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ANNEXES



INSTRUCTIONS AND GUIDELINES FOR PREPARING THE COUNTRY'S ANALYTICAL REPORT



1. 1. Report objectives

- Clarify and expand information required in the Solid Waste Evaluation database and supplement aspects that have not been covered in it.
- Interpret and provide an analysis of the solid waste management services situation, establish priorities, identify problems and make relevant recommendations to the country's objectives, and when applicable, to the sub-regional and regional objectives.
- Identify potential trends in public services and their relation to the country's environmental sustainability.

2. Characteristics of the document

- Maximum number of pages: 30 pages
- Single space

3. Content of the country's analytical report

- Executive Summary.
- Introduction.
- Background.

- Functional/organizational structure of solid waste management services.
- Situation of municipal solid waste management services.
- Strengths and critical aspects of solid waste management services.
- Relationship of solid waste management services to health, environment, economic and social development.
- Participative management in solid waste management.
- Future perspectives.

3.1 Content of each chapter

The text of the different chapters will include tables, graphs and other items to be included in the Country's Analytical Report.

3.2 Executive summary

Complete synthesis of the most predominant issues in each chapter, emphasizing the situation, trends and the sector's projection.

3.3 Introduction

- Locate the Solid Waste Evaluation in the country's context.
- Identify the evaluation process with the national participating entities.
- Locate municipal solid waste management services within national strategies.
- Political map of the country.

3.4 Background

- General characteristics of the country (physical, socioeconomic, health).
- Human development indicators (IDH), data UNDP.
- Brief review of the solid waste management services evolution in the last 10 years.
- Levels of solid waste management investment in comparison to other sectors of the economy pertinent to the country.

3.5 Functional/organizational structure of solid waste management services

- Locate solid waste management services within the country's institutional structure.
- Describe policies, legal and regulatory frame for solid waste management.
- Describe the solid waste management services organization modes: centralization, decentralization.
- Describe the governing, regulation, existing operations, financing, technological development, research and human resource training functions.
- Sector's financing. Collection systems.
- Service operation modes: private participation, mixed operation, third parties, concession by bid, others.

- Assign municipal resources to provide sweeping, collection, transportation and final disposal services.
- Analyze national and local plans and strategies for the development of solid waste management services.

3.6 Situation of providing municipal solid waste management services at a local level

- Analysis of the quality and coverage of collection, transportation and final disposal services in large, medium and small population centers.
- Cost and rates analysis for providing the service.
- Municipal development and its relationship to solid waste management.
- Administrative, economic and finance management modes of solid waste management services.
- Shared and participative management (municipality, community, NGO).
- Small cleaning and sanitation companies in collection, transportation and final disposal of wastes and their contractual relationship with the municipalities.
- Sweeping and cleaning routes, recycling and segregation micro companies.
- Important sectoral projects that are being carried out in the country.
- Contribution of funds.

3.7 Strengths and critical aspects of the sector

- Brief review of the analysis conclusions emphasizing weak points and solid waste management strengths.
- Factors (institutional, technical, financial and others) that limit or increase the effectiveness and efficiency of solid waste management.

- Relationship of solid waste management services to health, environment, economic and social development.
- Characterize the solid waste management services impact on health and the environment.
- Epidemiological studies carried out to measure the impact of inadequate solid waste management on health.
- Occupational health of collection and transportation formal and informal workers.
- Analyze the equity of the services: equity, efficiency, quality, effectiveness, sustainability of the economic and social development of the country.
- If possible, analyze the economic value of the sector in terms of labor force generation, sales of goods and services, development of the small industry, and recycling, among others.

3.8 Participative administration management in solid waste management

- Community participation: community mobilization and organization.
- Participation of NGOs and other community groups in solid waste management.
- Municipal support for community programs.
- Sanitary environmental education and communication.
- Hygiene and occupational safety programs for sector's officials.

- Informal workers in material segregation and recycling.
- Presence of children and mothers that live and work in the garbage.

3.9 Future perspectives

- Future investment and institutional reorganization needs.
- Reform and modernization needs to correct problems and increase the efficiency and effectiveness of solid waste management.
- Alternatives and suggestions to increase the effectiveness of solid waste management services.
- Arrangement of solid waste management.
- Regulation of services.
- Subsidy policies.
- Financial requirements for coverage and quality of services estimate for the next ten years.
- Recommendations to overcome the problems identified, with emphasis on medium size cities and disadvantaged urban areas.

. Bibliography

. Acronyms

. Work Team

Table 1-A. Solid waste sector entities at a national and local level in Latin American and Caribbean countries

Countries	National Organisms	State or province organisms	Municipalities	Private sector
Anguila	<ul style="list-style-type: none"> Ministry of Social Development – Department of Primary Health Care, Environmental Health Unit 	N.A.	N.A.	Contracting companies
Antigua and Barbuda	<ul style="list-style-type: none"> Ministry of Health – National Solid Waste Management National Authority, NSWMA (collection and disposal) – Health Central Board (sweeping and cleaning of rain water drainage) 	N.A.	N.A.	Private operators
Argentina	<ul style="list-style-type: none"> Environmental Commission Environmental Federal Board, COFEMA National Environmental and Sustainable Development Secretariat, SENADES, appointed to the Ministry of Health Federal Institute of Municipal Affairs 	Secretariats, sub secretariats and boards and other environmental organisms	Municipal agencies	Contracting companies
Barbados	<ul style="list-style-type: none"> Ministry of Health: Solid Waste Projects Unit –Sewage, Sanitation Services Authority, SSA National Conservation Commission, NCC Ministry of Labor Public and Transportation MPT Ministry of Physical Development and the Environment 	N.A.	N.A.	Private operators for the collection and transportation of institutional, commercial and industrial wastes
Belize	<ul style="list-style-type: none"> Solid Waste Management Authority Department of the Environment (DOE) Mayors' Association 	N.A.	Municipal Boards Municipalities	Private operators RECONDEV
Bolivia	<ul style="list-style-type: none"> Ministry of Services and Public Works (seat of the sector) Ministry of Sustainable Development Ministry of Health and Sports Ministry of Education 	Departmental prefectures carry out control functions in compliance with national regulations.	Urban sanitation municipal agencies Managing municipal entities (EG)	Private operators
Brazil	<ul style="list-style-type: none"> Ministry of Cities Ministry of the Environment Ministry of Health National Environmental Board, CONAMA (federal government representatives, state governments and community) 	Secretariats, sub secretariats and boards and other environmental organisms	Municipal agencies	Private operators
Chile	<ul style="list-style-type: none"> Ministry of the Interior Ministry of Health National Environmental Commission, CONAMA Ministry of Planning and Cooperation, MIDEPLAN Ministry of Housing and Urbanism, MINVU Ministry of the Treasury 	Management – Regional Board	Urban sanitation municipal agencies	Private operators
Colombia	<ul style="list-style-type: none"> Presidency of the Republic National Planning Department Ministry of Treasury and Public Credit Ministry of Economic Development Ministry of the Environment Ministry of Health and Social Protection 	N.A.	Municipal Board Municipal agencies	Private operators
Costa Rica	<ul style="list-style-type: none"> Ministry of Health Environmental National Technical Secretariat, SETENA Ministry of the Environment and Energy, MINAE General Comptroller of the Republic 	N.A.	Municipal agencies	Private operators
Cuba	<ul style="list-style-type: none"> Ministry of Public Health, MINSAP Ministry of Sciences, Technology and the Environment, CITMA Communal Services 	N.A.	Municipal agencies	Private operators
Dominica	<ul style="list-style-type: none"> Ministry of Environmental Health – Dominica Solid Waste Management Corporation (semi autonomous) 	N.A.	N.A.	Private operators
Dominican Republic	<ul style="list-style-type: none"> State Secretariat of the Environment and Natural Resources State Secretariat of Public Health and Social Welfare Dominican Municipal League (Central Government) 	N.A.	Sanitation City Councils, Department of Ornate and Transportation	

Countries	National Organisms	State or province organisms	Municipalities	Private sector
Ecuador	<ul style="list-style-type: none"> Ministry of Urban Development and Housing, MIDUVI Ministry of Public Health 	Provincial Offices of the Ministry of Public Health	Municipal agencies: Sanitation Departments or Units, Municipal Administrative Offices	Private operators and micro companies
El Salvador	<ul style="list-style-type: none"> Ministry of the Environment and Natural Resources, MARN Ministry of Public Health and Social Security, MSPAS 	N.A.	Municipal agencies	Sanitation and recycling micro companies
Grenada	<ul style="list-style-type: none"> Ministry of Environmental Health – Grenada Solid Waste Management Authority, GSWMA 	N.A.	N.A.	N.A.
Guatemala	<ul style="list-style-type: none"> Solid Waste National Board, CONADESCO (Ministries of the Environment and Natural Resources, Health, Municipal Promotion Institute, Regional School of Sanitation Engineering, Guatemala Institute of Tourism, Amatitlan Lake Basin Management Authority, National Association of Municipal Mayors) 	N.A.	Municipal agencies: Municipal Technical Unit	Sanitation and recycling micro companies
Guyana	<ul style="list-style-type: none"> Ministry of Health Environmental Protection Agency, EPA 	N.A.	Municipalities Neighborhood Democratic Boards, NDC	Private operators: OMAI, GUYSUICO, Banks/DIH Ltd, Rice Producers Association
Haiti	<ul style="list-style-type: none"> Ministry of the Environment Ministry of Public Health Ministry of Public Works Ministry of the Interior 	N.A.		
Honduras	<ul style="list-style-type: none"> Secretariat of Health Secretariat of Natural Resources Association of Municipalities of Honduras 	N.A.	Urban sanitation municipal agencies	
Cayman Islands	<ul style="list-style-type: none"> Ministry of Planning, Communication, Works and Technological Information (Department of Environmental Health) 	N.A.	N.A.	Private operators
British Virgin Islands	<ul style="list-style-type: none"> Ministry of Health and Welfare 	N.A.	N.A.	Private operators
Jamaica	<ul style="list-style-type: none"> Ministry of the Local Government, of Community Development and Sports, MLGCD&S Ministry of Health Ministry of Soil and the Environment National Authority for Solid Waste Management 	N.A.	Municipal agencies	Private operators
Mexico	<ul style="list-style-type: none"> Secretariat of the Environment, Natural Resources and Fishery, SEMARNAP Secretariat of Social Development, SEDESOL Secretariat of Commerce and Industrial Promotion, SECOFI Federal Attorney General's Office for the Protection of the Environment, PROFEPA Secretariat of Treasury and Commerce, SHCP National Works and Public Services Bank, BANOBRAS 	Governments of the states	Municipal and urban sanitation agencies	Private operators
Nicaragua	<ul style="list-style-type: none"> Ministry of Health (MINSa) Ministry of the Environment and Natural Resources (MARENA) Nicaragua Institute for Municipal Promotion (INI-FOM) 	N.A.	Municipal boards	
Panama	<ul style="list-style-type: none"> Ministry of Health National Environmental Authority Interoceanic Region Authority 	N.A.	Municipalities	Private operators

Countries	National Organisms	State or province organisms	Municipalities	Private sector
Paraguay	<ul style="list-style-type: none"> Secretariat of the Environment (SEAM) Ministry of Public Health and Social Welfare (SENASA) Technical Planning Secretariat 	Governments, Environmental Units	Municipalities	Private operators
Peru	<ul style="list-style-type: none"> Ministry of Health – General Office of Environmental Health, DIGESA Environmental National Board, CONAM National Institute of Environmental Protection for Health, INAPMAS Natural Resources National Institute, INRENA Ministry of Industries, MITINCI 	Regional governments should promote and preserve environmental health in the region	Provincial and district municipalities Lima Sanitation Services Municipal Supervision, SUMSEL	Private operators, Sanitation and Recycling Micro companies
Saint Lucia	<ul style="list-style-type: none"> Ministry of Health – Water and Sewage Central Authority, CWSA – Solid Waste Management Unit, SWMU 	N.A.	N.A.	Private operators
Saint Kitts and Nevis	<ul style="list-style-type: none"> Saint Kitts and Nevis Solid Waste Management Corporation, SCMC; Solid Waste Management Authority, SWMA 	N.A.	N.A.	Private operators
Saint Vincent and the Grenadines	<ul style="list-style-type: none"> Ministry of Health – Water and Sewage Central Authority, CWSA – Solid Waste Management Unit, SWMU 	N.A.	N.A.	Private operators
Suriname	<ul style="list-style-type: none"> Ministry of Public Work, MOW Ministry of Regional Development, MRO Ministry of Health, MVZ 	N.A.	N.A.	
Trinidad and Tobago	<ul style="list-style-type: none"> Ministry of Local Government, MOLG Ministry of Public Utilities and the Environment, MOPUE Tobago House Assembly, THA 	N.A.	Regional Corporations	Private operators
Uruguay	<ul style="list-style-type: none"> Ministry of Housing, Territorial Ordinance and the Environment, MVOTMA Ministry of Public Health Ministry of Transportation and Public Works Office of Planning and Budget, OPP 	N.A.	Municipal management	Private operators Uruguay Chambers of Industry, Uruguay Association of Plastic Industries, Non Alcoholic and Beer Beverages Manufacturers Center (Recycling)
Venezuela	<ul style="list-style-type: none"> National Assembly Ministry of Health and Social Development, MSDS Ministry of the Environment and Natural Resources, MARN FUNDACOMUN (Ministry of Infrastructure) Intergovernmental Decentralization Fund, FINDES 	Governments	<ul style="list-style-type: none"> Municipal Board Town hall 	Companies, foundations, civil associations

N.A. Not applicable.
Source: Solid Waste Evaluation.

**Table 2-A. Per capita municipal waste generation
in selected cities with more than one million inhabitants
in the Latin American and Caribbean Region**

City	Population inhabitants (thousands)	MSW Production (ton/day)	Per capita generation (kg/inhab./day)
A,M, Sao Paulo, Brazil	18,300	36,417	1,99
A,M, Buenos Aires, Argentina	12,544	14,551	1,16
A,M, Ciudad de Mexico, Mexico	18,45	21,6	1,17
A,M, Santiago, Chile	5,3	6,254	1,18
A,M, Lima, Peru	6,901	4,83	0,70
San Salvador, El Salvador	1,571	1,005	0,64
Bogota, Colombia	6,558	4,721	0,72
Belo Horizonte, Brazil	3,8	5,434	1,43
A,M, Guatemala, Guatemala	2,541	1,27	0,50
Havana, Cuba	2,186	1,639	0,75
Cali, Colombia	2,181	1,679	0,77
Brasilia, Brazil	2,051	2,734	0,75
Medellin, Colombia	1,909	1,546	0,81
Quito, Ecuador	1,841	1,325	0,72
Caracas, D.C., Venezuela	1,836	2,019	1,10
Guadalajara, Mexico	1,655	1,986	1,20
Montevideo, Uruguay	1,303	1,602	1,23
Cordoba, Argentina	1,283	1,655	1,29
A,M,Asuncion, Paraguay	1,208	1,123	0,93
Santa Cruz de la Sierra, Bolivia	1,113	601	0,54
Port-au-Prince, Haiti	1,1	484	0,44
Managua, Nicaragua	1,024	727	0,71

A.M. Metropolitan Area.

Source: Solid Waste Evaluation.

**Table 3-A. Municipal solid waste generation
per capita in selected cities with 200,000 to 1 million inhabitants
in the Latin American and Caribbean Region**

City	Population inhabitants (thousands)	MSW Production (ton/day)	Per capita generation (kg/inhab./day)
Lara, Venezuela	895	465	0.52
Cartagena, Colombia	854	742	0.87
Tegucigalpa, Honduras	819	548	0.67
La Paz, Bolivia	790	418	0.53
Cochabamba, Bolivia	717	430	0.60
Ciudad de Panama, Panama	708	665	0.94
Ribeirao Preto, Brazil	505	449	0.89
Canelones, Uruguay	539	485	0.90
Asunción, Paraguay	513	672	1.31
San Pedro de Sula, Honduras	483	333	0.69
Carrefour, Haiti	416	183	0.44
Cuernavaca, Mexico	342	242	0.71
San Jose, Costa Rica	326	329	1.01
Antofagasta, Chile	318	254	0.80
Maua, Brazil	363	232	0.64
Camaguey, Cuba	308	154	0.50
San Miguelito, Panama	293	178	0.61
Greater Paramaribo, Suriname	287	287	1.00
Bahia Blanca, Argentina	285	250	0.88
Calleria, Ucayali, Peru	246	172	0.70
Ciudad del Este, Paraguay	223	231	1.04
Sto Domingo de los Colorados, Ecuador	200	130	0.65

Source: Solid Waste Evaluation.

**Table 4-A. Municipal solid waste generation per capita in selected cities
between 200,000 to 50,000 inhabitants
in the Latin American and Caribbean Region**

City	Population inhabitants (thousands)	MSW Production (ton/day)	Per capita generation (kg/inhab./day)
Sucre, Bolivia	193	77	0.40
Colon, Panama	174	163	0.94
San Miguel, El Salvador	172	141	0.82
Luque, Paraguay	170	183	1.08
Santa Ana, El Salvador	168	105	0.63
Pinar del Rio, Cuba	162	64	0.40
Portmore, Jamaica	160	142	0.89
La Serena, Chile	160	152	0.95
Zulia, Venezuela	144	216	1.50
Gonaives, Haiti	138	20	0.15
Maldonado, Uruguay	137	123	0.90
Goicoechea, Costa Rica	123	86	0.70
Angra dos Reis, Brazil	119	89	0.75
Loja, Ecuador	117	70	0.60
Chinandega, Nicaragua	115	69	0.60
Diego Martin, Trinidad and Tobago	105	73	0.70
Venado Tuerto, Argentina	95	50	0.53
Tacna, Peru	95	54	0.57
Choluteca, Honduras	76	35	0.47
Salina Cruz, Mexico	76	42	0.56
Villa del Rosario, Colombia	59	38	0.65
Belice City	51	78	1.54

Source: Solid Waste Evaluation.

**Table 5-A. Municipal solid waste generation per capita in selected cities
with less than 50,000 inhabitants
in the Latin American and Caribbean Region**

City	Population inhabitants (thousands)	MSW Production (ton/day)	Per capita generation (kg/inhab./day)
Pestel, Haiti	49	17	0.35
City of Port-of-Spain, Trinidad and Tobago	49	63	1.30
Hernandarias, Paraguay	47	33	0.72
Moroleon, Mexico	47	24	0.53
Danli, Honduras	47	57	1.22
Rio Negro, Uruguay	45	31	0.70
Alta Gracia, Argentina	41	18	0.45
La Union, Chile	39	15	0.40
Mariel, Cuba	31	13	0.43
Villazon, Bolivia	28	11	0.42
San Lorenzo, Honduras	23	9	0.40
Acajutla, El Salvador	23	11	0.49
Guaranda, Ecuador	20	9	0.45
Somoto, Nicaragua	16	6	0.39
Caetanos, Brazil	13	5	0.38
San Carlos, Panama	15	6	0.44
Delta Amacuro, Pedernales, Venezuela	5	2	0.40

Source: Solid Waste Evaluation.

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