint Philippines, Inc. Hi-Tex Industrial Corporation Initox Industrial Corporation Cosmos Bottling Corporation "uller O'Brien Paint Co., Inc. I Effect Enterprises Inc. Outch Boy Philippines, Inc. Easy Grow Industries, Inc. Philippine Ink Corporation Wrigley Philipppines, Inc. Data General Phils. Inc. fwin Aces Industries, Inc. Rose Food Product Corp. State Manufacturing Ind. loechst Philippines, Inc. Rooseveit Chemical, Inc. NC Steam Laundry, Inc. cemwerke, incorporated ^oalymer Chemicals, Inc. #KK Steet Corporation Atlantic Coatings, Inc. General Textiles, Inc. C. C. Unson Co. Inc. rust Chemicals, Inc. Inion Relinery Corp. Inion Ajinomoto, Inc. olyphosphates, inc. EM-POL Corporation BOIE Incorporated INST_ID_INSTNAME olid Mills. Inc. aren Treding tesins, Inc. 1931 13-79-0013 13-79-0014 13-79-0015 13-79-0016 13-79-0017 13-79-0018 3-79-0019 80-0015 80-0016 80-0018 -80-0019 3-80-0030 13-80-0032 13-80-0033 3-79-0025 13-79-0026 3-79-0028 3-80-0002 3-80-0003 80-000 30-005 80-000 80-0010 B0-0014 80-0013 3-80-0020 3-80-0023 3-80-0026 3-80-0028 3-80-0026 13-80-0031 3 79-002 3-80-000 80-000 3-80-0022 3-80-0025 3-80-0023 3 79 000 3-79-002 -90-000-3-80-002 2.70.000 80-000 3-80-002 Ì

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New York

ESTIMATE OF AMOUNT OF NONHAZARDOUS LIQUID WASTES GENERATED AT SITE EACH YEAR

		-				country operators				000655																															-	-			d inhibitors
	0.50 Opthalmic solution and syrups/drops			20.000.00 Domestic wastewater	8		3		2,640.00 Domestic waste, washings		23,750.00 Wastewater from UC Japoratory, contribut routes, cereter a multimeter and	105,000.00 Treated wastewater				•			Domestic westewrater	372 310 00 Treated inclustrial watewater		 Silver apoxy: excess epoxy incurred at Die Bonding operation 			5,339,37 Rinse water, acid and base solutions						0.53 Expired products		100.00 Glucose synup for food, personal care and pharmadeutical applications				1.00 Organic chemicals, pharmaceutical wastes and drugs	0.20 Expired synups and suspensions		0.04 Expired pharmaceutical finished products, expired raw materials and packaging materials	and the second	2,920,00 Condensates from bolier, near excitanger a pro po Witteraurity from Assimption receiver receiver receiver and sand filter		0.18 Acid solution containing 1.913% HNO3 and 23% HCl.	
PSIC1 L	3522	3522	3522	7735	3522	3522	3522	3522	3522	3522	3522	3523	3523	3529	3529	3540	3620	3812	2000	2000	2625	3825	3825	3825	3825	3825	3832	3834	8700	6170 6170	6170	6170	6170	6170	0110	01/0	6170	6170	6170	6170	3211	3511	3712	3560 3860	
INSTNAME	Boie-Takeda Chemicals, Inc.	Boots Pharmaceuticals (Phils.), Inc.	Merck Inc.	Bayer Philippines, Inc./Healthcare Division	Astra Pharmaceutacais (Prins.), inst.	Stening records enternanceur, new Attest 1 aboratories (Philippines)	succession and the succession of the succession	Wasser I ambert Philippines Inc.	reaction contract mapping and the income of the second sec	GX International. Inc	Pfizar Inc.	Coloste-Palmolive Philippines, Inc.	tohoson and Johnson (Philippines), Inc.	H.B. Fuller (Philippines), Inc.	Resicor Enterprises, Inc.	Asian Chemical Corporation	Philippine Glass Bulbs	Phoenix Iron and Steel Corp. (PISCOR)	Pilipinas YTK Industry, Inc.	Rowoll Lithography and Metal Closure, Inc.	Philips Semiconductor Phils., Inc.	Pacific Semiconductors, Inc.	Titas Dilitasiase Inc.	AMI (Philinnines) Inc.	Amkor/Anam Pilipinas, Inc.	Automated Microelectronics, Inc.	Philips Consumer Products	Eveready Battery Company (Phils.), Inc.	Philips Electronics and Lighting, Inc.	3M Phils, Inc.	Elan Friatma Fluis, sic. Multicome Divisione fro	Weilchtte Failpeires, no.	RP Chem, Inc.	Alcon Leboratories (Phil.) Inc.	ARMEDIC Philippines, Inc.	Schering Philippine Corporation	Marsman and Co., Inc.	Upjohn Inc. Phane Bardene Berer Bhile Inc.	Ranofi Philippipas Inc.	Boehringer Ingelheim Phils. Inc.	Panelon Philippines, Inc.	Integral Chemical Corporation	GST Philippines, Inc.	Philippine Worldwide Mig. Plastic Corp.	NAPOCOR - Maintenance Engineering Center
UL_INST_ID	13-80-0034	13-80-0035	13-80-0036	13-80-0037	13-80-0038	13-90-0039	12-80-0040			13-80-0044	13-B0-0045	13-80-0046	3-80-0047	3-80-0048	3-80-0049	3-80-0050	3-80-0051	3-80-0052	3-80-0053	3-80-0054	3-80-0055	3-80-0056	10-00-00-01		13-00-0000	3-80-0061	3-80-0062	13-80-0063	13-80-0064	3-80-0065	3-80-006	3-90-000/	3-80-0069	3-80-0070	3-80-0071	3-80-0072	13-80-0073	13-80-0074	13-80-0015	13-80-0010	13-80-0078	6/00-08-51	13-80-0080	13-80-0081	13-80-0082

ESTIMATE OF AMOUNT OF NONHAZARDOUS LIQUID WASTES GENERATED AT SITE EACH YEAR

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PSIC1 LIQID QTY LIQID DES CUBIC METERS BRIEF DESCRIPTION OF LIQUID WASTES	48.000.00 process waste, cooling water, fire water, EDR concentrate, ion excitange regenerants, rain water, sewage, etc 720.00 Overflow water from rinsing tanks		906.00 Pre-treatment, plating and post-treatment rinse water	3.120,000.00 Water used for cleaning glasswares,drums, various containers, building windows etc. Chemical reagent waste, expired drug prod (syrups and suspensions)
PSIC1 LIQID cuerca	3825 3511 3846	3513 3832	-	3513 3522 3210
	13-60-0084 Epic Electronics Industries Corporation 13-80-0085 Chemphil Albright & Wilson Corp. 13-80-0086 Honda Philippines, Inc.	13-80-0087 Alpoiac, incorporated 13-80-0088 Astron Philippines Inc.	13-80-0089 Manila Electric Company 13-80-0090 L.G.Fernandez Plating Services	13-80-0091 CD Electroplating and Fabrication, Inc. 13-80-0032 American Packing Indsutries (Phils.) Corp. 13-80-0033 Borden international Phils., Inc. 13-80-0035 Borden international Phils., Inc.
DI_TSNI	13-80-0084 13-80-0085 13-80-0085	13-80-0087 13-80-0088	13-80-0089	13-80-0091 13-80-0092 13-80-0093 13-80-0093 13-80-0094 13-80-0094

3.00 Petroleum-based chemical combination in liquid form (aliphatic, aromatic and oxygenated hydrocarbons) 12.00 Ink washings 70.00 Redundant/off-specs pesticides (accumulation), solvents flushings, sludge, containers extoxic product 1.28 Empty steel drums, solidified and polymerized wastes
 24.00 Dirty oil
 0.25 Sludge from electroplating process and used chemicals from demarking and stripping process 4.00 Solvent washings of mixing tanks with traces of toxic and flammable chemical raw materials 0.01 Pharmaceutical wastes and drugs 500.00 Acid from electrostatic precipitator, off-quality acid from suffortation plant Pathological wastes (human organs, tissues and/or materials 18.00 Metal Studges STORE DES BRIEF DESCRIPTION OF STORED WASTE Solid precipitate from nickel plating solution Estimate of Amount of Hazardous Waste Stored on Site 45.00 Carbide sludge from acetylene plant Discarded gold amd brass solutions 2.76 Used oil (Tellus oil 68) 0.09 Nickel and suffates 16.80 Oil waste STORE QTY STORE 800.008 PSICI 3117 3511 3511 3713 3712 3712 3710 3124 3124 3720 3320 3720 3131 SMC-SMPP-Farola Packaging Products (MIa. Glass) Manufacturing Services and Trade Corporation Consolidated Industrial Gases, Inc. (Navotas) Consolidated Industrial Gases, Inc.-Balintawa Continental Steel Manufacturing Corporation Philippine Refining Company, Inc. (Unilever) olyglass International Manufacturing Corp. PNOC Shipping and Transport Corporation Nell Ever Electroplating Shop Malabon Soap and Oil Industriat Co., Inc. The Shell Chemical Co. (Philippines) Inc. acific Paint and Oil Manufacturing, Inc. Pilipinas Kao, Inc. (Household Division) pine Dairy Products Corporation San Miguel Corporation - Polo Brewer Srand Cathay Food Mfg., Corporation adoson Stainless Steel Corporation Procter and Gamble Philippines, Inc. Each Year Coca-Cola Bottlers Philippines, Inc. wury Metal Manufacturing Corp. Republic Chemical Industries, Inc. Labtech Manufacturing Industries SMC - Mold Manufacturing Plant (SS Laboratories Company, Inc. astbrite Industrial Plating Corp. EXXON Chemical Philippines Mayer Steel Pipe Corporation lew, M.E. Moses Enterprises Dyson Surface Coating Corp. SMPP - Farcia Carton Plant Cleveland Textile Mills, Inc. olymedic General Hospital La Tondeña Distiliers, Inc. nter-World Steet Mills, Inc. dixwel Food Products, Inc. Grace Park Industries, Inc. Sime Darby Pilipinas, Inc. SMC - Plastic Case Plant Qualitech Chemical Corp. ssential Manufacturing Constant Plating Center International, Inc. Cardinal Industrial, Inc. Manufacturing, Inc. signal Electric Ind. Inc. Aoldex Products, Inc. Gettech Electroplating Purefoods Corporation fetal Plus industries FEJEA Enterprises INSTNAME SYSU I Table 8.6 ŝ UNST_ID 13-77-0002 13-77-0003 13-77-0005 3-77-0006 13-78-0018 13-78-0019 13-79-0012 13-77-0001 13-77-0004 13-77-0007 13-77-0008 3000-77-61 13-77-0010 13-77-0012 13-77-0013 13-78-0002 13-78-0003 13-78-0005 13-78-0006 13-78-0010 13-78-0013 13-78-0015 13-78-0016 3-78-0020 13-79-0002 3-79-0005 13-79-0006 13-79-0008 13-79-0009 13-79-0010 13-77-0014 13-78-000 13-78-000 13-78-0007 13-78-0008 13-78-0005 13-78-0013 13-78-0014 3-78-0021 3-78-0023 3-78-0025 3-78-0024 13-79-0001 13-79-0003 13-79-0004 13-79-0007 13-79-0011 10-77-01 13-78-001 13-78-001

EMB Hazardous Waste Tracking Database

EMB Hazardous Waste Tracking Database 12.36 Chemically-fixed waste as mud blocks from treated studge from production of caustic soda using Hg process and spent acid 0.60 Arsenic suffide studge contains As203 precipitate, pecalite filter aid, residuat phosphorio acid and moisture, neutraliz 10.00 Carbide residue plus water 3.00 Acid wastes (suffuric)
 5.60 Color greeen solution containing iron
 5.62 Color greeen solution containing iron
 5.52 Caustic soda liquidifiakes used for bottle washing/chilorinated solvents used for water treatment ESTIMATE OF AMOUNT OF HAZARDOUS WASTE STORED ON SITE EACH YEAR 13.00 Toxic, flammable, M504, J201, F702, C301, 8207, D401, C399, B204, C302, F701, B208 200,00 Calcium sulfite/sulfate combination from the double alkali process of SO2 removal Wastewater contaminated with paints, vamishes, resins, organic solvents and oil Plastic and paper bags, sawdust with spillage and wastewater, crushed drums 66.00 Wastewater sludge with yellowish brown color, odorfess and in lump form 1,500.00 Textiles wastewater 0.70 Sludge from washing machineries and tubes E 602 D 0.50 Sludge from washing machines and tubs (solvent besed) E610 D 35,732.00 Marure (feces & urine), by-product of animal parturition 86,836.00 Marure (feces & urine), animal mortafities and by-product 74,40 Small and used purnice stones, fine sand, cotton lint 12.72 Ink washings and spent photopolymer platemaking solvent 65.26 Small and used pumice stones, fine sands, cotton lint 141.90 Sludge from sandfillers and contaminated process waste Dry solids coming from the wastewater treatment plant Expired drug products and chemical reagent wastes 0.05 Empty 50-kg capacity drum containers 1.80 Solvent washings of kettles containing 7-10% resin BRIEF DESCRIPTION OF STORED WASTE 3.00 Lead dross, lead saits/soap powder PSIC1 STORE_OTY STORE_DES 1.00 Paste and lump forms 1.00 Used acid 183.00 5.00 TONNES Sec. 1 3134 3115 3124 3124 3117 3511 · 3834 3836 6170 3211 3521 3521 1213 9730 3511 3511. 3513 3513 3124 3521 3521 3521 3521 3521 3521 3521 3521 3134 3412 9730 3511 3515 3513 3514 2221 3514 3511 3511 3511 3511 3511 3511 1211 Superior Gas and Equipment Co., Inc. (SUGECO) Rhone-Poulenc Agrochemicals Philippines, Inc. Consolidated Industrial Gases, Inc. (Mandaluy Monterey Farms Corporation (Cattle Farm) Charter Chemicals and Coating Corporation Pepsi-Cola Far East Trade Dev't. Co., Inc. Chemphil-LMG, Inc. (Inorganic Division) Aonterey Farms Corporation (Piggery) Kolora Ink and Chemical Corporation Borden International Philippines, Inc. BASF Coatings and Inks Phils. Inc. Metoxide Philippines Corporation himex Chemical Industries Corp. Malabon Soap and Oils Ind. Corp. backaging Products Corporation Rohm and Haas Philippines, Inc. Aeed Johnson Philippines, Inc. Asurdad Canning Corporation Nippon Paint Philippines, Inc. Hi-Tex Industrial Corporation Cosmos Bottling Corporation Unitox Industrial Corporation Great Effect Enterprises Inc. Fuller O'Brien Paint Co., Inc. Dutch Boy Philippines, Inc. Easy Grow Industries; Inc. hilippine Ink Corporation Wrigtey Philipppines, Inc. Roosevelt Chemical, Inc. Hoechst Philippines, Inc. **Fwin Aces Industries, Inc.** Rose Food Product Corp. NC Steam Laundry, Inc. Kemwerke, Incorporated Data General Phils, Inc. State Manufacturing Ind. Polymer Chemicals, Inc. WKK Steel Corporation Atlantic Coatings, Inc. Jnion Ajinomoto, Inc. EM-POL Corporation C. C. Unson Co., Inc. must Chemicals, Inc. General Textiles, Inc. Union Refinery Corp. Polyphosphates, Inc. BOIE Incorporated INST ID INSTNAME Paren Trading Solid Mills, Inc. Resins, Inc. 13-80-0032 13-80-0033 13-80-0013 13-80-0015 3-80-0016 3-80-0018 13-80-0019 13-80-0020 13-80-0022 13-80-0025 13-80-0026 13-80-0028 13-80-0029 13-80-0030 13-79-0013 3-79-0015 3-79-0016 3-79-0018 3-79-0028 3-79-0029 3-80-0005 3-80-0006 3-80-008 3-90-0009 3-80-0010 13-80-0012 13-80-0023 13-80-0024 13-80-0027 3-79-0014 3-79-0019 13-79-0025 3-79-0026 3-80-0002 3-80-003 13-80-0007 3-80-0014 13-80-0021 13-80-0031 3-79-0017 3-79-0022 3-79-0023 3-79-0024 3-80-0001 3-80-000 3-80-0017 3-79-0020 3-79-002 13-80-001 3-79-002 8 - 33

ESTIMATE OF AMOUNT OF HAZARDOUS WASTE STORED ON SITE EACH YEAR

Pharma products, lab reagents, pigments, raw materials and other chem, prepins wid are rendered unfit for commercial di The oil is used as lubricant and the mercury is collected from the glass traps in the manufacture of fluorescent lamps Solder flux is an organic substance used during soldering of printed circuit boards while the oil is used as lubricant. Rejected tablets, capsules, powders, granules, mixed chemicals, foit, plastics, trash, paper, solvents, acid, alkati 3,645.93 Non-volatile oxides produced during steelmaking (slag), particulate matter produced during smelting (dust) Mixed acids and alkalis, organic acids, organic solvents, pharmaceutical wastes and drugs Food grade phosphates, feed grade vitamins, surfactants, basic chemicals and silicones Expired pharmaceutical finished product, expired raw materials and packaging materials Wet scrap contains adhesive paints and dissolved resins and waste solvents Expired tablets, melted tozenges, discolored ointments, liquids and cream Capsules, tablets and liquid preparations in their original containers Dissolved metals (iron-based and copper-based) in acid solution 0.72 Oil used as lubricant and bunker oil collected in storage oil traps Waste solvent mixtures, waste oils, lubricants and thinner mix Composed of all reagents, organic solvents and acid waste 4.77 Materials used as catalyst in SO2 to SO3 converter BRIEF DESCRIPTION OF STORED WASTE this sludge from the pad print operation Sludge from watewater treatment plant Expired pharmaceutical products 1.80 Rejected products/expired goods Expired pharmaceutical products Expired drugs and raw materials Expired and expiring products Wastewater treatment sludge Liquid and solid wastes Expired drug products 7.02 Waste solvent mixture 41.75 Heavy metal sludges Heavy metal słudges STORE DES Expired products Oil/water mixture Expired stocks Metallic sludge 010 0.75 8 30.72 (4.00 1.20 952.00 I 5.00 I 8 9 8 4 8 4 . 17'0 1.32 0.50 525.00 500.00 0.80 0.50 75.75 0.20 2.86 STORE_OTY TOWNES PSICI 3522 622 6523 6523 6523 529 990 620 3812 3819 3819 5170 5170 170 3170 5170 2170 \$170 6170 8211 8511 3712 3560 3860 3825 3522 522 9522 522 522 522 523 NAPOCOR - Maintenance Engineering Center Lithography and Metal Closure, Inc. Bayer Philippines, Inc./Healthcare Division Eveready Battery Company (Phils.), Inc. Johnson and Johnson (Philippines), Inc. Phoenix Iron and Steel Corp. (PISCOR) Philippine Worldwide Mfg. Plastic Corp. Philips Electronics and Lighting, Inc. Boots Pharmaceuticals (Phils.), Inc. Astra Pharmaceuticals (Phils.), Inc. Sterling Products International, Inc. Colgate-Palmotive Philippines, Inc. Philips Semiconductor Phils., Inc. Vamer Lambert Philippines, Inc. Automated Microelectronics, Inc. Rhone-Poulenc Rorer Phils., Inc. toehringer Ingelheim Phils., Inc. Schering Philippine Corporation Allegro Microsystems Phils., Inc. Laboratories (Philippines) ntegral Chemical Corporation Alcon Laboratories (Phil.) inc. Boie-Takeda Chemicals, Inc. H.B. Fuller (Philippines), Inc. Asian Chemical Corporation G. D. Searle Philippines, Inc. acific Semiconductors, Inc. Philips Consumer Products Amkor/Anam Pilipines, Inc. ARMEDIC Philippines, Inc. pilipinas YTK Industry, Inc. nterphil Laboratories, Inc. Vellcome Philippines, Inc. Aatorola Philippines, Inc. Paneton Philippines, Inc. United Laboratories, Inc. Resicor Enterprises, Inc. Elan Pharma Phils., Inc. Philippine Gass Bulbs Marsman and Co. Inc. anofi Philippines, Inc. AMI (Philippines), Inc. Zikog Philippines, Inc. GST Philippines, Inc. GX International, Inc INSTNAME RP Chem. Inc. **BM Phils.** Inc. Jpjohn Inc. Merck, Inc. Mizer, inc. Sevel Abbot UST_ID 13-80-0052 13-80-0053 13-80-0055 13-80-0078 3-80-0038 3-80-0043 13-80-0045 [3-80-0048 13-80-0050 13-80-0051 13-80-0054 13-80-0056 13-80-0057 13-80-0058 13-80-0059 13-80-0060 13-80-0063 13-80-0064 13-80-0065 13-80-0066 13-80-0067 13-80-068 13-80-0069 13-80-0070 13-80-0072 13-80-0074 13-80-0075 13-80-0076 13-80-0077 13-80-0079 13-80-0080 3-80-0082 3-60-0083 13-80-0034 13-80-0035 13-80-0036 3-80-0039 3-80-0040 3-80-0041 3-80-0042 3-80-0044 3-80-0046 3-80-0047 13-80-0049 13-80-0061 13-80-0062 13-80-0071 13-80-0073 13-80-0081 13-80-0037 8 - 34

	m tank clean-up based)			EMB Hazardous Waste Tracking Database
ASTE STORED ON SITE EACH YEAR	 TV STORE DES BRUEF DESCRIPTION OF STORED WASTE 2.00 Phosphorus studge - contains residual yellow phosphorus, contamicated in dirt and other impurities from tark clean-up Mater in poparation sludge contisting of silicates, phosphorus, zinc, iron and carbonates 2.50 Water finang cont 7-10% latex emulsion resin (water based). Solvent rinsing cont 7-10% resin (scivent based) 0.48 Liquid flux Toxic insulating oils-polychlorizated biphenyls 	, rejected capsules, dust powders etc.		EME
NASTE STORED ON	PSIC1 STORE OTV STORE DES 700MES BRUEF DESCRIPTION OF STORED WASTE 3825 2.00 Phosphorus studge - contains residual yellow phosphorus, contaminated in dirt and oth 3611 3846 Metal proparation studge contains residual yellow phosphorus, contaminated in dirt and oth 3616 3846 2.00 Phosphorus studge - contains residual yellow phosphorus, contaminated in dirt and oth 3616 3846 0.00 Water insing cont 7-10% latex enulation resin (water based). Solvent rinsing cont 7-10 3832 0.48 Liquid flux - Toxic insulating oils-polychlorinated biphenyls	0.20 Solid and liquid wastes, polymerized wastes Chemical reegent wastes, expired drug products, rejected capsulas dust powders etc.		
SUOUS V	STORE_QTY <i>TOWNES</i> 2.00 2.50 0.48	0.20		
OF HAZAF	PSIC1 3611 3646 3646 36513 38513 38532	3513 3522 3210		
ESTIMATE OF AMOUNT OF HAZARDOUS W/	INSTNAME Epic Electronics Industries Corporation Chemphil Albright & Wilson Corp. Honda Philippines, Inc. Alpolac, Incorporated Aptrom Philippines Inc. Manile Electric Company L.G.Fernandez Plating Services CD Electroplating and Fabrication, Inc.	American reacting manufes (rms.) coup. BOIE Incorporated Gelmart Industries Phils., Inc.		
ESTIM		13-20-0053 B 13-20-0053 B 13-20-0053 B 13-20-0053 B 13-20-0053 B 13-20-0055 B 13-20-0000000000000000000000000000000000	0.26	* <u>.</u>

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Estimate of Amount of Hazardous Waste Removed from the Site Each Year Table 8.7

SHIP_OTV	TONNES	37,440.00			38.00	0.01		0000	2 76	2 i	16 RU	12.50		130.00		1		0.03		18.00	A 50	C) F	4	t .							
PSIC1		3131	3134	3412	3511	3500	3572	00700	3323 2560	0000	02020 2620	0700	2017	3040	-		311/	3833	1105	3133 2240	3812	3/12	3/12				-	0440	01 10 04060	2124	1210
		r star of the star	La juitueria Lisurets, mo.		SMPP - Farola Carton Frant.	The Shell Chemical Co. (Philippines) Hic.	YSS Laboratories Company, Inc.	Procter and Gamble Philippines, Inc.	Philippine Refining Company, Inc. (Unilever)	SMC - Plastic Case Plant	SMC - Mold Manufacturing Plant	SMC-SMPP-Farola Packaging Products (Mia. Glass)	PNOC Shipping and Transport Corporation	EXXON Chemical Philippines	Constant Plating Center	Well Ever Electroplating Shop	Malabon Soap and Oil Industrial Co., Inc.	P.I. Manufacturing, Inc.	Consolidated Industrial Gases, Inc. (Navotas)	San Miguel Corporation - Polo Brewer	Padoson Stainless Steel Corporation	Mayer Steel Pipe Corporation	Continental Steel Manufacturing Corporation	Cleveland Textile Mills, Inc.	Essential Manufacturing	Moldex Products, Inc.	Polyglass International Manufacturing Corp.	FEJEA Enterprises	Inter-World Steel Mills, Inc.	Grand Cathay Food Mfg., Corporation	Mixwel Food Products, Inc.
INCT ID			13-77-0001	13-77-0002	13-77-0003	13-77-0004	13-77-0005	13-77-0006	1377-0007	13-77-0008	13-77-0009	13-77-0010	13-77-0011	13-77-0012	13-77-0013	13-77-0014	13-78-0001	13-78-0002	13-78-0003	13-78-0004	13-78-0005	13-78-0006	13-78-0007	13-78-0008	13-78-0009	13-78-0010	13-78-0011	13-78-0012	13-78-0013	13-78-0014	13-78-0015

EMB Hazardous Waste Tracking Database

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SHIP_QTY FORWES	1.00		1.	•			3.50	18.00		11,856.00		60.00	1,115.00		4.00		•	1.29		9,253.03	66.00			1,500.00	2.00	1.10	1.00	
Psici	3720	3320 ·	3720			•			3111	3113	3129	3511	3511	3521	3521	3523	3523	3529	3551	3825	3834	3836	6170	3211	3521	3529		
INSTNAME	Metal Plus Industries Easthrite Industrial Plating Corb.	Grace Park Industries, Inc.	Luxury Metal Manufacturing Corp.	Dyson Surface Coating Corp.	New. M.E. Moses Enterprises	Geltech Electroplating	Polymedic General Hospital	Signal Electric Ind. Inc.	Purefoods Corporation	Philippine Dairy Products Corporation	SYSU International, Inc.	Qualitech Chemical Corp.	Consolidated Industrial Gases, IncBalintawa	Pacific Paint and Oil Manufacturing, Inc.	Cardinal Industrial, Inc.	Manufacturing Services and Trade Corporation	Pilipinas Kao, Inc. (Household Division)	Republic Chemical Industries, Inc.	Sime Darby Pilipinas, Inc.	Labtech Manufacturing Industries	C. C. Unson Co., Inc.	Data General Phils., Inc.	Trust Chemicals, Inc.	General Textiles, Inc.	Twin Aces Industries, Inc.	Kolora Ink and Chemical Corporation	Paren Trading	Hi-Tex Industrial Corporation
d LTSNI	13-78-0016 13-78-0016	13-78-0018	13-78-0019	13-78-0020	13-78-0021	13-78-0022	13-78-0023	13-78-0024	13-79-0001	13-79-0002	13-79-0003	13-79-0004	13-79-0005	13-79-0006	13-79-0007	13-79-0008	13-79-0009	13-79-0010	13-79-0011	13-79-0012	13-79-0013	13-79-0014	13-79-0015	13-79-0016	13-79-0017	13-79-0018	13-79-0019	13-79-0020

EMB Hazardous Waste Tracking Database

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SHIP_QTY	TONNES		4.80	44.34	400.00						13.20	1.80		1								1,650.00	0.10	260.00		•		160.00		0.20
PSIC1		2221	3710	3134	3115	3124	3529	3117	-		3514	3112	1211	1213	9730	3134	3222	3412	3511	9730	3511	3511	3511	3511	3511	3511	3511	3511	3511	3515
 INSTNAME		Union Refinery Corp.	MKK Steel Corporation	Cosmos Bottling Corporation	Maunlad Canning Corporation	Rose Food Product Corp.	Philippine Ink Corporation	Malabon Soap and Oils Ind. Corp.	State Manufacturing Ind.	JVC Steam Laundry, Inc.	Rhone-Poulenc Agrochemicals Philippines, Inc.	Mead Johnson Philippines, Inc.	Monterey Farms Corporation (Cattle Farm)	Monterey Farms Corporation (Piggery)	Great Effect Enterprises Inc.	Pepsi-Cola Far East Trade Dev't. Co., Inc.	Solid Mills, Inc.	Packaging Products Corporation	Metoxide Philippines Corporation	Easy Grow Industries, Inc.	Rohm and Haas Philippines, Inc.	Union Ajinomoto, Inc.	Unitox Industrial Corporation	Resins, Inc.	Chemphil-LMG, Inc. (Inorganic Division)	Trimex Chemical Industries Corp.	Polyphosphates, Inc.	Superior Gas and Equipment Co., Inc. (SUGECO)	Consolidated Industrial Gases, Inc. (Mandaluy	Borden International Philippines, Inc.
INST_ID		13-79-0021	13-79-0022	13-79-0023	13-79-0024	13-79-0025	13-79-0026	13-79-0027	13-79-0028	13-79-0029	13-80-0001	13-80-0002	13-80-0003	13-80-0004	13-80-0005	13-80-0006	13-80-0007	13-80-0008	13-80-0009	13-80-0010	13-80-0011	13-80-0012	13-80-0013	13-80-0014	13-80-0015	13-80-0016	13-80-0017	13-80-0018	13-80-0019	13-80-0020

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SHIP_QTY	TONNES	14.00	48.80	13.30	18.00	0.12	4,410.00		24.00	73.00		100.00			0.50	1.20		1.00		3.84	7.89	443.00	0.50	•		1.00	364.27		0.40	
PSIC1		3513	3513	3513	3514	3124	3521	3521	3521	3521	3521	3521	3521	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3523	3523	3529	3529
UNSTRAME CONTRACTOR		Polymer Chemicals, Inc.	EM-POL Corporation	Kemwerke, Incorporated	Hoechst Philippines, Inc.	Wrigtev Philipppines, Inc.	Fuller O'Brien Paint Co., Inc.	Nippon Paint Philippines, Inc.	Dutch Boy Philippines, Inc.	BASF Coatings and Inks Phils. Inc.	Atlantic Coatings, Inc.	Charter Chemicals and Coating Corporation	Roosevelt Chemical, Inc.	BOIE Incorporated	Boie-Takeda Chemicals, Inc.	Boots Pharmaceuticals (Phils.), Inc.	Merck, Inc.	Bayer Philippines, Inc./Healthcare Division	Astra Pharmaceuticals (Phils.), Inc.	Sterling Products International, Inc.	Abbot Laboratories (Philippines)	United Laboratories, Inc.	Warner Lambert Philippines, Inc.	Interphil Laboratories, Inc.	GX International, Inc	Pfizer, Inc.	Colgate-Palmolive Philippines, Inc.	Johnson and Johnson (Philippines), Inc.	H.B. Fuller (Philippines), Inc.	Resicor Enterprises, Inc.
DI TSNI		13-80-0021	13-80-0022	13-80-0023	13-80-0024	13-80-0025	13-80-0026	13-80-0027	13-80-0028	13-80-0029	13-80-0030	13-80-0031		50-0033 50-0033	13-80-0034	13-80-0035	13-80-0036	13-80-0037	13-80-0038	13-80-0039	13-80-0040	13-80-0041	13-80-0042	13-80-0043	13-80-0044	13-80-0045	13-80-0046	13-80-0047	13-80-0048	13-80-0049

SHIP_QTY	TONNES	0.72			7.02	41.75		94.82	1.10				0.46	9.00	0.41			11.77	0.50		500.00	0.80	0.02	20.00	1.00				
PSIC1		3620	3812	3819	3819	3825	3825	3825	3825	3825	3825	3825	3832	3834	3839	3909	6170	6170	6170	6170	6170	6170	6170	6170	6170	6170	6170	6170	3211
INSTNAME		Philippine Glass Bulbs	Phoenix Iron and Steel Corp. (PISCOR)	Pilipinas YTK Industry, Inc.	Rowell Lithography and Metal Closure, Inc.	Philips Semiconductor Phils, Inc.	Pacific Semiconductors, Inc.	Motorola Philippines, Inc.	Zilog Philippines, Inc.	AMI (Philippines), Inc.	Amkor/Anam Pilipinas, Inc.	Automated Microelectronics, Inc.	Philips Consumer Products	Eveready Battery Company (Phils.), Inc.	Philips Electronics and Lighting, Inc.	3M Phils, Inc.	Elan Pharma Phils., Inc.	Wellcome Philippines, Inc.	G. D. Searle Philippines, Inc.	RP Chem. Inc.	Alcon Laboratories (Phil.) Inc.	ARMEDIC Philippines, Inc.	Schering Philippine Corporation	Marsman and Co., Inc.	Upjohn Inc.	Rhone-Poulenc Rorer Phils., Inc.	Sanofi Philippines, Inc.	Boehringer Ingelheim Phils., Inc.	Panelon Philippines, Inc.
DI_TSNI		13-80-0051	13-80-0052	13-80-0053	13-80-0054	13-80-0055	13-80-0056	13-80-0057	13-80-0058	13-80-0059	13-80-0060	13-80-0061	13-80-0062	13-80-0063	13-80-0064	13-80-0065	13-80-0066	13-80-0067	13-80-0068	13-80-0069	13-80-0070	13-80-0071	13-80-0072	13-80-0073	13-80-0074	13-80-0075	13-80-0076	13-80-0077	13-80-0078

EMB Hazardous Waste Tracking Database

SHIP_QTY TORNES				182.70	2.66				7.56	0.54					0.20		
PSIC	3511	3712	3560	3860	3825	3825	3511	3846	3513	3832					3513	3522	3210
INSTNAME	of sugardine of the state of the second second subscription of the second s	GST Philippines Inc.	Philippine Worldwide Mfg. Plastic Corp.	NAPOCOR - Maintenance Engineering Center	Alegro Microsystems Phils. Inc.	Epic Electronics Industries Corporation	Chemphil Albright & Wilson Corp.	Honda Philippines. Inc.	Almolac Incorporated	Astron Philippines Inc.	Manila Electric Company	L.G.Fernandez Plating Services	CD Electroplating and Fabrication, Inc.	American Packing Indsutries (Phils.) Corp.	Borden International Phils., Inc.	BOIE Incorporated	Gelmart Industries Phils., Inc.
INST_ID	13 BA AA70	13-80-001 3 13-80-0080	13-80-0000	13_80_0082	13-80-0083	13-80-0084	13-80-0085	13-80-0086	13_80_0087	13-80-0088	13-80-0089	13-80-0090	13-80-0091	13-80-0092	13-80-0093	13-80-0094	13-80-0095

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Table 8.8 Description of Waste Type

	WS NUMBER	WS NAME: A straight s
	HAZARDOUS WASTE NUMBER	WASTE NAME AND DESCRITPTION Discorded relations and safts with a cvanide concentration of less than 200 ppm
	A102	Discarded heat treatment solutions and salts with a cyanide concentration of less than 200 ppm
	A103	Plating solution and salts containing cyanides at a concentration exceeding 200 ppm.
	A104	Heat treatment solutions and salts containing cyanides at a concentration exceeding 200 ppm.
	A105	Complexed cyanide solutions and salts
	A199	Other cyanide wastes arising from the plating and heat treatment industries
	B201	Sulfuric acid
	B202	Hydrochloric acid
	B203	Nitric acid
	B204	Phosphoric acid
	B205	Hydrofluoric acid
	B206	Mixture of sulfuric and hydrochloric acid
8	B207	Other inorganic acids
3 -	B208	Organic acids
42	B299	Other mixed acids
	C301	Caustic soda
	C302	Potash
	C303	Alkaline cleaners
	C304	Ammonium hydroxide
	C305	Lime slurries
	C306	Lime-neutralized metal sludges
	C399	Other alkaline materials
	D401	Non-toxic salts
	D402	Arsenic and its compounds
	D403	Boron compounds
	D404	Cadmium and its compounds
	D406	Lead compounds
	D407	Mercury and mercuric compounds
	D405	Chromium compounds
-	D499	Other salts and complexes
	D501	Oxidizing agents

WASTE TYPE

A. Cal

	WS_NUMBER	WS NAME WORKENDER STATES AND A
	D502	Reducing agents
	D503	Explosive and unstable chemicals (wastes capable of detonation or explosive reaction)
		Highly reactive chemicals
		Aqueous-based
	-	Solvents-based
		Other mixed
		Flash point > 61c
		Flash point < 61c
		Chlorinated solvents and residues
		Animal/abattoir wastes
		Grease trap wastes from industrial or commercial premises
		Other putrescible/organic wastes
1		Tannery wastes
8 -		Other textile wastes
43		Waste oils
		Interceptor sludges
		Vegetable oils
		Waste tallow
		Oil/water mixtures
		Portable containers previously containing toxic chemical substances
		Solidified and polymerized wastes
		Chemically fixed wastes
		Encapsulated wastes
		Aliphatics
		Aromatic and phenolics
		Highly adorous
	L404	Surfactants and detergents
	L405	Halogenated solvents
	L406	Polychlorinated biphenyls and related materials
	L499	Other organic chemicals
	M501	Pathogenic or infectious wastes

WASTE TYPE

	lumber. — WASTENAME.AND'DESCRITPTION "EACH PARTY AND THE PARTY AND THE AND	Pharmaceutical wastes and drugs	Pesticides	Methanoi	Acetonitrile	Tetrahydrofuran	Pyridine	Chloroform	Diaphragm ceil process (DCP) waste	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel	Trichloroethylene	Methylene chloride	Lead sub-acetate	Sludge from the treatment of wastewater from wood preservation using creosote &/or pentachlorophenol	Sludge from treatment of process wastewater and/or acid plant blow-down from primary z	Sodium cyanide	Acetone	Xylene	Benzene		Did not report any hazardous waste materials	Primary copper	Inorganic pigments (sludges from chrome yellow and orange pigments)	Inorganic pigments (sludges from molybdate orange pigments)	Inorganic pigments (sludges from zin yellow pigments)	-	inorganic pigments (sludges from chrome oxide green pigments)		inorganic pigments (oven residue from chrome oxide green pigmenus) Ink formulation	Brine muds	
WS NUMBER	HAZARDOUS WASTE NUMBER MAGO2	M503	M504	N8 07	N511	N957	N921	N605	D409	M651	N975	N816	N776	~ M800	M740	N355	N510	366N	N540	N258		M701.	E603	E604	E605	E606	E607	E608	E609 E610		221

WASTE TYPE

WS NUMBER	WS_NAME
HAZARDOUS WASTE NUMBER	waste wave descrimption
D505	Explosive and unstable chemicals (sludges from manufacturing and processing of explosives)
D506	Explosive and unstable chemicals (spent carbon from the treatment of wastewater containing explosive
D506	Explosive and unstable chemicals (sludges from mfng, formtn and loading of lead-based iniating compd
D507	Explosive and unstable chemicals (pinkred water itori itori uperations)
F704	Non-halogenated
N991	Vinyl chloride
M650	Iron and steel
N252	Nickel carbonyl

Table 8.9 Description of Storage Methods Codes

12.25

WS_STORE	STOR_DESC
D	55-gallons drums
Т	Storage tanks
L	Lagoon/Pond
E	Evaporation
0	Original container
G	Glass containers
С	Plastic carbouys
Р	Plastic bags/polyethylene bags
В	Bottles
V	Process vessels
К	Knock-out drums
N	Open pit
J	Jute sacks/plastic sacks
A	Crates
F	Carbouys
1	Cans
Н	Bags
M	Tonner bags
Q	Pails (25-liter pails)
R	Concrete storage bins
Х	Stored in locked bodega
W	Septic tank
S	Steel tank
U	Open storage bodega
Y	Isolated room with atmospheric condition
Ζ	Boxes
	· · · · · · · · · · · · · · · · · · ·

Table 8.10 Description of Treatment and Disposal Methods Codes

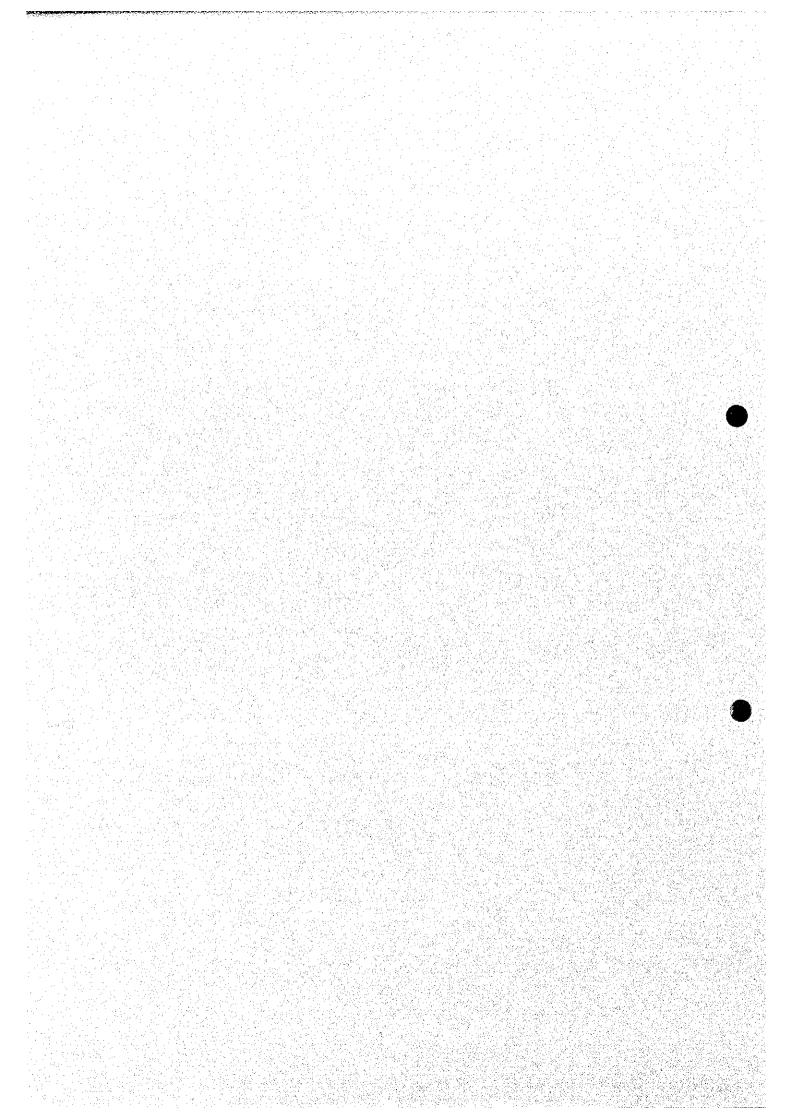
WS METHOD	METHOD DS
CODE	DESCRIPTION
	Incineration
	Lagoon / pit / pond
	Biological treatment (e.g. activated sludge)
B	-
С	Composting
D	Dumping / landfill / burial
S	Sold to interested entities / supplier
Н	Physico-chemical (e.g. neutralization, ppt'n)
R	Irrigation
Т	Returned to / removed by supplier
A	Hauling by a contractor / off-site treatment / disposal
W	Recycling / reuse / recovery
F	For future processing
0	For sale
E	Refined thru distillation / solvent recovery
U	Dilution (water or air)
Z	Sterilization
Ν	Flare burning
Х	Weathering
M	Land farming
P	Sea/ocean disposal
G	Concreting (immobilization)
J	Double-bagging and burying in ashpond
K	Co-disposal in ashpond
Q	Cooking / rendering
Y	Evaporation / venting to the atmosphere
· V.	Used as fuel
	Reinjection
\$	Oil / water separation
&	Gravity / mechanical separation
@ #	Scrubbing (venturi, biological or water)
	Aeration
% ·	Used as animal feed supplement / ingredient
· +	Drying (solar, mechanical, etc.)
1	Exported / marketed abroad
=	Waste exchange
ñ	
?	Electrochemical treatment
Λ	Municipal garbage collector
$\sim 10^{-10}$ e^{-10}	Chemical treatment
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

Table 8.11 Description of Units used in the Tables

UNITS	UNIT_DESC
CODE	DESCRIPTION
Т	Tonnes
KGS	Kilograms
LI	Liters
G	Gallons
LBS	Pounds
CUM	Cubic Meters
GRM	Grams
ST	Short tons
BAR	Barrels
BBL	bbls
CYL	Cylinder mass
PCS	Pieces
MG	Milligram
BAG	Bags

CHAPTER 9

INVENTORY SURVEY OF SOLID WASTE EQUIPMENT AND FACILITIES



9. INVENTORY SURVEY OF SOLID WASTE EQUIPMENT, FACILITIES AND ORGANIZATION

An inventory on solid waste equipment, facilities and organization is essential in understanding present conditions and the solid waste management capabilities of the MMDA, LGUs and private contractors. Thus, a survey was conducted from April 28 to May 31, 1997.

9.1 Objectives of the Survey

The survey aims to:

- Prepare a complete inventory on equipment, their total collection capacity and condition at the time of the survey.
- Prepare a complete inventory on facilities, type of facilities, location, capacity and ownership.
- . Determine the LGUs and private contractors' capability to maintain equipment.
- Determine total number of personnel and organizations involved in solid waste management.

9.2 Scope of the Survey

The survey covered:

- Ten cities of Metro Manila, namely, Manila, Pasay, Quezon, Caloocan, Marikina, Muntinlupa, Pasig, Makati, Mandaluyong and Las Piñas.
- Seven municipalities of San Juan, Pateros, Malabon, Navotas, Valenzuela, Taguig, and Parañaque.
- . Thirty six private hauling companies contracted by the LGUs.
- Metro Manila Development Authority, which provides collection and street sweeping support for LGUs, maintains the Las Pinas Transfer Station and operates two sanitary landfill disposal sites at San Mateo, Rizal and Carmona, Cavite.

The inventory of the following was completed for each LGU/Company:

- Equipment (collection and haulage, transfer, and final disposal)
 - Plate and body no.
 - Type and loading capacity
 - Engine status (whether good, or needing minor or major repair)
 - Body status (whether good, fair or poor)
 - Model (or year of manufacture)
 - . Status when acquired (whether second hand, reconditioned or new)

- Facilities (depot and maintenance, transfer, and final disposal)

- Type of facility
- Location or address
- . Capacity or land area
- Ownership (owned or rented)

In the case of transfer facilities, the survey indicated the following type of transfer:

- by *stage type*, where the collection vehicle goes up an elevated stage and the load is transferred to another equipment under the stage;
- by *payloader*, where waste is first unloaded to an open heaping area and reloaded to a bigger hauling vehicle by shovel or payloader;
- by *mini-dump trucks to a larger vehicle* or compactor, or stationary containers picked up by trucks or trailer vans;
- . by collection vehicle to compactor trailer van (as in the Las Piñas Transfer Station).

In the case of depots and garages, the survey indicated whether the individual LGU and/or the private contractors under them are capable of equipment maintenance (i.e., undertake minor or major engine repair or body repair work).

- Organization

- Deployment
 - Administration
 - Operations (regular)
 - Collection
 - Beautification
 - Depot, maintenance, motorpool
 - Transfer station
 - Dumpsite operation
 - MMDA back-up
 - Special project/operation
- Type of Personnel
 - Supervisor (head or assistant, managerial level)
 - Technical staff
 - Administrative staff
 - Clerical staff
 - Operations officer
 - Operations staff
 - Monitoring staff
 - Inspector
 - Driver
 - Garbage collector (palero, helper, laborer)
 - Street sweeper
 - Engineer
 - Mechanic
 - Heavy equipment operator
 - Dispatcher
 - Environmental enforcers

9.3 Methodology

Questionnaires were developed for the conduct of the following inventory surveys:

- . Equipment Survey
- . Facilities Survey
- Organization Survey

Facsimiles of these survey questionnaires are attached in the end of this chapter. The survey was then conducted through the following process:

- **Notification.** Letters were sent to the mayors (local chief executives), reminding them about the project and the preliminary studies needed for master planning, and requesting their assistance to facilitate the conduct of the survey. The area managers were also furnished copies of these communications.
- *Orientation.* The area managers and their representatives were oriented on the purpose and use of the survey instruments.
- Accomplishment of the Survey Instruments. The staff of the LGUs and private companies answered the questionnaires. The survey staff visited the offices of the area managers and the private contractors.
- Submission of Answered Questionnaires. The area managers of LGUs and the operations managers of private companies reviewed the questionnaires before submitting them to the survey staff.
- **Tabulation.** The results of the survey were tabulated and the figures were reviewed for consistency. Missing or wrong data were cleared with the area managers and the knowledgeable MMDA staff.
- . Preparation of the Report. The results were consolidated into this report.

9.4 Results

9.4.1 Equipment Inventory

Type and Loading Capacity of Equipment

The equipment utilized for waste collection and haulage are generally of two types:

- Closed compactor vehicles (C5, C8, C12, C15 and special compactors)
- Open dump trucks (6 wheeler, 10 wheeler, and mini-dump trucks)

The reported loading capacities of these equipment vary due to the following factors:

- . Different manufacturing specifications
- Modifications to the containers by local haulers
- Compaction efficiency of the equipment
- Different ocular estimates of the contractors
- Compliance with the minimum volume requirements of LGU

The compactor vehicles have the following capacities:

	F		U 1
1)	C5	-	5-8 m³
2)	C8		8-12 m ³
3)	C12	-	12-16 m ³
4)	C15	-	15-24 m ³
5)	Special Compactors	-	40-72 m ³
5)	Special Compactors	→	40-72 m ³

The dump trucks, on the other hand, have the following range of capacities:

1)	6 wheeler dump trucks	-	10-12 m ³
2)	10 wheeler dump trucks	-	15-18 m³
3)	Mini-dump trucks	-	8 m ³ or less

The type and quantity of equipment by city/municipality are shown in Table 9.1.

A total of 1,303 operational vehicles/equipment (excluding non-serviceable units and those undergoing major repairs) are used for collection and haulage. These consist of 274 compactors and 1,029 dump trucks, *including 32 vehicles registered in more than one city/municipality*. Of the total equipment inventory, the MMDA owned 47 units (3.6 %), while the 17 LGUs accounted for 165 units (12.7 %). The private contractors hold the remaining 1,091 units (83.7 %).

LGU	Comp	actors				Dump	Trucks		Total
	C5	C8	C12	C15	Special	6 W	10 W	Mini	
Manila	9	24	0	0	60	7	123	0	223
Quezon City	3	. 7	2	0	15	59	182	12	280
Makati	0	3	0	1	0	65	90	0	159
Pasay	4	- 2	0	0	0	28	15	0	49
Muntinlupa	1	2	0	0	0	29	0	0	32
Mandaluyong	0	2	0	0	0	29	54	0	85
Parañaque	0	0	0	0	8	· 0	26	2	36
Las Piñas	10	20	0	0	0	0	0	0	30
Marikina	13	2	0	0	· 0·	0	0	0	- 15
Pasig	6	0	0	4	4	0	74	11	99
Pateros	3	3	0	1	0	0	0	2	9
San Juan	0	0	0	. 0	15	1	12	6	34
Taguig	0	0	1	· 0	0	1	18	1	21
Caloocan	0	0	· 0	2	0.	. 5	54	45	106
Malabon	1	3	0	0	0	24	- 1	2.1	31
Navotas	0	0	0	0	0	3	. 9	10	22
Valenzuela	0	0	0	. 0 .	0	0	. 7	18	25
MMDA	7.	22	0	13	1	0	4	. 0	47
TOTAL	57	90	3	21	103	251	669	109	1303

Table 9.1.	Type and O	uantity of Eq	uipment by LGU
A 990/AV 21A1 .	~ / / / / / / / / / / / /	~~~~	

Note: **6** W – six wheeler dump trucks; **10** W – 10 wheeler dump trucks; **Mini** – Mini-dump trucks The number of waste collection equipment by ownership is presented in Table 9.2 below.

LGU	MMDA or LGU Equipment (No.)	Private Equipment (No.)	Total
Manila	5	218	223
Quezon City	6	274	280
Makati	3	156	159
Pasay	6	43	49
Muntinlupa	3	29	32
Mandaluyong	7	78	85
Paranaque	8	28	36
Las Pinas	30	0	30
Marikina	15	0	15
Pasig	40	59	99
Pateros	9	0	9
San Juan	7	27	34
Taguig	3	18	21
Caloocan	2	104	106
Malabon	7	24	31
Navotas	14	8	22
Valenzuela	0	25	25
MMDA	47	0	47
TOTAL	212	1091	1303

Table 9.2. Waste Collection equipment BY ownership

Table 9.3 shows the estimated equipment capacity per trip. The estimated total loading capacity of the 1,303 collection and haulage vehicles is 21,914.7 m³. (*Note: Differences in decimal points are due to rounding off.*) The compactors account for 7,447.4 m³. (34.0%) of the load, while the dump trucks carry 14,467.3 (66.0%) of the waste. The MMDA accounted for 715.6 m³ (3.3%), while the 17 cities and municipalities had a combined carrying capacity of 21,199.1 m³. (96.7%).

							(unit:	cm ³)	
LGU		Со	mpact	ors		· Di	imp Truck	s	Total
	C5	C8	C12	C15	Special	6 W	10 W	Mini	· · · ·
Manila	72	330.0	0	0	2,412	70	2,139.0	0	5,023.0
Quezon City	24	79.6	32	0	1,078	592	2,912.0	94	4,811.6
Makati	0	33.6	0	24	0	712	1,386.0	0	2,155.6
Pasay	20	16.0	0	0	0	335	304.5	• • 0	675.5
Muntinlupa	5	25.6	0	0	0	435	0	. 0	465.6
Mandaluyong	. 0	24.0	0	0	0	337	744.8	.0	1,105.8
Paranaque	0	0	0	0	579	0	390.0	12	981.0
Las Pinas	60	240.0	0	0	0	0	0	0	300.0
Marikina	69	24.0	0	0	0	0	0	0	93.0
Pasig	30	0	0	88	290	0	1,292.0	55	1,755.0
Pateros	. 18	36.0	0	24	0	0	0	- 5	83.0
San Juan	0	0	0	0	1,078	10	228.0	36	1,352.0
Taguig	. 0	0	20	0	0	10	270.0	6	306.0
Caloocan	0	0	0	30	0	50	906.0	360	1,346.0
Malabon	5	25.0	0	0	0	232	16.0	10	288.0
Navotas	0	. 0	0	0	0	30	144.0	35	209.0
Valenzuela	0	0	0	0	. 0	0	105.0	144	249.0
MMDA	42	281.6	0	312	20	0	60.0	0	715.6
TOTAL	345	1,115.4	52	478	5,547	2,813	10,897.3	757	21,914.7

 Table 9.3.
 Estimated. Equipment Capacity PER TRIP by LGU

Table 9.4 shows the breakdown of equipment carrying capacity of the MMDA, the LGUs and the private contractors, by city/municipality.

City/Municipality	Capacity	(m ³)	Total
• • •	MMDA or LGU	Private	
Manila	53.0	4970.0	5023.0
Quezon City	61.6	4750.4	4812.0
Makati	49.6	2106.0	2155.6
Pasay	36.0	639.1	675.1
Muntinlupa	30.6	435.0	465.6
Mandaluyong	80.0	1025.6	1105.6
Paranaque	102.0	878.6	980.6
Las Pinas	300.0	0	300.0
Marikina	93.0	0	93.0
Pasig	496.0	1259.4	1755.4
Pateros	83.0	0	83.0
San Juan	46.0	1306.4	1352.4
Taguig	36.0	270.0	306.0
Caloocan	30.0	1316.0	1346.0
Malabon	58.0	230.0	288.0
Navotas	81.0	128.0	209.0
Valenzuela	0	249.0	249.0
MMDA	715.6	0	715.6
TOTAL	2351.4	19563.5	21914.9

Table 9.4.	Equipment	Carrying	Capacity	of	MMDA,	LGUs	and
	Private Contra	actors by City	/Municipality				

The MMDA and the 17 cities and municipalities have a combined carrying capacity of 2,351.4 m³ (10.7%), while private contractors have a total carrying capacity of 19,563.5 m³ (89.3%).

Present Condition, Model, and Status of Equipment When Acquired

Table 9.5 shows the present condition, model and status of the equipment when acquired. The majority of the 1,303 operational collection and haulage vehicles is in good condition --87 % of the engine is in good condition, while 13 % need minor repair. On the other hand, 73 % of the body is in good shape.

Of the total 1,403 vehicles (including 76 units needing major repair and 24 non-serviceable), the year of manufacture of 476 units (34.09 %) is not known. Those manufactured within the last six years (from 1991-1995) total 472 units (33.6 %), over six but not more than 10 years old consist of 262 units (18.7 %), over 10 but not more than 15 years old, 114 units (8.1 %), and over 15 but not more than 20 years old, 25 units (1.8 %). Only 54 vehicles (3.8 %) are older than 20 years.

Of the 1,403 equipment, 640 were bought reconditioned, 376 new, and 343 second hand. The symbols used in the succeeding tables (Tables 9.5, 9.6-A, 9.6-B) have the following meanings:

Engine condition	good	G
	needing minor repair	Min
	needing major repair	Maj
	rood	G
Body condition	good	
	fair	F
•	poor	Р
	· .	
Model or year of manufacture	1991-95	A
	1986-90	В
	1981-85	С
	1976-80	D
	more than 20 years	E
	unknown	\mathbf{F}
Status when acquired	second hand	S
	reconditioned	R
	new	N

LGU		CO	NDI	rion			MODEL OR YEAR OF MANUFACTURE)F	STATUS WHEN ACQUIRED			
	EN	GINI	£	E	SODA	ζ										
	G	Min	Мај	G	F^{-1}	P	Α	B	С	D	E	F	S	R	Ν	
Manila	210	13	10	148	81	4	133	53	39	8	0	0	53	26	154	
Quezon City	242	38	4	227	46	11	28	2	0	0	0	254	42	213	29	
Makati	148	11	5	107	53	5	45	39	7	7	31	36	79	77	9	
Pasay	44	5	0	49	0	0	0	6	43	0	0	. 0	34	13	2	
Muntinlupa	29	3	0	33	0	6	5	34	0	0	0	0	17	0	22	
Mandaluyong	80	5	4	80	9	0	11	0	0	0	0	78	35	43	11	
Parañaque	- 36	0	2	36	0	2	28	10	0	0	0	0	2	8	28	
Las Piñas	30	0	0	30	0	0	30	0	0	0	0	0	0	30	0	
Marikina	12	3	24	17	23	0	21	0	0	0	0	19	0	35	5	
Pasig	76	23	6	93	11	4	48	5	4	3	0	48	24	63	21	
Pateros	- 5	4	0	3	6	1	6	4	0	0	0	0	0	0	10	
San Juan	31	3	3	33	3	1	24	9	4	0	0	0	0	14	23	
Taguig	18	- 3	0	18	3	3	6	0	0	0	18	0	0	19	5	
Caloocan	106	0	0	70	36	1	37	38	15	7	5	5	25	82	- 0	
Malabon	29	2	1	12	19	1	7	0	1	0	0	24	24	5	3	
Navotas	21	1	2	14	8	2	12	0	0	0	0	12	8	4	12	
Valenzuela	25	0	0	25	0	0	25	0	0	0	0	0	0	25	0	
MMDA	. 36	11	15	0	50	19	6	62	1	0	0	0	0	0	69	
TOTAL	1178	125	76	995	348	60	472	262	114	25	54	476	343	657	403	

Table 9.5. Present Condition, Model, and Status of Equipment When Acquired

The inventory found 100 vehicles to be non-operational, of which 76 units are undergoing major repair and 24 non-serviceable. The following areas have non-serviceable units: Makati (1), Muntinlupa (7), Marikina (1), Pasig (3), Pateros (1), Taguig (3), Caloocan (1), and MMDA (7).

Tables 9.6 shows the distribution of equipment by condition, model and status, per LGU and private contractor.

LGU		(COND	ITION	I		MODEL OR YEAR OF MANUFACTURE						STATUS WHEN ACQUIRED		
	ENGINE			В	ODY		· · · ·							•	
	G	Min	Maj	G	F	P	A	B	С	D	E	F	S	R	N
MANILA	210	. 13	10	148	81	4	133	53	39	8			53	26	154
LGU	5			5				3	2				5		1
Private	205	13	10	143	81	4	133	50	37	8			48	26	154
QUEZON CITY	242	38	4	227	46	- 11	28	2				254	42	213	29
LGU	6			6			1	2				3	2	3.	1
Private	236	38	4	221	46	11	27					251	40	210	28
MAKATI	148	11	5	107	53	5	45	39	7	7	31	36	79	77	9
LGU	3		3	1	2	4		7					7		[
Private	145	11	2	106	51	1	45	32	7	7	31	36	72	77	9
PASAY	44	5		49				6	43				34	13	2
LGU	5	î		6				6		<u> </u>				4	2
Private	39	4		43					43		[34	9	1
MUNTINLUPA	29	3		33		6	5	34					17		22
LGU	3			4		6	2	8			1		8	1	2
Private	26	3		29			3	26			·		9		20
MANDALUYONG	80	5	4	80	9		11					78	35	43	11
LGU	2	5	4	2 -	9	· · ·	11		:		1	78			11
Private	78			78			·			· .			35	43	·
PARAÑAQUE	36		2	36		2	28	10				1.1	2	8	28
LGU	8		2	8		2		10					2	8	<u> </u>
Private	28			28			28					· .			28
LAS PIÑAS (LGU)	30			30			30						1	30	<u> </u>
MARIKINA (LGU)	12	3	24	17	23		21		1997	<u> </u>		19		35	5
PASIG	76	23	6	93	11	4	48	5	4	3	<u> </u>	48	24	63	21
LGU	25	15	6	36	10	3	40				<u> </u>	9		35	14
Private	51	8		57	1	1	- 8	· 5	4	3	 	39	24	28	1
PATEROS (LGU)	5	4		3		1	6	. 4			<u> </u>		<u> </u>	<u> </u>	10
SAN JUAN	31	3	3	33	3	1	24	9	4	<u> </u>	+	h	<u> </u>	14	23
LGU	7		1	. 8		-	8			<u> ·</u>			<u> </u>	···	8
Private	24	3	2	25	3	1	16	9	4			 	 	14	15
TAGUIG	18	3		18	3	3	6				18			19	5
LGU		3			3	3	6					<u>+</u>		1	5
Private	18			18							18	<u> </u>	:	18	-
CALOOCAN	106			70	36	1	37	38	15	7	5	5	25	82	
LGU	2			2		1		3		<u> </u>			3		<u> </u>
Private	104			68	36		37	35	15	7	5	5	22	82	<u></u>
MALABON	29	2	1	12	19	1	7	Ó	1			24	24	5	3
LGU	7			7			- ·-				<u> </u>	7	2	5	<u> </u>
Private	22	2	1	5	19	1	7	· · ·	1		1	17	22	<u>+-</u>	3
NAVOTAS	21	1	2	14	8	2	12			<u> </u>	+	12	8	4	12
LGU	14	<u> </u>		14	ļ	<u> </u>	10			†	╂───	4	†	4	10
Private	7	1	2	<u> </u>	8	2	2				+	8	8	·	2
VALENZUELA (PC)	25		<u> </u>	25	<u> </u>	<u> </u>	25			+	┼──	+	+	25	0
MMDA	36	11	15	~ ~~	50	19	6	62	1	<u> </u>	+		<u> </u>		69
TOTAL	1178	ļ	76	995	348	60	472	262	114	25	54	476	343	657	403

Table 9.6-A.Present Condition, Model, and Status of Equipment When Acquired,
per LGU

Table 9.6-B.Present Condition, Model, and Status of Equipment When Acquired
by LGU, MMDA and private contractor

		CONDITION							MODEL OR YEAR OF MANUFACTURE						S { ED
	ENG	INE		BO	DY										
	G	Min	Мај	G	F	P	Λ	B	С	D	E	F	S	R	N
LGU and MMDA	170	42	55	149	103	39	141	105	3	0	0	42	29	125	137
Private Contractors	1008	83	21	846	245	21	331	157	111	25	54	434	314	532	266
TOTAL	1178	125	76	995	348	60	472	262	114	25	54	476	343	657	403

Transfer, Disposal and Other Equipment

Other equipment utilized for transfer, final disposal and other related solid waste management functions include the following:

- Transfer Equipment:
 - Trailer Van (TV)
 - Bulldozer (BD)
 - Payloader (PL)
 - Backhoe (BH)
 - Grader (G)
 - Prime Mover (PM)
 - Water Tank (WT)
 - Others (motorized sprayer, etc.)

Final Disposal:

- Bulldozer (BD)
- Payloader (PL)
- Trash Compactor (TC)
- Backhoe (BH)
- Water Tank (WT)
- Dump truck (DT)
- Others (motor sprayer, fogging machine, generator, trash compactor)
- Street Sweeping:
- Mechanical Street Sweeper (SS)
- Sewer Jet (SJ)
- Water Tank (WT)
- Trash Bin (TB)
- Others (generator, chain saw, mini jackhammer, etc.)

Table 9.7 shows the type of other equipment used by LGUs and private companies for transfer, disposal and related solid waste management functions.

LGU	TR	ANS	SFE	R				DIS	SPO	SAL	,			OTHER EQUIPMENT					
	ΤV	BD	PL	BH	РМ	wr	0	BD	PĬ.	TC	BH	WT	DT	0	SS	SJ -	WT	TB -	Ō
Manila	32		6	3		1	1								7				2
Quezon City								9	1	3	1				2	1	2		
Makati	T																		
Pasay	T		2																
Muntinlupa		1															1		
Mandaluyong																I			
Parañaque	5	1	3	2											I			200	Ĺ
Las Piñas		•																	
Marikina	T	I		· ·				I											
Pasig		T	3																
Pateros														·					
San Juan			1			i								I	L		<u></u>		
Taguig			1	1													2		
Caloocan		3	7												3				
Malabon			1																
Navotas			1												<u> </u>	· ·			
Valenzuela		1	1		I												Ĺ		
MMDA Las	15	1	1		15				1										
Pinas T. S.				<u> </u>	L	L		ļ	L					ļ	ļ	ļ	Ŀ.	L	
MMDA San							{	7	1	2		1		3	1	1			
Mateo SLF		<u> </u>	.	<u> </u>	 	Ļ		_	ļ	ļ	 	ļ		<u> </u>	 		 	ļ	<u> </u>
MMDA								7	1	2	1	1	4	3			l .		1
Carmona SLF		<u> </u>	ļ	<u> </u>	Ļ	ļ	ļ	ļ			<u> </u>			.	 	ļ	<u> </u>	ļ	┝
TOTAL	52	6	27	6	15	1	1	23	4	7	2	2	4	6	12	1	5	200	2

Table 9.7. Type and Quantity of Other Equipment by LGU

Note: TV – Trailer Van; BD – Bulldozer; PL – Payloader; BH – Backhoe; G – Grader; PM – Prime Mover; WT – Water Tank; TC – Trash Compactor; DT – Dump Truck; SS Mechanical Street Sweeper; SJ – Sewer Jet; TB – Trash Bin; O - Others The Las Piñas Transfer Station utilizes 15 units of trailer vans, while Manila and Parañaque have 32 and five units of trailer vans, respectively. A trailer van has an average capacity of 85 m³.

Twelve LGUs (and private contractors under their employ) use other equipment, such as bulldozers, payloaders, graders, etc. for individual transfer systems, disposal, and related solid waste functions:

I. Manila

- 2. Quezon City
- 3. Pasay
- 4. Muntinlupa
- 5. Parañaque
- 6. Pasig
- 7. San Juan
- 8. Taguig
- 9. Caloocan
- 10. Malabon
- 11. Navotas
- 12. Valenzuela

Ten wheeler dump trucks are also utilized by some private companies as transfer equipment, to reload the waste from smaller vehicles in order to economize on trips to the dump site.

9.4.2 Inventory of Facilities

An inventory on the following facilities for collection, transfer and disposal was conducted:

- Depot or garages
- Maintenance shops
- Transfer stations (including individual transfer stations operated by some LGUs and private companies)
 - Disposal sites (both open dump sites and sanitary landfills)

The inventory determined the following:

- Type of facility
- Land area
- Ownership
- . General supervision, management and maintenance of the facility

Transfer facilities are of four types, namely: (1) by stage, (2) by payloader, (3) by smaller to a larger reloading vehicle, and (4) by compactor trailer van.

Depot, Garage and Maintenance Shop

Table 9.8 shows the depots and maintenance shops of LGUs.

Table 9.8

LGU Depots and Maintenance Shops

LGU	Depot	or Ga	rage			Ma	uinter	ance	Shop	·			
	Land Area (km²)	Owne	e r ship	Land Area (km²)	Area					e Capability			
								Engin	e	Body			
		0	R		0	R	N	Min	Maj	N	Min	Maj	
Manila							1	1	X	1			
Quezon	16,000	1		same	1			1			1	1	
	320	1			1		1	1		1	1		
Makati	3,000	1			1		1			1		1	
Pasay		T		300	1		1			1	1		
Muntinlupa	200	T	1	same	1			1			1		
Mandaluyong	300	1					1	1		1			
Parañaque	3,000	1			T		1	1		1		†	
Las Piñas		1			1		1			1			
Marikina	13,550	1		· ·	1		1			1		1	
Pasig	8,000	1		same	1				1	• •		1	
Pateros	1,500	1	1	same	1			1		• 1	1		
San Juan	1,000	1			1		1	f		1			
Taguig		1					1	 		1	1		
Kalookan	5,000		1		1			1			1		
Malabon		1	ł	_	Ī		1			1		<u> </u>	
Navotas		I			T		1	1		1	1	1	
Valenzuela					I		1	1		1	1		
MMDA	1,000	1		same	1			1			1	1	
	200	1		same	1			1			1	1. J.	
Total	53,070	12	3		7		14	6	1	15	5	1	

The MMDA maintains two depots and garage with integrated maintenance shops that perform minor engine and body repairs.

Manila, Pasay, Las Piñas, Taguig, Malabon, Navotas and Valenzuela do not have any depot or garage. Only Quezon, Pasay, Muntinlupa, Pasig, and Pateros have their own maintenance shops. Of the five LGUs, only Pasig has the capability for major engine and body repairs.

Except for Las Piñas, Marikina and Pateros, all LGUs employ private companies who have their own garage and maintenance shops. These private companies can undertake major engine and body repair work.

Transfer Stations

The MMDA owns the only collective transfer station of Metro Manila, which is located at Las Piñas.

Table 9.9.	Collective	Transfer	Station
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Name of Facility	Service Area	Location	Area (km²)	Он	vn	0	ps	Ma	tint	Si	ир
				G	P	G	P	G	P	G	P
Las Piñas	Las Piñas,	Las Piñas City	20,000	1			1		1	1	
Transfer	Parañaque,										
Station	Muntinlupa,									ļ	
	Pasay, Makati										

er,

Note: Own – Ownership; Ops – Operations; Maint – Maintenance; Sup – Supervision; G – Government; P – Private

The Las Piñas Transfer Station serves Las Piñas, Makati, Muntinlupa, Parañaque, Pasay and Taguig. The MMDA has privatized the operation and maintenance of the facility.

Table 9.10. Individual Transfer Stations

LGU	Service Area	Location(s)	Area (km²)	Į O v	vn	O]	ps	Ma	int	Sı	up
				G	P	G	P	G	P	G	P
TYPE A: STA	AGE TYPE							<u> </u>			
Pasig	Pasig City	Kaniyugan, Pasig	8,000	1		1		1		1	
Marikina	Marikina	Sta. Elena, Marikina	550	1		1		1		1	
		Sub-Total	8,550	2		2		2		2	
TYPE B: BY	PAYLOADER										
Manila	Manila, Navotas, and northern LGUs	 C-4, R-10, Tondo Pier 2 North Harbor 	1,500 2,000	1 1		1	1	1	1	1	1
Malabon	Malabon, Caloocan and northern LGUs	C-3 Dagat-dagatanAcacia	10,000 1,000		1		1 1		1		1 1
Valenzuela	Valenzuela	Hi-way, Paso de Blas	200		1		1		1	Ī	1
Parañaque	Parañaque	Palanyag 400 Base	1,000	1		1			1	1	
Pasay	Pasay City	Reclamation Area	800		1		1		1		1
Caloocan	Caloocan City	C-3 Old Caltex	550		1	İ	1	1	1	1	1
		Sub-Total	17,050	3	5	2	6	1	7	2	6
TYPE C: BY	LARGER RELOADING	J VEHICLES									
Caloocan	Caloocan City	 Himlayan Road Tirad Pass cor, Malvar Santiago 	15,000 600 2,000		1 1 1		1 1 1		1 1 1		1 1 1
Malabon	Malabon and Navotas		8,000		1	t	1	†	1	<u>†</u>	1
		Sub-Total	25,600	<u> </u>	4	 	4	1	4	†	4
· · · · · · · · · · · · · · · · · · ·		GRAND TOTAL	51,200	5	9	4	10	3	11	4	10

Note: Own – Ownership; Ops – Operations; Maint – Maintenance; Sup – Supervision; G – Government; P – Private

Five LGUs and nine private contractors operate a total of 14 individual transfer stations. The types of individual transfer stations by LGU are as follows:

- Type A (by stage): Pasig and Marikina
- Type B (by payloader): Manila, Malabon, Valenzuela, Parañaque, Pasay, and Caloocan
- Type C (by larger reloading vehicles): Caloocan and Malabon

Private contractors operate 10 of the 14 transfer facilities, 11 of which are maintained privately. The government, however, maintains general supervision over 10 of the facilities.

Disposal Sites

Table 9.11 lists the final disposal sites of Metro Manila.

Table 9.11. Final Waste Disposal Sites

FACILITY	Location (or Address)	Service Areas	Capacity (km²)	01	vn	0	ps	Ма	int	S	ир
				G	P	G	P	G	P	G	P
Payatas dump site	Payatas, QC	Quezon City, NCR	200,680		1	1			1	1	
San Mateo SLF	San Mateo, Rizal	NCR and adjoining towns	730,000	1			.1		1	1	
Carmona SLF	Carmona, Cavite	NCR and adjoining towns	659,000	1			1		1	1	
Catmon dump site	Malabon	Malabon	18,000		1		1		1	1	
·····	TOTAL DI	SPOSAL SITES	1,607,680	2	2	2	3		4	4	1

Note: Own – Ownership; Ops – Operations; Maint – Maintenance; Sup – Supervision; G – Government; P – Private

The MMDA owns and supervises the sanitary landfill sites at San Mateo, Rizal and Carmona, Cavite, while the two open dump sites at Payatas, Quezon City and Catmon, Malabon are privately owned.

9.4.3 Organization

A total of 14,623 personnel are involved in solid waste management. The LGUs account for 8,420 people (57.6 %), while the private contractors employ 6,203 (or 42.4 %). The number of LGU personnel by functional deployment is shown in Table 9.12.

LGU	Adm	Ops	C	oll	Bea	au	DMM	TS	Dump	MMDA	SP	TOTAL
			D	С	Sw	0						
Manila	51	36	0	0	189	0	3	0	0	0	0	279
Quezon City	48	98	0	15	32	82	0	0	16	524	94	909
Makati	37	48	0	91	243	11	1	0	0	0	35	466
Pasay	1	9	4	8	20	0	0	0	0	0	0	42
Muntinlupa	19	12	0	9	57	16	8	0	0	0	670	791
Mandaluyong	11	- 2	11	12	272	0	0	0	0	0	0	308
Parañaque	20	12	21	0	225	0	2	4	0	0	0	284
Las Piñas	16	0	42	84	565	0	8	0	0	0	0	715
Marikina	8	38	50	150	60	0	4	0	0	0	0	310
Pasig	9	16	38	150	420	0	2	4	0	0	0	639
Pateros	4	0	5	21	33	- 0	2	0	0	0	0	65
San Juan	4	3	7	0	26	0	0	0	. 0	0	0	40
Taguig	16	33	4	12	129	0	1	0	0	0	0	195
Caloocan	14	6	0	0	207	- 0	0	0	0	. 0	0	227
Malabon	5	7	15	20	60	25	0	0	8	7	0	147
Navotas	1	4	0	0	15	0	2	0	0	0	· 0	
Valenzuela	3	7	8	24	41	0	2	0	0	0	0	85
MMDA-	27	17	0	0	0	0	· 0	0	0	0	0	44
PMO/SWMTF				· · ·		1.1		ļ				
MMDA-ESC	0	0	0	· 0	0	2,416	0	0	0	0	324	2,740
MMDA-San	0	0	0	0	0	0	- 0	0	11	0	0	11
Mateo LSF		<u> </u>	·			L			<u> </u>			
Las Piñas-TS	0	0	- 0	0	0	0	0	5	0	0	0	5
MMDA-	0	0	0	0	0	0	0,	0	8	0	0	··· 8
Carmona LSF	ļ	<u> </u>	·	· · ·		·	_	 				
MMDA-107	2	0	29	0	0	0	0	0	0	0	0	31
MMDA-103	25	39	8	0	. 0	0	0	0	0	0	. 0	72
Total	321	387	242	596	2,594	2,550	35	13	43	531	1,123	8,435

Table 9.12. LGU Personnel Deployment by Function

Note: Adm – Administration; Ops - Operations (Regular); Coll – Collection; Beau – Beautification; DMM - Depot, Maintenance, Motorpool; TS - Transfer Station; Dump - Dump Site Operation; MMDA - MMDA Back-up; SP - Special Project/Operation; D – Driver; C – Collector; Sw – Street sweepers; O – Others (i.e., grass cutters, etc.)

Private contractors employ 6,203 personnel, with *Collection* absorbing the lion's share of 5,235 workers (84.4 %).

Private Contractor		Collectio	n	Be	autifica	tion	Total
	D	C	ST	SW	0	ST	
Manila: Leonel	240	699	939	250	0	250	1,189
Quezon City	[1	1			
REN-Q.C.	200	1,000	1,200	0	· 0	0	1,200
TRANSTAR	0	0	0	0	0	0	1,200
HALREY	40	139	179	0	0	0	179
GREENLINE-E	33	230	263	0	0	0	263
NIDC	8	24	32	0	0	0.	32
LRP	17	59	76	0	0	0	76
Caloocan				<u> </u>	, v		70
MUD-REGAL	22	78	100	0	0	0	100
LDM	18	7	25	0	0	0	25
R&F	7	5	12	0	0	0	12
ETS	5	12	17	0	0	0	12
HALREY	13	43	56	0	0	0	56
EDC	27	60	87	0	0	0	87
FELGENE	12	43	55		0		
Malabon	12	4	<u> </u>	0		0	55
HAULERS	10	33	43		0		
MPH	<u> </u>	15	20	0	0	0	43
Valenzuela: HALREY	20	66		0	0	0	20
Navotas: HAULERS	12	52	86	0	0	0	86
Pasig	12.	52	64	0	0	0	64
REDFOX	<u>-</u>						
	- 5	20	25	0	0	0	25
METROWIDE E		28	35	0	0	0	35
IPM TR VAD	10	40	50	0	0	0	50
RB YAP	4	16	20	0	0	0	20
B.BAL	4	16	20	0	0	0	20
TUAZON	5	20	25	0	0	0	25
METROWIDE M	14	56	- 70	0	0	0	70
SVR	· 1	4	5	0	0	0	5
JRD	9	36	45	0	0	0	45
EER	3	12	15	0	0	0	. 15
Makati				ļ			
ACY	39	125	164	0	0	· 0	164
JSDG	24	96	120	0	0	0	120
NJ BAUTISTA	22	. 88	110	0	0	0	110
RTM	- 24	79	103	0	. 0	0	103
REN	32	128	160	0	0	0	160
Mandaluyong	L		· · · · · ·				
LEG H	41	117	158	0	0	0	158
RMMS	78	312	390	0	0	0	390
Parañaque							
EJR	20	80	100	0	0	0	100
GREENLINE E	33	180	213	0	0	0	213
HINTERLAND	5	20	25	0	0	0	25
Muntinlupa: REDFOX	28	100	128	0	- 0	0	128
TOTAL	1,097	4,138	5,235	250	0	250	5,485

 Table 9.13.
 Collection and Beautification: Private Personnel

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Note: D – Driver; C – Collector; Sw – Street sweepers; O – Others (i.e., grass cutters, etc.)

9.5 Summary of Findings

Number of Collection Vehicles

Metro Manila has a total of 1,303 operational collection vehicles, broken down as follows:

	No. of Units	Percentage
MMDA	47	3.6
LGUs	165	12.7
Private Contractors	1,091	83.7

Type of Collection Vehicles

The equipment utilized for waste collection and haulage are generally of two types:

	No. of	Percentage
	Units	
Compactors	274	21.0
Open Dump Trucks	1029	79.0

Carrying Capacity of Collection Vehicles

The combined carrying capacity per trip of all the vehicles is estimated at 21,200m³ approximately.

. Total Disposal Volume

The total disposal volume is estimated at 14,500 m³ approximately.

Required Average Number of Trips per Day per LGU Based on the above estimates, the average required number of trips per LGU is presented in Table 9.14:

LGU	Waste Collection	Carrying	Required Ave.
	Volume	Capacity	No. of Trips
Manila	2,703	5,023.0	0.54
Quezon	3,078	4,812.0	0.64
Makati	1,005	2,155.6	0.47
Pasay	1,259	675.1	1.87
Muntinlupa	1,000	465.6	2.15
Mandaluyong	696	1,105.6	0.63
Parañaque	603	980.6	0.61
Las Piñas	870	300.0	2.90
Marikina	372	93.0	4.00
Pasig	903	1,755.4	0.51
Pateros	63	83.0	0.76
San Juan	42	1,352.4	0.03
Taguig	359	306.0	1.17
Caloocan	515	1,346.0	0.38
Malabon	328	288.0	1.14
Navotas	150	209.0	0.72
Valenzuela	548	249.0	2.20
TOTAL	14,494	21,199.3	0.68

 Table 9.14
 Average Required Number of Trips

Collection Capacity Per Trip of the MMDA, LGUs and Private Contractors

	m ³	Percentage
MMDA	715.6	3.2
LGUs	1635.8	7.5
Private Contractors	19563.5	89.3

The collection capacity (m³) by city/municipality is presented in Table 9.15.

City/Municipality	Capacity (m ³)		Total
	MMDA or LGU	Private	
Manila	53.0	4970.0	5023.0
Quezon City	61.6	4750.4	4812.0
Makati	49.6	2106.0	2155.6
Pasay	36.0	639.1	675.1
Muntinlupa	30.6	435.0	465.6
Mandaluyong	80.0	1025.6	1105.6
Parañaque	102.0	878.6	980.6
Las Piñas	300.0	0	300.0
Marikina	93.0	0	93.0
Pasig	496.0	1259.4	1755.4
Pateros	83.0	0	83.0
San Juan	46.0	1306.4	1352.4
Taguig	36.0	270.0	306.0
Caloocan	30.0	1316.0	1346.0
Malabon	58.0	230.0	288.0
Navotas	81.0	128.0	209.0
Valenzuela	0	249.0	249.0
MMDA	715.6	0	715.6
TOTAL	2351.4	19563.5	21914.9

 Table 9.15
 Collection Capacity in Each City/Municipality

Condition of Vehicles

- Engine: 90.4 % of the engines of all 1,303 operational vehicles are in good condition
- Body: 76.4 % of the bodies of the same vehicles are in good condition

Model or Year of Manufacture

The inventory, which includes non-serviceable vehicles and those needing major repairs, totals 1,403 vehicles. Of the said number, the model or year of manufacture is as follows:

- 476 (33 %) not known
- 472 (33 %) within six years
- 262 (20 %) six to 10 years
- 139 (10 %) 10 to 20 years
- 54 (4 %) more than 20 years

Maintenance

- . Only one LGU (Pasig) has maintenance capability
- . 14 LGUs have employed private companies capable of conducting major engine and body repair works

Type of Transfer

. Las Piñas Transfer Station (Collective Facility)

The Las Piñas Transfer Station serves the cities of Las Piñas, Muntinlupa, Pasay and Makati and the municipality of Parañaque.

. Individual Transfer Stations

Other LGUs use the following types of transfer:

- Type A (by stage): Pasig and Marikina

- Type B (by payloader): Manila, Malabon, Valenzuela, Parañaque, Pasay, and Caloocan

- Type C (by larger reloading vehicles): Caloocan and Malabon

Organization

14,623 people are employed in solid waste management. The LGUs account for 8,420 (or 57.6 %), while the private sector has 6,203 (or 42.4 %).

- . Collectors: Those deployed in Collection total 6,073 personnel, with 838 under the MMDA and the LGUs and 5,235 under the private companies.
- Street Sweepers: Those deployed by the LGUs and the MMDA in *Beautification* (including street sweeping and greening) total 5129.