

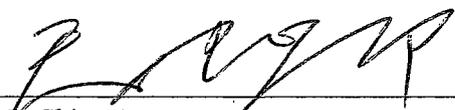
**MINUTES OF MEETINGS
BETWEEN
THE JAPANESE PREPARATORY STUDY TEAM AND
THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF
THE DOMINICAN REPUBLIC
ON THE JAPANESE TECHNICAL COOPERATION PROJECT FOR APPROPRIATE
WASTE MANAGEMENT IN SANTO DOMINGO DE GUZMAN, NATIONAL
DISTRICT,
DOMINICAN REPUBLIC**

The Japanese Preparatory Study Team (hereinafter referred to as “the Team”), organized by the Japan International Cooperation Agency (hereinafter referred to as “JICA”) and headed by Mr. Shiro Amano, visited the Dominican Republic from September 13 to October 2, 2008, for the purpose of formulating the technical cooperation project regarding Appropriate Waste Management in Santo Domingo de Guzman, National District, Dominican Republic (hereinafter referred to as “the Project”).

The Team exchanged views and had a series of discussions with the authorities concerned of the Government of Dominican Republic. As a result of the discussions, both the Dominican Republic side and the Team agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

These texts were done in duplicate in Spanish and English languages, each text being equally authentic. In case of any divergence of interpretation, the English text shall prevail.

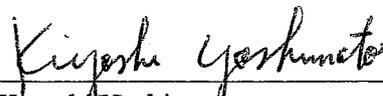
Santo Domingo, October 1, 2008



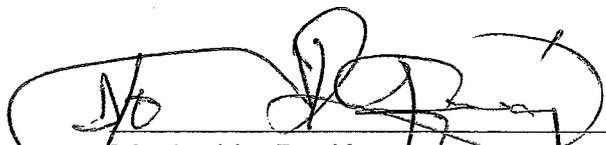
Mr. Shiro Amano
Leader
Japanese Preparatory Study Team
Japan International Cooperation Agency



Mr. Esmérito A. Salcedo Gavilán
Mayor, Ayuntamiento del Distrito
Nacional
Santo Domingo de Guzman,
Dominican Republic



Mr. Kiyoshi Yoshimoto
Resident Representative
JICA Dominican Republic Office
Japan International Cooperation Agency



Ms. América Bastidas
Subsecretary of State for International
Cooperation
Secretariat of State of Economy, Planning
and Development
Dominican Republic

THE ATTACHED DOCUMENT

I. RECORD OF DISCUSSIONS

The draft of the Record of Discussions (hereinafter referred to as "the R/D"), which stipulates the framework of the Project, will be finalized and signed by the representatives of the Government of the Dominican Republic and JICA Dominican Republic Office after notification of approval of implementation of the Project by JICA Headquarters. Both sides agreed on the draft R/D as shown in APPENDIX I.

II. PROJECT DESIGN MATRIX

Both the Dominican Republic side and the Team had a series of discussions and agreed on the tentative Project Design Matrix (hereinafter referred to as "the PDM") shown in APPENDIX II. The PDM is to be flexibly amended in view of the process and achievements of the Project based upon agreement between the Dominican Republic side and JICA.

III. PLAN OF OPERATION

The tentative Plan of Operation (hereinafter referred to as "the PO") for the whole project period is shown in APPENDIX III. The activities of the Project are subject to change within the scope of the R/D with mutual consultation when necessity arises in the course of implementation of the Project.

IV. BUDGET FOR THE PROJECT

Both the Dominican Republic side and the Team agreed that the local costs of the Project, related to the Dominican Republic side, including counterpart staff salary, transportation, equipment, office facilities, will be borne by the Dominican Republic side. JICA will afford the cost such as workshops/seminars except travel cost, accommodation fee and per-diem for domestic participants within the allocation of the budget for the project.

V. COUNTERPART PERSONNEL OF THE DOMINICAN REPUBLIC

Both the Dominican Republic side and the Team agreed that the Dominican Republic side will assign the necessary counterpart personnel as shown in APPENDIX IV by the beginning of the Project.

VI. TERMS OF COOPERATION

The duration of the technical cooperation for the Project will be three (3) years.

VII. TECHNICAL COOPERATION

JICA explained the basic concept of the JICA's Technical Cooperation project to the

Dominican Republic side, and the differences of approaches and activities between the Development Study and the Technical Cooperation Project. The Dominican Republic side understood them. The Dominican Republic side and the Team agreed that the Dominican Republic side will take ownership in executing the Project based on PDM.

VIII. COOPERATION AND COORDINATION WITH OTHER MUNICIPALITIES AND RELATED ORGANIZATIONS

Both the Dominican Republic side and the Team agreed to cooperate and coordinate with members of Mancomunidad del Gran Santo Domingo, other municipalities and related organizations in the execution of the Project. It is also agreed by the Dominican Republic side that experience and knowledge obtained through the Project be disseminated to other municipalities and related organizations through workshops, seminars, etc.

IX. SECUREMENT OF SITE(S) FOR THE PILOT PROJECT OF COMPOSTING

Both the Dominican Republic side and the Team agreed that the Dominican Republic side will secure the site(s) for implementing the pilot project of composting green and market wastes.

X. TECHNICAL COMMITTEE

Both the Dominican Republic side and the Team agreed that a technical committee will be organized for the effective implementation of the Project. The Technical Committee will be held quarterly. The functions and members of the Technical Committee are as follows:

(i) Functions

- To share the outputs regarding technical matters derived from the Project
- To provide suggestions and guidance for the achievement of the Project purpose

(ii) Chairperson

Project Manager

(iii) Tentative Members

- Representative(s) of Mancomunidad del Gran Santo Domingo
- Representative(s) of Secretariat of State of Environment and Natural Resources
- Representative(s) of Secretariat of State of Public Health and Social Care
- Representative(s) of General Directorate of Urban Cleansing and Equipments
- Representative(s) of General Directorate of Human Development
- Representative(s) of Environmental Information Center
- Representative(s) of Recycling Promotion Center
- Representative(s) of Pan American Health Organization
- Japanese Experts

Others agreed by the Chairperson

- APPENDIX I DRAFT RECORD OF DISCUSSIONS (R/D)**
- APPENDIX II TENTATIVE PROJECT DESIGN MATRIX (PDM)**
- APPENDIX III TENTATIVE PLAN OF OPERATION (PO)**
- APPENDIX IV TENTATIVE LIST OF COUNTERPART PERSONNEL**



(Draft)

**RECORD OF DISCUSSIONS BETWEEN
JAPAN INTERNATIONAL COOPERATION AGENCY AND
THE AUTHORITIES CONCERNED OF THE DOMINICAN REPUBLIC
ON THE JAPANESE TECHNICAL COOPERATION PROJECT FOR
APPROPRIATE WASTE MANAGEMENT IN SANTO DOMINGO DE
GUZMAN, NATIONAL DISTRICT, DOMINICAN REPUBLIC**

With regard to the Minutes of Meetings signed between the Japanese Preparatory Study Team and the Ayuntamiento del Distrito Nacional on October 1, 2008, Japan International Cooperation Agency (hereinafter referred to as "JICA") had a series of discussions, through the Resident Representative of JICA, with authorities concerned in the Dominican Republic on desirable measures to be taken by JICA and Ayuntamiento del Distrito Nacional for successful implementation of the Project for the Appropriate Waste Management in Santo Domingo de Guzman, National District, Dominican Republic.

As a result of discussions, and in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of the Dominican Republic signed in Santo Domingo on 29 September, 2005 (hereinafter referred to as "the Agreement"), JICA and the Dominican Republic Authorities concerned agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

This Record of Discussions was prepared in duplicate in Spanish and English languages, each version being equally authentic. In case of any divergence of interpretation, the English version shall prevail.

Santo Domingo, MM DD, 2008

Mr. Tadashi Ikeshiro
Resident Representative
JICA Dominican Republic Office
Japan International Cooperation
Agency

Mr. Esmérito A. Salcedo Gavilán
Mayor, Ayuntamiento del Distrito
Nacional
Santo Domingo de Guzman,
Dominican Republic

Ms. América Bastidas
Subsecretary of State for International
Cooperation
Secretariat of State of Economy,
Planning and Development
Dominican Republic

ATTACHED DOCUMENT

I. COOPERATION BETWEEN JICA AND THE GOVERNMENT OF THE DOMINICAN REPUBLIC

1. The Government of the Dominican Republic will implement the Project for Appropriate Waste Management in Santo Domingo de Guzman, National District, Dominican Republic (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan which is given in ANNEX I

II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan, and the provisions of Article III of the Agreement, JICA will take, at its own expense, the following measures according to the normal procedures under the Technical Cooperation Scheme of Japan.

1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts and/or other countries' experts as listed in ANNEX II. The provision of Article V of the Agreement will be applied to the experts.

2. PROVISION OF MACHINERY, EQUIPMENT AND OTHER MATERIALS

JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in ANNEX III. The provision of Article VII of the Agreement will be applied to the Equipment.

3. TRAINING OF DOMINICAN PERSONNEL IN JAPAN AND/OR IN OTHER COUNTRIES

JICA will receive the Dominican personnel connected with the Project for technical training in Japan and/or in other countries.

III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE DOMINICAN REPUBLIC

1. The Government of the Dominican Republic will take the necessary measures to

ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.

2. The Government of the Dominican Republic will ensure that the technologies and knowledge acquired by the Dominican nationals as a result of the Japanese technical cooperation will contribute to the economic and social development of the Dominican Republic.
3. In accordance with the provisions of Article V of the Agreement, the Government of the Dominican Republic will grant in the Dominican Republic privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their families.
4. In accordance with the provisions of Article VII of the Agreement, the Government of the Dominican Republic will take the measures necessary to receive and use the Equipment provided by JICA under II-2 above and equipment and materials carried in by the Japanese experts referred to in II-1 above.
5. In accordance with the provision of Article V.1.(2)(b) of the Agreement, the Government of the Dominican Republic will provide the services of Dominican counterpart personnel and administrative personnel as listed in ANNEX IV
6. In accordance with the provision of Article V.1.(2)(a) of the Agreement, the Government of the Dominican Republic will provide the buildings and facilities as listed in ANNEX V
7. In accordance with the laws and regulations in force in the Dominican Republic, the Government of the Dominican Republic will take necessary measures to supply or replace at its own expense machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project, other than the Equipment provided by JICA under II-2 above.
8. In accordance with the laws and regulations in force in the Dominican Republic, the Government of the Dominican Republic will take necessary measures to meet the operational expenses necessary for the implementation of the Project.

IV. ADMINISTRATION OF THE PROJECT

1. The mayor of Santo Domingo de Guzman, National District, as the Project Director, will bear overall responsibility for the administration and implementation of the Project.
2. The Director of General Directorate of Urban Cleansing and Equipments, as the

Project Manager, will be responsible for the managerial matters and supervise the Project.

3. The Japanese Chief Advisor will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese experts will give necessary technical guidance and advice to the counterpart personnel of the Dominican Republic on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established, whose functions and composition are described in ANNEX VI.

V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA and the Dominican authorities concerned, at the middle and during the last six months of the cooperation term in order to examine the level of achievement.

VI. CLAIMS AGAINST JAPANESE EXPERTS

In accordance with the provision of Article VI of the Agreement, the Government of the Dominican Republic undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in the Dominican Republic except for those arising from the willful misconduct or gross negligence of the Japanese experts.

VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Government of the Dominican Republic on any major issues arising from, or in connection with, this Attached Document.

VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND TO SUPPORT FOR THE PROJET

For the purpose of promoting support for the Project, the Government of the Dominican Republic will take appropriate measures to make the Project widely known

to the people of the Dominican Republic.

IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be three years from the date upon first dispatch of the Japanese expert(s) in 2009.

- | | |
|-----------|---|
| ANNEX I | MASTER PLAN OF THE PROJECT |
| ANNEX II | LIST OF EXPERTS |
| ANNEX III | LIST OF MACHINERY, EQUIPMENT AND OTHER MATERIALS |
| ANNEX IV | LIST OF THE DOMINICAN REPUBLIC COUNTERPART
PERSONAL AND ADMINISTRATION PERSONNEL |
| ANNEX V | LIST OF LAND, BUILDING AND FACILITIES |
| ANNEX VI | THE JOINT COORDINATING COMMITTEE |

ANNEX I MASTER PLAN OF THE PROJECT

1. Overall Goal

Targets of the Integrated Solid Waste Management (Integrated SWM) Plan (revised M/P) are substantially achieved by 2015

2. Project Purpose

Integrated SWM in Santo Domingo de Guzman, National District, is enhanced

3. Outputs

- (1) Capacity of ADN on Integrated SWM planning is strengthened
- (2) Solid waste collection system is consolidated through improvement on vehicle maintenance and public awareness
- (3) 3Rs (Reduce, Reuse and Recycle) approach is introduced to divert waste from final disposal site(s)

4. Activities

- (1) Capacity of ADN on Integrated SWM planning is strengthened
 - 1.1 Review the current status of Integrated SWM and identify issues to be addressed
 - 1.2 Review and analyze the implementation status of the Integrated SWM Plan (M/P)
 - 1.3 Revise/develop targets and action programs of the Integrated SWM Plan towards 2011 and 2015
 - 1.4 Prepare training materials on SWM planning to support other municipalities
 - 1.5 Conduct training and workshops on SWM planning to support other municipalities using the above mentioned materials

 - (2) Solid waste collection system is consolidated through improvement on vehicle maintenance and public awareness
 - 2.1.1 Study current situation of the maintenance operation of ADN collection vehicles
 - 2.1.2 Develop an improvement plan of vehicle maintenance system
 - 2.1.3 Develop a procedure on the vehicle maintenance
 - 2.1.4 Implement the improvement plan
 - 2.1.5 Monitor the implementation and feedback to the maintenance procedure

 - 2.2.1 Study the current situation of waste discharge practices
 - 2.2.2 Develop a plan for improving waste discharge practices
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- 2.2.3 Develop materials for public awareness on waste discharge
- 2.2.4 Implement the plan using the above mentioned materials
- 2.2.5 Monitor the implementation and feedback to the plan

(3) 3Rs (Reduce, Reuse and Recycle) approach is introduced to divert waste from final disposal site(s)

3.1.1 Review the current situation of recycling activities on papers, glass, metal, plastic and organic waste

3.1.2 Study the feasibility of recycling of valuable materials

3.2.1 Design a program for 3Rs introduction

3.2.2 Develop materials for public awareness and promotion of 3Rs

3.2.3 Implement the program for 3Rs introduction

3.2.4 Monitor the implementation and feedback to the program

3.3.1 Develop a pilot project plan to expand current paper recycling activities

3.3.2 Implement the pilot project for paper recycling

3.3.3 Review the pilot project and develop a plan for expansion of paper recycling

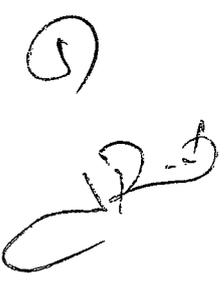
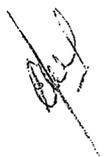
3.4.1 Develop a pilot project plan for composting

3.4.2 Implement a pilot project for composting

3.4.3 Review the pilot project and develop a plan for expansion of compost operation

ANNEX II LIST OF EXPERTS

1. Chief Advisor / Solid Waste Management
2. Solid Waste Education and Awareness Raising
3. Vehicle Maintenance Management
4. Waste Minimization / Promotion of 3Rs



ANNEX III LIST OF MACHINERY, EQUIPMENT AND OTHER MATERIALS

1. Cutting machinery for green and market wastes
2. Vehicle(s)
3. Other machinery and equipment necessary for the effective implementation of the Project

The above mentioned equipment is limited to those necessary for the technical cooperation activities by the JICA experts. The detailed contents, specification and quantity of the above mentioned equipment will be decided within the budget allocated for the Project.

ANNEX IV

LIST OF THE DOMINICAN REPUBLIC COUNTERPART PERSONAL AND
ADMINISTRATION PERSONNEL

1. Solid Waste Management

- (1) Director, General Directorate of Urban Cleansing and Equipments
- (2) Head, Department of Programming and Control
- (3) Head, Department of Administration
- (4) Technical Assistants (2), Urban Cleansing Department

2. Solid Waste Education and Awareness Raising

- (1) Director, General Directorate of Human Development
- (2) Head, Department of Public Education
- (3) Coordinator, Environmental Information Center
- (4) Head, Department of Environmental Management
- (5) Technical Assistants (2), Urban Cleansing Department

3. Vehicle Maintenance Management

- (1) Head, Department of Operations
- (2) Head, Department of Maintenance
- (3) Staff in charge, Operational Unit for Compactor Trucks
- (4) Technical Assistants (2), Urban Cleansing Department

4. Waste Minimization / Promotion of 3Rs

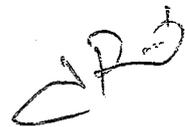
- (1) Head, Recycling Promotion Center
- (2) Technical Assistants (2), Recycling Promotion Center
- (3) Technical Assistants (2), Environmental Information Center

5. Administrative and Supporting Personnel

- (1) Drivers
- (2) Workers
- (3) Other supporting staffs

ANNEX V LIST OF LAND, BUILDING AND FACILITIES

1. Building and facilities necessary for the implementation of the Project.
2. Offices and other necessary facilities for experts
3. Facilities and services such as electricity, water supply, telephone, internet-line and furniture necessary for the Project activities
4. Other facilities mutually agreed upon as necessary



ANNEX VI THE JOINT COORDINATING COMMITTEE

1. Functions

The Joint Coordinating Committee will meet at least once a year or whenever the necessity arises and will do the following works:

- (1) To formulate the annual operational work plan of the Project based on the Plan of Operation within the framework of the Record of Discussions.
- (2) To review the overall progress and achievements of the Project
- (3) To examine major issues arising from or in connection with the Project
- (4) To work out the modification of activities depending on the necessity

2. Chairperson

Project Director

3. Members

Dominican Republic Side:

- (1) Project Manager
- (2) Representative(s) of Mancomunidad del Gran Santo Domingo
- (3) Representative of Secretariat of State of Environment and Natural Resources
- (4) Representative of Secretariat of State of Economy, Planning and Development

Japanese side:

- (1) JICA expert(s) of the Project
- (2) Representative of JICA Dominican Republic Office
- (3) Others agreed by the Chairperson

Observers:

- (1) Official of Embassy of Japan

TENTATIVE PROJECT DESIGN MATRIX (PDM)

Project Design Matrix (PDM)

Project Name: Project for Appropriate Waste Management in Santo Domingo de Guzman, National District

Duration of the Project: 3 years

Target Group: Ayuntamiento del Distrito Nacional(ADN)

ver.0

Target Area: Santo Domingo de Guzman, National District

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <p>Targets of the Integrated Solid Waste Management(Integrated SWM) Plan (revised M/P) are substantially achieved by 2015</p>	<p>Collection rate target(2015) on revised M/P Waste Minimization target(2015) on revised M/P Financial soundness target(2015) on revised M/P</p>	<p>Revised M/P Report and data by ADN</p>	
<p>Project Purpose</p> <p>Integrated SWM in Santo Domingo de Guzman, National District, is enhanced</p>	<p>1. Collection rate target on revised M/P 2. Waste Minimization target on revised M/P 3. Number of complaints received at the ADN call center 4. Satisfaction rate for collection service</p>	<p>Revised M/P Report and data by ADN Complaints record Report on survey for satisfaction rate</p>	<p>Sanitary landfill operation is introduced and continued at final disposal site</p>
<p>Outputs</p> <p>1. Capacity of ADN on Integrated SWM planning is strengthened</p>	<p>1.1 Revised M/P is drafted. 1.2 Training materials for SWM planning are prepared. 1.3 At least two training workshops for other municipalities are conducted by ADN.</p>	<p>1.1 Revised M/P 1.2 Training materials 1.3 Training workshop reports</p>	<p>Natural disasters do not affect the progress of the project</p>
<p>2. Solid waste collection system is consolidated through improvement on vehicle maintenance and public awareness</p>	<p>2.1 Information on vehicle maintenance is systematized 2.2 Number of records regarding negligent waste discharge is reduced 3.1 Amount of used-paper recycling by ADN activities is increased</p>	<p>2.1 Maintenance reports 2.2 Inspectors reports 3.1 Recycling Promotion Center reports</p>	<p>The government of Dominican Republic maintains or improve the current national policy principles regarding the waste management</p>
<p>3. 3Rs (Reduce, Reuse and Recycle) approach is introduced to divert waste from final disposal site(s)</p>	<p>3.2 Amount of organic waste used for compost is increased 3.3 Feasibility for other valuable resources is recognized 3.4 Number of communities (e.g. Juntas de vecinos) where 3Rs promotion programs are introduced</p>	<p>3.2 Recycling Promotion Center reports 3.3 Survey reports 3.4 Recycling Promotion Center reports</p>	<p>Final disposal site continues receiving waste from Santo Domingo de Guzman, National District, during the project</p>

Activities of the Project	Inputs	Important Assumptions
<p>1. Capacity of ADN on Integrated SWM planning is strengthened</p> <p>1.1 Review the current status of Integrated SWM and identify issues to be addressed</p> <p>1.2 Review and analyze the implementation status of the Integrated SWM Plan (M/P)</p> <p>1.3 Revise/develop targets and action programs of the Integrated SWM Plan towards 2011 and 2015</p> <p>1.4 Prepare training materials on SWM planning to support other municipalities</p> <p>1.5 Conduct training and workshops on SWM planning to support other municipalities using the above mentioned materials</p> <p>2. Solid waste collection system is consolidated through improvement of vehicle maintenance and public awareness</p> <p>2.1.1 Study current situation of the maintenance operation of ADN collection vehicles</p> <p>2.1.2 Develop an improvement plan of vehicle maintenance system</p> <p>2.1.3 Develop a procedure on the vehicle maintenance</p> <p>2.1.4 Implement the improvement plan</p> <p>2.1.5 Monitor the implementation and feedback to the maintenance procedure</p> <p>2.2.1 Study the current situation of waste discharge practices</p> <p>2.2.2 Develop a plan for improving waste discharge practices</p> <p>2.2.3 Develop materials for public awareness on waste discharge</p> <p>2.2.4 Implement the plan using the above mentioned materials</p> <p>2.2.5 Monitor the implementation and feedback to the plan</p> <p>3. 3Rs (Reduce, Reuse and Recycle) approach is introduced to divert waste from final disposal site(s)</p> <p>3.1.1 Review the current situation of recycling activities on papers, glass, metal, plastic and organic waste</p> <p>3.1.2 Study the feasibility of recycling of valuable materials</p> <p>3.2.1 Design a program for 3Rs introduction</p> <p>3.2.2 Develop materials for public awareness and promotion of 3Rs</p> <p>3.2.3 Implement the program for 3Rs introduction</p> <p>3.2.4 Monitor the implementation and feedback to the program</p> <p>3.3.1 Develop a pilot project plan to expand current paper recycling activities</p> <p>3.3.2 Implement the pilot project for paper recycling</p> <p>3.3.3 Review the pilot project and develop a plan for expansion of paper recycling</p> <p>3.4.1 Develop a pilot project plan for composting</p> <p>3.4.2 Implement a pilot project for composting</p> <p>3.4.3 Review the pilot project and develop a plan for expansion of compost operation</p>	<p>Japan side:</p> <p>(1) Experts</p> <p>(2) Training</p> <p>(3) Local costs</p> <p>(4) Machinery, equipment and materials</p> <p>Dominican Republic side:</p> <p>(1) Counterpart personnel including administrator</p> <p>(2) Office space and meeting rooms</p> <p>(3) Transportation of experts</p> <p>(4) Local costs</p> <p>(5) Site (s) for composting operation</p>	<p>Private contractors continue providing collection services</p> <p>Counterpart personnel remain in their positions during the project</p> <p>Necessary budget for the counterpart is secured during the project</p> <p>Precondition</p>

(Handwritten signatures and initials)

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APPENDIX IV TENTATIVE LIST OF COUNTERPART PERSONNEL

1. Solid Waste Management

- (1) José Miguel Martínez Guridy, Director, General Directorate of Urban Cleansing and Equipments
- (2) Hugo Pérez Sarraff, Head, Department of Programming and Control
- (3) Rudilerci Castillo, Head, Department of Administration
- (4) Manuel Ramírez, Technical Assistant, Urban Cleansing Department
- (5) Francisco Martínez, Technical Assistant, Urban Cleansing Department

2. Solid Waste Education and awareness raising

- (1) Juan José Guzmán, Director, General Directorate of Human Development
- (2) Luis Taveras, Head, Department of Public Education
- (3) Mariana Szabo, Coordinator, Environmental Information Center
- (4) Anyelina Aquino, Head, Department of Environmental Management
- (5) Marcel Florenzan, Technical Assistant, Urban Cleansing Department
- (6) Leomaris Henríquez, Technical Assistant, Urban Cleansing Department

3. Vehicle Maintenance Management

- (1) Oscar García Arias, Head, Department of Operations
- (2) Luis Checo, Head, Department of Maintenance
- (3) Manuel Roa, Staff in charge, Operational Unit for Compactor Trucks
- (4) David Rodríguez, Technical Assistant, Urban Cleansing Department

4. Waste Minimization/Promotion of 3Rs

- (1) Miguel Germosen, Head, Recycling Promotion Center
- (2) Heisor Arias, Technical Assistant, Recycling Promotion Center
- (3) Pablo Mejía, Technical Assistant, Recycling Promotion Center
- (4) Everyn Guerrero, Technical Assistant, Environmental Information Center
- (5) Sarah Mercado, Technical Assistant, Environmental Information Center

MINUTA DE REUNIONES
ENTRE
EL EQUIPO DE ESTUDIO PREPARATORIO DE
LA AGENCIA DE COOPERACIÓN INTERNACIONAL DEL JAPÓN Y
LAS AUTORIDADES CONCERNIENTES DE LA REPÚBLICA DOMINICANA
SOBRE LA COOPERACIÓN TÉCNICA PARA
EL PROYECTO DE SEGUIMIENTO AL MANEJO ADECUADO DE LOS
RESIDUOS SÓLIDOS EN SANTO DOMINGO DE GUZMÁN,
DISTRITO NACIONAL, REPÚBLICA DOMINICANA

El Equipo de Estudio Preparatorio (en adelante denominado como "el Equipo") organizado por la Agencia de Cooperación Internacional del Japón (en adelante denominada como "JICA") dirigido por el señor Shiro Amano, fue enviado a la República Dominicana desde el 13 de septiembre al 2 de octubre de 2008, con el propósito de formular el proyecto de cooperación técnica para el Seguimiento al Manejo Adecuado de los Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, República Dominicana (en adelante denominado como "el Proyecto").

Durante su estadía, el Equipo intercambió opiniones y llevó a cabo una serie de discusiones sobre el Proyecto con las autoridades concernientes del Gobierno Dominicano. Como resultado de las discusiones ambas partes llegaron a un acuerdo común sobre los asuntos referidos en los documentos adjuntos, cuyo contenido será recomendado por ambas partes a sus respectivos gobiernos.

Esta Minuta de Reuniones ha sido preparada en los idiomas español e inglés. Cada documento es igualmente auténtico. En caso de surgir cualquier divergencia en su interpretación, prevalecerá el texto en inglés.

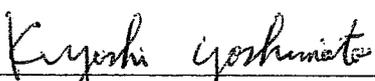
Santo Domingo, 1ro. de octubre de 2008



Sr. Shiro Amano
Líder,
Equipo de Estudio Preparatorio
Agencia de Cooperación Internacional del
Japón



Sr. Esmérito A. Salcedo Gavilán
Síndico,
Ayuntamiento del Distrito Nacional,
Santo Domingo de Guzmán,
República Dominicana



Mr. Kiyoshi Yoshimoto
Representante Residente
Oficina de la JICA en la República
Dominicana
Agencia de Cooperación Internacional del
Japón



Sr. América Bastidas
Subsecretaria de Estado
Encargada de la Cooperación Internacional
Secretaría de Estado de
Economía, Planificación y Desarrollo,
SEEPyD,
República Dominicana

DOCUMENTO ADJUNTO

I. MINUTA DE DISCUSIONES

El borrador del Registro de Discusiones (en adelante denominado como "R/D"), que estipula el esquema del Proyecto, será concluido y firmado por los representantes del Gobierno de la República Dominicana y de la Oficina Local de JICA en la República Dominicana luego de que se notifique la aprobación de la implementación del Proyecto por parte de la sede central de JICA. Ambas partes llegaron a un acuerdo en común sobre el borrador de R/D, tal como se muestra en el APÉNDICE I

II. MATRIZ DE DISEÑO DE PROYECTO

La Parte Dominicana y el Equipo llevaron a cabo una serie de discusiones y llegaron a un acuerdo común sobre la Matriz de Diseño de Proyecto (en adelante denominada como "PDM") tentativa, según se muestra en el ANEXO II. La PDM tendrá la flexibilidad de ser ajustada sobre la marcha del proceso y de la ejecución del Proyecto bajo el consentimiento de la Parte Dominicana y de JICA.

III. PLAN DE OPERACIÓN

El Plan de Operación (en adelante denominado como "PO") tentativo para el período completo del Proyecto se muestra en el ANEXO III. Las actividades del Proyecto están sujetas a cambios dentro del alcance de R/D sobre la base de consultas mutuas cuando surja la necesidad en el curso de la implementación del Proyecto.

IV. PRESUPUESTO DEL PROYECTO

La Parte Dominicana y el Equipo convinieron que los costos locales del Proyecto concernientes a la Parte Dominicana, incluyendo el salario del personal contraparte, la transportación, los equipos y las facilidades de oficina, serán cubiertos por la Parte Dominicana. JICA cubrirá los costos relativos a talleres/seminarios dentro del marco de la asignación del presupuesto del Proyecto, con excepción de los costos de transporte, hospedaje y viáticos de los participantes locales de las actividades antes mencionadas.

V. PERSONAL CONTRAPARTE DE LA REPÚBLICA DOMINICANA

La Parte Dominicana y el Equipo acordaron que la Parte Dominicana asignará el personal contraparte necesario, como se muestra en el Apéndice IV, al inicio del Proyecto.

VI. PERIODO DE LA COOPERACIÓN

La duración de la cooperación técnica para el Proyecto será de tres (3) años.

VII. COOPERACIÓN TÉCNICA

JICA explicó el concepto básico del Proyecto de Cooperación Técnica de JICA a la Parte Dominicana y las diferencias de alcances y actividades entre un Estudio de Desarrollo y un Proyecto de Cooperación Técnica. La Parte Dominicana comprendió dichas explicaciones. La Parte Dominicana y el Equipo acordaron que la Parte Dominicana asumirá la ejecución del Proyecto basada en la PDM.

VIII. COOPERACIÓN Y COORDINACIÓN CON OTROS MUNICIPIOS Y ORGANIZACIONES RELACIONADAS

La Parte Dominicana y el Equipo acordaron cooperar y coordinar con los miembros de la Mancomunidad del Gran Santo Domingo, otros municipios y con otras organizaciones relacionadas con la ejecución del Proyecto. La Parte Dominicana acordó además que la experiencia y los conocimientos adquiridos a través del Proyecto serán difundidos a otros municipios y organizaciones relacionadas mediante talleres y seminarios, entre otras actividades.

IX. ASEGURAMIENTO DEL (LOS) SITIO(S) PARA EL PROYECTO PILOTO DE ELABORACIÓN DE COMPOST

La Parte Dominicana y el Equipo estuvieron de acuerdo con que la Parte Dominicana asegurará el(los) sitio(s) para la implementación del proyecto piloto de elaboración de compost a partir de residuos provenientes de árboles y de mercados.

X. COMITÉ TÉCNICO

La Parte Dominicana y el Equipo coincidieron en que sea conformado un comité técnico para la implementación efectiva del Proyecto. El Comité Técnico se reunirá trimestralmente. Las funciones y la composición del Comité Técnico son las siguientes:

(i) Funciones:

- Compartir información técnica resultante de la ejecución del Proyecto;
- Proveer sugerencias y guía para alcanzar los objetivos del Proyecto.

(ii) Presidente del Comité:

- Director del Proyecto

(iii) Miembros Tentativos:

- Representante(s) de la Mancomunidad del Gran Santo Domingo
- Representante(s) de la Secretaría de Medio Ambiente y Recursos Naturales
- Representante(s) de la Secretaría de Salud Pública y Asistencia Social
- Representante(s) de la Dirección General de Aseo Urbano y Equipos
- Representante(s) de la Dirección General de Desarrollo Humano
- Representante(s) del Centro de Información Ambiental
- Representante(s) del Centro para la Promoción del Reciclaje
- Representante(s) de la Organización Panamericana de la Salud
- Expertos japoneses
- Otros acordados por el Presidente del Comité



- APÉNDICE I BORRADOR DEL REGISTRO DE DISCUSIONES (R/D)**
- APÉNDICE II MATRIZ DE DISEÑO DE PROYECTO (PDM) TENTATIVA**
- APÉNDICE III PLAN DE OPERACIÓN (PO) TENTATIVO**
- APÉNDICE IV LISTA TENTATIVA DEL PERSONAL CONTRAPARTE**



(BORRADOR)

**REGISTRO DE DISCUSIONES
ENTRE LA AGENCIA DE COOPERACIÓN INTERNACIONAL DEL JAPÓN Y
EL GOBIERNO DE LA REPÚBLICA DOMINICANA
SOBRE LA COOPERACIÓN TÉCNICA PARA
EL PROYECTO DE SEGUIMIENTO AL MANEJO ADECUADO DE LOS
RESIDUOS SÓLIDOS EN SANTO DOMINGO DE GUZMÁN,
DISTRITO NACIONAL, REPÚBLICA DOMINICANA**

De conformidad con la Minuta de Reuniones firmada por el Equipo de Estudio Preparatorio y el Ayuntamiento del Distrito Nacional, en fecha 1° de octubre de 2008, la Agencia de Cooperación Internacional del Japón (en adelante denominada como "JICA"), llevaron a cabo una serie de discusiones a través de su Representante Residente en la República Dominicana con las autoridades de la República Dominicana sobre medidas convenientes a ser tomadas por JICA y el Ayuntamiento del Distrito Nacional para la implementación exitosa del Proyecto de Seguimiento al Manejo Adecuado de los Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, República Dominicana.

Como resultado de las discusiones, y en concordancia con el Acuerdo sobre Cooperación Técnica entre el gobierno de la República Dominicana y el gobierno de Japón firmado en Santo Domingo el día 29 de septiembre de 2005 (en adelante denominado como "el Acuerdo"), JICA y las autoridades dominicanas acordaron recomendar a sus respectivos gobiernos los asuntos referidos en el documento anexo.

Este Registro de Discusiones ha sido preparado en los idiomas español e inglés. Cada documento es igualmente auténtico. En caso de surgir cualquier divergencia en su interpretación, prevalecerá el texto en inglés.

Santo Domingo, XX de XX de 2008

Sr. Tadashi Ikeshiro
Representante Residente de la JICA
en la República Dominicana
Agencia de Cooperación Internacional
del Japón

Sr. Esmérito A. Salcedo Gavilán
Síndico
Ayuntamiento del Distrito Nacional,
Santo Domingo de Guzmán,
República Dominicana

Sra. América Bastidas
Subsecretaria de Estado
Encargada de la Cooperación Internacional
Secretaría de Estado de Economía, Planificación y Desarrollo
República Dominicana

DOCUMENTO ADJUNTO

I. COOPERACIÓN ENTRE JICA Y EL GOBIERNO DE LA REPÚBLICA DOMINICANA

1. El Gobierno de la República Dominicana implementará el Proyecto de Seguimiento al Manejo Adecuado de los Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, República Dominicana (en adelante denominado "el Proyecto") en cooperación con JICA.
2. El Proyecto será implementado de acuerdo con el Plan Maestro que se muestra en el Anexo I.

II. MEDIDAS A SER TOMADAS POR JICA

De acuerdo con las leyes y regulaciones vigentes en Japón y al Artículo III, del Acuerdo, JICA, como la agencia ejecutora de la cooperación técnica por el Gobierno de Japón, tomará por su propia cuenta, las siguientes medidas según los procedimientos normales dentro del esquema de la Cooperación Técnica del Japón.

1. ENVÍO DE EXPERTOS JAPONESES

JICA proveerá los servicios de los expertos japoneses y/o de otros países como se muestra en el Anexo II.

La disposición del Artículo V del Acuerdo se aplicará a los expertos.

2. PROVISIÓN DE MAQUINARIAS, EQUIPOS Y OTROS MATERIALES

JICA proveerá los equipos (en adelante denominados como "los Equipos") necesarios para la implementación del Proyecto como se muestra en el Anexo III. La disposición del Artículo VII del Acuerdo se aplicará a los Equipos.

3. CAPACITACIÓN DEL PERSONAL DOMINICANO EN JAPÓN Y/O EN OTROS PAÍSES

JICA recibirá el personal dominicano relacionado con el Proyecto para brindarle capacitación técnica en Japón y/o en otros países.

III. MEDIDAS A SER TOMADAS POR EL GOBIERNO DE LA REPÚBLICA DOMINICANA.

1. El Gobierno de la República Dominicana tomará las medidas necesarias para asegurar la operación auto-sostenible del Proyecto, durante y después del período de la Cooperación Técnica del Japón, por medio del completo involucramiento de todas las autoridades, grupos de beneficiarios e instituciones relacionadas con el Proyecto.
2. El Gobierno de la República Dominicana, asegurará que las tecnologías y conocimientos adquiridos por los dominicanos como resultado de la Cooperación Técnica del Japón contribuirán al desarrollo económico y social de la República Dominicana.

3. De acuerdo a las disposiciones del Artículo V del Acuerdo, el Gobierno de la República Dominicana concederá los privilegios, exenciones y beneficios a los expertos japoneses referidos en II-1 del presente documento y a sus familias.
4. De acuerdo a las disposiciones del Artículo VII del Acuerdo, el Gobierno de la República Dominicana tomará las medidas necesarias para recibir y usar los Equipos provistos por JICA referidos en II-2 del presente documento, así como también los equipos y materiales introducidos, por los expertos japoneses, referidos en el Anexo III.
5. De acuerdo a las disposiciones del Artículo V.1.(2)(b) del Acuerdo, el Gobierno de la República Dominicana, proveerá los servicios del personal contraparte nacionales y personal administrativo mostrados en el Anexo IV.
6. De acuerdo a las disposiciones del Artículo V.1.(2)(a) del Acuerdo, el Gobierno de la República Dominicana, proveerá los edificios e instalaciones indicados en el Anexo V.
7. De acuerdo con las leyes y regulaciones vigentes en República Dominicana, el Gobierno de la República Dominicana tomará las medidas necesarias para suministrar o reemplazar por su propia cuenta, maquinaria, equipos, instrumentos, vehículos, herramientas, piezas de repuesto y cualesquier otros materiales necesarios para la implementación del Proyecto, aparte de los Equipos provistos por JICA referidos en II-2 del presente documento.
8. De acuerdo con las leyes y regulaciones vigentes en la República Dominicana, el Gobierno de la República Dominicana, tomará las medidas necesarias para cubrir los costos de operación necesarios para la implementación del Proyecto.

IV. ADMINISTRACIÓN DEL PROYECTO

1. El Síndico del Ayuntamiento del Distrito Nacional, será la persona en quién se delegue, en calidad de Director General del Proyecto, la máxima responsabilidad en la administración y ejecución del Proyecto.
2. El Director General de Aseo Urbano y Equipos del Ayuntamiento del Distrito Nacional, será la persona en quien se delegue, en calidad de Director del Proyecto, la responsabilidad de los asuntos administrativos, técnicos y de supervisión del Proyecto.
3. El Asesor Principal del equipo de expertos japoneses hará las recomendaciones y sugerencias necesarias al Director General y al Director del Proyecto en cualquier asunto relacionado con la ejecución del Proyecto.
4. Los expertos japoneses brindarán la asesoría técnica necesaria al personal de contraparte dominicana sobre asuntos técnicos relacionados a la ejecución del Proyecto.
5. Para la ejecución efectiva y exitosa de la cooperación técnica para el proyecto, se establecerá el comité de coordinación conjunta, cuyas funciones y composición están dentro de los anexos VI.

V. EVALUACIÓN CONJUNTA

La evaluación del Proyecto será realizada de manera conjunta por la JICA y las autoridades dominicanas, a la mitad del período de cooperación, así como durante los últimos seis meses de la conclusión del mismo, a fin de verificar su nivel de logros.

VI. RECLAMACIONES A LOS EXPERTOS JAPONESES

De acuerdo con las disposiciones del Artículo VI, del Acuerdo, el Gobierno de la República Dominicana, asumirá los reclamos, si ocurriera alguno contra los expertos japoneses encargados de la cooperación técnica del Proyecto, resultantes del desempeño de sus funciones oficiales o en relación a las mismas en la República Dominicana, exceptuando aquellas que pudieran derivarse de la mala conducta intencionada o grave negligencia de los expertos japoneses.

VII. CONSULTA MUTUA

JICA y el Gobierno de la República Dominicana, consultarán mutuamente con respecto a los temas importantes que se presenten, o con relación al Documento Adjunto.

VIII. MEDIDAS PARA PROMOVER EL ENTENDIMIENTO Y APOYO AL PROYECTO

Con el objetivo de promover el entendimiento y apoyo al Proyecto, el Gobierno Dominicano tomará las medidas apropiadas para hacer que el Proyecto sea ampliamente conocido por la población de la República Dominicana.

IX. PERIODO DE LA COOPERACIÓN

La duración de la cooperación técnica para el Proyecto bajo este Documento Adjunto será de tres (3) años a partir del primer envío de experto(s) en el año 2009.

ANEXO I	PLAN MAESTRO DEL PROYECTO
ANEXO II	LISTA DE EXPERTOS
ANEXO III	LISTA DE MAQUINARIAS, EQUIPOS Y OTROS MATERIALES
ANEXO IV	LISTA DEL PERSONAL CONTRAPARTE DOMINICANO Y DEL PERSONAL ADMINISTRATIVO
ANEXO V	LISTA DE TERRENOS, EDIFICIOS Y FACILIDADES
ANEXO VI	COMITÉ DE COORDINACIÓN CONJUNTA

ANEXO I. PLAN MAESTRO DEL PROYECTO

1. OBJETIVO SUPERIOR

Los objetivos del Plan de Manejo Integrado de Residuos Sólidos - MIRS (P/M revisado) se han logrado sustancialmente para el año 2015.

2. OBJETIVO DEL PROYECTO

El Manejo Integrado de Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, se ha fortalecido

3. RESULTADOS ESPERADOS

- (1) Se ha fortalecido la capacidad del ADN sobre planificación de MIRS.
- (2) Se ha consolidado el sistema de recolección de residuos sólidos mediante el mejoramiento del mantenimiento de los vehículos y de la concienciación pública.
- (3) Se ha introducido el enfoque 3Rs (Reducir, Reutilizar y Reciclar) para disminuir parte de los residuos que llegan al sitio de disposición final.

4. ACTIVIDADES DEL PROYECTO

- (1) Se ha fortalecido la capacidad del ADN sobre planificación de MIRS.
 - 1.1 Revisar el estatus actual del MRS e identificar problemas a ser ajustados.
 - 1.2 Revisar y analizar el estatus de implementación del Plan de MIRS (P/M)
 - 1.3 Revisar/crear metas y programas de acción del Plan de MIRS hacia el 2011 y el 2015.
 - 1.4 Preparar materiales de capacitación sobre planificación de MRS para apoyar a otros municipios.
 - 1.5 Dirigir capacitaciones y talleres sobre planificación de MRS para apoyar a otros municipios con los materiales antes mencionados.
- (2) Se ha consolidado el sistema de recolección de residuos sólidos mediante el mejoramiento del mantenimiento de los vehículos y de la concienciación pública.
 - 2.1.1 Estudiar la situación actual de las operaciones de mantenimiento correspondientes a los vehículos de recolección del ADN.
 - 2.1.2 Formular un plan de mejoramiento del sistema de mantenimiento de vehículos.
 - 2.1.3 Crear procedimientos sobre mantenimiento de vehículos.
 - 2.1.4 Implementar el plan de mejoramiento.
 - 2.1.5 Monitorear la implementación y retroalimentar el procedimiento de mantenimiento.
 - 2.2.1 Estudiar la situación actual de la(s) práctica(s) sobre depósito de residuos.
 - 2.2.2 Formular un plan para la mejora de la(s) práctica(s) sobre depósito de residuos.
 - 2.2.3 Elaborar materiales para la concienciación pública sobre las prácticas de depósito de residuos.
 - 2.2.4 Implementar el plan mediante el uso de los materiales antes mencionados.
 - 2.2.5 Monitorear la implementación y retroalimentar el plan.
- (3) Se ha introducido el enfoque 3Rs (Reducir, Reutilizar y Reciclar) para disminuir parte de los residuos que llegan al sitio de disposición final.
 - 3.1.1 Revisar la situación actual de las actividades de reciclaje de papeles, vidrio, metal, plástico y residuos orgánicos.
 - 3.1.2 Estudiar la factibilidad de reciclaje de otros materiales.

- 3.2.1 Diseñar un programa para la introducción de las 3Rs.
 - 3.2.2 Elaborar materiales para la concienciación pública y la promoción de las 3Rs.
 - 3.2.3 Implementar el programa de la introducción de las 3Rs.
 - 3.2.4 Monitorear la implementación y retroalimentar el programa.
-
- 3.3.1 Formular un plan para un proyecto piloto para ampliar las actividades de reciclaje.
 - 3.3.2 Implementar un plan para un proyecto piloto de reciclaje de papel.
 - 3.3.3 Revisar el proyecto piloto y elaborar un plan para ampliar el reciclaje de papel.
-
- 3.4.1 Formular un plan para un proyecto piloto de compost (abono orgánico).
 - 3.4.2 Implementar un proyecto piloto de compost.
 - 3.4.3 Revisar el proyecto piloto y formular un plan para ampliar la elaboración de compost.



ANEXO II. LISTA DE EXPERTOS

1. Asesor principal / Manejo de residuos sólidos
2. Educación sobre manejo de residuos sólidos y concienciación a la ciudadanía
3. Mantenimiento de vehículos
4. Minimización de residuos / Promoción de 3Rs



ANEXO III. LISTA DE MAQUINARIAS, EQUIPOS Y OTROS MATERIALES

1. Máquina trituradora de residuos provenientes de árboles y mercados
2. Vehículos
3. Otras maquinarias y equipos necesarios para la implementación efectiva de el Proyecto.

Los equipos arriba mencionados están limitados a los necesarios para las actividades de cooperación técnica llevadas a cabo por los expertos de JICA. El contenido detallado, las especificaciones y la cantidad de los equipos antes mencionados serán establecidos dentro del presupuesto asignado para el Proyecto.



ANEXO IV

LISTA DEL PERSONAL CONTRAPARTE DOMINICANO Y DEL PERSONAL ADMINISTRATIVO

1. Manejo de Residuos Sólidos

- (1) Director General de Aseo Urbano y Equipos
 - (2) Encargado de Programación y Control del Departamento de Aseo Urbano
 - (3) Encargado(a) Administrativa del Departamento de Aseo Urbano
 - (4) Asistentes Técnicos (2) del Departamento de Aseo Urbano
- 

2. Educación sobre Residuos Sólidos y Concienciación de la Ciudadanía

- (1) Director General de Desarrollo Humano
- (2) Coordinador de Animación Urbana
- (3) Coordinador(a) del Centro de Información Ambiental
- (4) Encargado del Departamento de Medio Ambiente
- (5) Asistentes Técnicos (2) del Departamento de Aseo Urbano

3. Gestión para Mantenimiento de Vehículos

- (1) Encargado del Departamento de Operaciones
 - (2) Encargado del Departamento de Mantenimiento
 - (3) Encargado de la Unidad de Operación de Compactadores
 - (4) Asistentes Técnicos (2) del Departamento de Aseo Urbano
- 

4. Minimización de Residuos / Promoción de 3Rs

- (1) Coordinador del Centro para la Promoción del Reciclaje
- (2) Asistentes Técnicos (2) del Centro para la Promoción del Reciclaje
- (3) Asistentes Técnicos (2) del Centro de Información Ambiental

5. Personal Administrativo y de Apoyo

- (1) Chofer(es)
 - (2) Trabajadores
 - (3) Otro Personal de Soporte
- 
-
- 

ANEXO V LISTA DE TERRENOS, EDIFICIOS Y FACILIDADES

1. Edificios y facilidades necesarias para la implementación del Proyecto
2. Espacio para oficina y facilidades necesarias para los expertos japoneses
3. Instalaciones y servicios tales como electricidad, servicio de agua, teléfono, línea de internet y mobiliario necesario para las actividades del Proyecto
4. Otras facilidades acordadas mutuamente como necesarios para la implementación del Proyecto

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ANEXO VI COMITÉ DE COORDINACION CONJUNTA

1. Funciones

El Comité de Coordinación Conjunta se reunirá por lo menos una vez al año y cuantas veces fuere necesario, y realizará los siguientes trabajos:

- (1) Formular el plan de trabajo operativo anual del Proyecto basado en el Plan de Operación dentro del esquema del Registro de Discusiones.
- (2) Revisar el progreso general y los logros del Proyecto.
- (3) Examinar el surgimiento de problemas mayores dentro o relacionados con el Proyecto.
- (4) Considerar la modificación de las actividades de acuerdo con las necesidades.

2. Presidente

Director General

3. Miembros

Parte dominicana:

- (1) Director del Proyecto
- (2) Representante(s) de la Mancomunidad del Gran Santo Domingo
- (3) Representante de la Secretaría de Estado de Medio Ambiente y Recursos Naturales
- (4) Representante de la Secretaría de Estado de Economía, Planificación y Desarrollo

Parte japonesa:

- (1) Experto(s) del Proyecto enviados por JICA
- (2) Representante residente de JICA en la República Dominicana
- (3) Otros miembros aprobados de conformidad con el Presidente

Observadores:

- (1) Oficial de la Embajada del Japón

Matriz de Diseño de Proyecto (PDM)
 Nombre del Proyecto: Proyecto de Seguimiento al Manejo Adecuado de los Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, República Dominicana
 Duración del Proyecto: 3 años
 Área Objeto: Ayuntamiento del Distrito Nacional (ADN)

Resumen explicativo	Indicadores Verificables	Medios de Verificación	Supuestos Importantes
Objetivo Superior del Proyecto Los objetivos del Plan de Manejo Integrado de Residuos Sólidos - MIRS (P/M revisado) se han logrado sustancialmente para el año 2015.	Meta de la tasa de recolección (2015) establecida en el P/M revisado Meta de la minimización de residuos (2015) establecida en el P/M revisado Meta de la estabilidad financiera (2015) establecida en el P/M revisado	P/M revisado Informes y base de datos elaborados por el ADN	
Objetivo del Proyecto El Manejo Integrado de Residuos Sólidos en Santo Domingo de Guzmán, Distrito Nacional, se ha fortalecido.	1. Meta de la tasa de recolección establecida en el P/M revisado 2. Meta de la minimización de residuos establecida en el P/M revisado 3. Número de quejas recibidas en Centro de Atención al Cliente 4. Grado de satisfacción de la ciudadanía respecto del servicio de recolección	P/M revisado Informes y datos elaborados por el ADN Informes de quejas Informes del encuesta del grado de satisfacción	La operación de relleno sanitario es introducida y continuada en el (los) sitio (s) de disposición final.
Resultados Esperados 1. Se ha fortalecido la capacidad del ADN sobre planificación de MIRS. 2. Se ha consolidado el sistema de recolección de residuos sólidos mediante el mejoramiento del mantenimiento de los vehículos y de la concienciación pública. 3. Se ha introducido el enfoque 3Rs (Reducir, Reutilizar y Reciclar) para disminuir parte de los residuos que llegan al sitio de disposición final.	1.1 Se ha elaborado un borrador del P/M revisado. 1.2 Se han elaborado los materiales para la capacitación sobre el MIRS. 1.3 Se han llevado a cabo, por lo menos dos veces, talleres de capacitación dirigidos por el ADN para otros municipios. 2.1 Se ha sistematizado la información sobre el mantenimiento de vehículos. 2.2 Ha disminuido el número de informes sobre negligencia en el depósito de residuos. 3.1 Se ha incrementado la cantidad de papel en las actividades de reciclaje que realiza ADN. 3.2 Se ha incrementado la cantidad de residuos orgánicos utilizados en la elaboración de compost (abono orgánico). 3.3 Se ha identificado el potencial de reciclaje de otros recursos. 3.4 Número de juntas de vecinos donde los programas de promoción de las 3Rs han sido introducidos.	1.1 P/M revisado 1.2 Materiales para capacitación 1.3 Informes de los talleres de capacitación 2.1 Informes de mantenimiento 2.2 Informes de los fiscalizadores 3.1 Informes del Centro para la Promoción del Reciclaje 3.2 Informes del Centro para la Promoción del Reciclaje 3.3 Informes de campo 3.4 Informes del Centro para la Promoción del Reciclaje	Desastres naturales no afectan el progreso del proyecto. El gobierno de la República Dominicana mantiene o mejora los principios de las políticas nacionales actuales sobre manejo de residuos. El sitio de la disposición final continúa recibiendo residuos de Santo Domingo de Guzmán, Distrito Nacional, durante el proyecto.

Actividades del Proyecto	Insumos	Supuestos Importantes
<p>1. Se ha fortalecido la capacidad del ADN sobre planificación de MIRS.</p> <p>1.1 Revisar el estatus actual del MRS e identificar problemas a ser ajustados.</p> <p>1.2 Revisar y analizar el estatus de implementación del Plan de MIRS (P/M)</p> <p>1.3 Revisar/crear metas y programas de acción del Plan de MIRS hacia el 2011 y el 2015.</p> <p>1.4 Preparar materiales de capacitación sobre planificación de MRS para apoyar a otros municipios.</p> <p>1.5 Dirigir capacitaciones y talleres sobre planificación de MRS para apoyar a otros municipios con los materiales antes mencionados.</p> <p>2. Se ha consolidado el sistema de recolección de residuos sólidos mediante el mejoramiento del mantenimiento de los vehículos y de la concienciación pública.</p> <p>2.1 Estudiar la situación actual de las operaciones de mantenimiento correspondientes a los vehículos de recolección del ADN.</p> <p>2.1.2 Formular un plan de mejoramiento del sistema de mantenimiento de vehículos.</p> <p>2.1.3 Crear procedimientos sobre mantenimiento de vehículos.</p> <p>2.1.4 Implementar el plan de mejoramiento.</p> <p>2.1.5 Monitorear la implementación y retroalimentar el procedimiento de mantenimiento.</p> <p>2.2.1 Estudiar la situación actual de las prácticas sobre depósito de residuos.</p> <p>2.2.2 Formular un plan para la mejora de las prácticas sobre depósito de residuos.</p> <p>2.2.3 Elaborar materiales para la concienciación pública sobre las prácticas de depósito de residuos.</p> <p>2.2.4 Implementar el plan mediante el uso de los materiales antes mencionados.</p> <p>2.2.5 Monitorear la implementación y retroalimentar el plan.</p> <p>3. Se ha introducido el enfoque 3Rs (Reducir, Reutilizar y Reciclar) para disminuir parte de los residuos que llegan al sitio de disposición final.</p> <p>3.1.1 Revisar la situación actual de las actividades de reciclaje de papeles, vidrio, metal, plástico y residuos orgánicos.</p> <p>3.1.2 Estudiar la factibilidad de reciclaje de otros materiales.</p> <p>3.2.1 Diseñar un programa para la introducción de las 3Rs.</p> <p>3.2.2 Elaborar materiales para la concienciación pública y la promoción de las 3Rs.</p> <p>3.2.3 Implementar el programa de la introducción de las 3Rs.</p> <p>3.2.4 Monitorear la implementación y retroalimentar el programa.</p> <p>3.3.1 Formular un plan para un proyecto piloto para ampliar las actividades de reciclaje.</p> <p>3.3.2 Implementar un plan para un proyecto piloto de reciclaje de papel.</p> <p>3.3.3 Revisar el proyecto piloto y elaborar un plan para ampliar el reciclaje de papel.</p> <p>3.4.1 Formular un plan para un proyecto piloto de compost (abono orgánico).</p> <p>3.4.2 Implementar un proyecto piloto de compost.</p> <p>3.4.3 Revisar el proyecto piloto y formular un plan para ampliar la elaboración de compost.</p>	<p><u>Parte Japonesa:</u></p> <p>(1) Expertos</p> <p>(2) Capacitaciones</p> <p>(3) Costos locales</p> <p>(4) Maquinarias, equipos y otros materiales</p> <p><u>Parte Dominicana:</u></p> <p>(1) Personal contraparte incluyendo personal administrativo</p> <p>(2) Espacio para oficina y salas de reunión</p> <p>(3) Transporte de los expertos</p> <p>(4) Costos locales</p> <p>(5) Sitio (\$) para la elaboración del compost (abono orgánico)</p>	<p>Las contratistas privadas continúan brindando el servicio de recolección.</p> <p>El personal contraparte se mantiene en sus posiciones durante el proyecto.</p> <p>El presupuesto necesario para la contraparte está asegurado durante el proyecto.</p> <p>Precondiciones</p>

APÉNDICE IV LISTA TENTATIVA DEL PERSONAL CONTRAPARTE

1. Manejo de Residuos Sólidos

- (1) José Miguel Martínez Guridy, Director General de Aseo Urbano y Equipos
- (2) Hugo Pérez Sarraff, cargado de Programación y Control del Departamento de Aseo Urbano
- (3) Rudilerci Castillo, Encargada Administrativa del Departamento de Aseo Urbano
- (4) Manuel Ramírez, Asistente Técnico del Departamento de Aseo Urbano
- (5) Francisco Martínez, Asistente Técnico del Departamento de Aseo Urbano

2. Educación sobre Residuos Sólidos y concienciación de la ciudadanía

- (1) Juan José Guzmán, Director General de Desarrollo Humano
- (2) Luis Taveras, Coordinador de Animación Urbana
- (3) Mariana Szabo, Coordinadora del Centro de Información Ambiental
- (4) Anyelina Aquino, Encargado del Departamento de Medio Ambiente
- (5) Marcel Florenzan, Asistente Técnico del Departamento de Aseo Urbano
- (6) Leomaris Henríquez, Asistente Técnico del Departamento de Aseo Urbano

3. Gestión para Mantenimiento de Vehículos

- (1) Oscar García Arias, Encargado del Departamento de Operaciones
- (2) Luis Checo, Encargado del Departamento de Mantenimiento
- (3) Manuel Roa, Encargado de la Unidad de Operación de Compactadores
- (4) David Rodríguez, Asistente Técnico del Departamento de Aseo Urbano

4. Minimización de Residuos/Promoción de 3Rs

- (1) Miguel Germosen, Coordinador del Centro para la Promoción del Reciclaje
- (2) Heisor Arias, Asistente Técnico del Centro para la Promoción del Reciclaje
- (3) Pablo Mejía, Asistente Técnico del Centro para la Promoción del Reciclaje
- (4) Evelyn Guerrero, Asistente Técnico del Centro de Información Ambiental
- (5) Sarah Mercado, Asistente Técnico del Centro de Información Ambiental

番号	名 称	発行機関
1	サントドミンゴ首都圏共同体結成合意書・定款（西文）	ADN
2	サントドミンゴ特別区2015年戦略的計画（西文）	ADN
3	環境情報センター案内書（西文）	ADN
4	教材 固形廃棄物に係る環境教育ガイド（西文）	ADN
5	条例 68-91号 住宅における廃棄物収集料金規定（西文）	ADN
6	条例 118-94号 事業所における廃棄物収集料金規定（西文）	ADN
7	条例 サントドミンゴ西市設立に係る条例（西文）	ADN
8	条例 第120-99号 不法投棄処分規則（西文）	ADN
9	条例 無害廃棄物管理に係るADN条例（西文）	ADN
10	ドミニカ共和国支援戦略（西文）	BID
11	ガイドライン 小規模処分場の設計と運営（西文）	CEPIS
12	ガイドライン 清掃事業規定：料金設定（西文）	CEPIS
13	ガイドライン 廃棄物管理評価：指標設定（西文）	CEPIS
14	ガイドライン 有害廃棄物の定義と分類（西文）	CEPIS
15	省令 固形廃棄物 放射性廃棄物における環境基準（西文）	SEMARN
16	法律 第64-00号 環境天然資源一般法（西文）	SEMARN
17	法律 第176-07号 自治体組織法 新法（西文）	ドミニカ共和国政府
18	法律 第3455号 自治体組織法 旧法（西文）	ドミニカ共和国政府

6. 事前質問表と回答

Question 1. Municipal Solid Waste in National District Municipality (ADN)

(1) Amount of waste (as many years as possible, at least 3 years)

	2005 ^a	2006 ^a	2007	2008	2009	2010	2011	2012	2013	2014	2015
NATIONAL DISTRICT ^a	980,653	994,627	1,008,800	1,023,176	1,037,756	1,052,544	1,067,543	1,082,755	1,098,165	1,113,834	1,129,708
PROV. SANTO DOMINGO	1,951,295	1,979,101	2,007,303	2,035,907	2,064,919	2,094,344	2,124,188	2,154,458	2,185,159	2,216,258	2,247,880
SANTO DOMINGO OESTE	566,491	574,564	582,752	591,056	599,478	608,021	616,685	625,473	634,386	643,426	652,585
SANTO DOMINGO NORTE	395,939	401,581	407,304	413,108	418,994	424,965	431,021	437,163	443,392	449,711	456,119
SANTO DOMINGO ESTE	882,047	894,616	907,364	920,294	933,408	946,709	960,200	973,883	987,761	1,001,836	1,016,113
SANTO DOMINGO SOCA CHICA	106,818	108,340	109,884	111,450	113,038	114,649	116,282	117,939	119,620	121,325	123,054

^a For the National District and Santo Domingo Province, it is estimated a growth rate of 1.425% and a geometrical projection was used

^b CONAPOFA Data

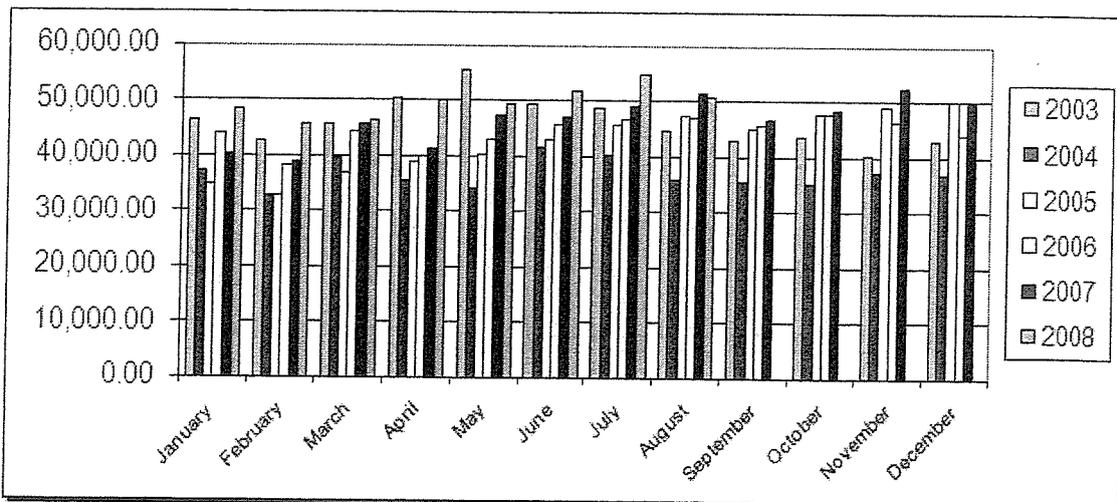
^c CONAPOFA Data

Population

- Amount of waste

Total Waste Amount 2003-2008

	2003	2004	2005	2006	2007	2008
January	46,527.27	37,398.68	34,850.31	43,920.44	40,417.48	48,439.55
February	42,654.43	32,915.01	32,987.65	38,213.11	39,007.43	45,693.67
March	45,635.91	39,786.63	37,107.79	44,521.71	45,713.03	46,605.52
April	50,600.37	35,610.35	39,035.80	40,064.26	41,524.26	50,048.60
May	55,636.99	34,157.10	40,501.14	42,993.65	47,577.91	49,463.44
June	49,635.38	41,530.03	42,990.38	45,866.87	47,100.15	52,024.38
July	48,957.08	40,226.73	45,629.39	46,768.60	49,166.60	54,909.73
August	44,837.01	35,963.35	47,400.66	47,267.92	51,542.68	51,012.61
September	43,193.62	35,697.49	44,924.08	45,748.58	46,738.96	
October	43,803.12	35,195.57	47,680.51	47,754.39	48,481.38	
November	40,355.03	37,216.56	49,263.39	46,557.07	52,622.53	
December	43,147.02	36,982.59	50,284.23	44,163.58	49,663.91	
Total	554,983.23	442,680.09	512,655.33	533,840.17	559,556.33	398,197.50
Prom Moth	46,248.60	36,890.01	42,721.28	44,486.68	46,629.69	49,774.69
Prom Day	1,520.50	1,209.51	1,404.54	1,462.58	1,533.03	1,631.96



Generation Source		Generation Rate
Households		780 g/person/day
Commerce	Restaurant	1,270 g/seat/day
	Others	1,060 g/employee/day
Institutions		200 g/employee/day
Market		15,080 g/stall/day
Street sweeping		220 g/m/day

Note: The waste generation rates were obtained by rounding the results of WACS off to ten's place.

- Composition analysis data of waste

Category		Carbon (C)	Nitrogen (N)	C/N Ratio
Household/ Middle Income	Kitchen waste	1.8	52.7	29.8
	Garden Waste	1.1	53.2	47.7
Commercial/ Restaurant	Kitchen waste	1.7	48.4	29.0
	Garden Waste	1.1	55.5	52.7
Market	Kitchen waste	2.1	50.7	24.3
	Garden Waste	1.3	49.0	37.6

% (Wet Base)

Category	Low Income	Middle Income	High Income
Kitchen Waste	51.2	53.5	45.7
Paper	11.7	16.9	22.4
Textile	3.0	3.7	5.4
Grass/Wood/Bamboo	10.5	5.9	1.3
Plastic	17.9	8.4	10.6
Rubber/Leather	1.4	0.0	0.0
Metal	1.9	1.7	3.1
Bottle/Glass	2.4	8.0	8.3
Soil/Stone/Ceramics	0.0	1.9	3.2
Others	0.0	0.0	0.0
Total	100	100	100

Category		Bulk Density (kg/m ³)
Household	High Income	151.4
	Middle Income	164.3
	Low Income	204.3
Commerce	Restaurant	218.3
	Others	53.4
Institutions		46.2
Market		285.6
Street sweeping		162.8

(2) Discharge

- Are waste containers for discharge used in communities?

Actually the housing solid waste is stored in plastic bags, metallic, wood or cardboard containers, inclusive randomly, which usually are located on the exits of the narrow streets or in the avenues between the sidewalk and paved ways, generating big piles. In some sectors storage booths made in concrete have been built, the smaller ones goes from 0.5x 0.5x 0.5m and the bigger ones surpass the 2,0x2,5x2,5 m (height x width x length respectively), in some cases the bigger ones have a door, in these structures waste is preferably stored in plastic bags and randomly.

The inadequate storage of waste and te fact that most people takes out their waste at any time causes waste scattering problems either by dogs or scavengers, named as "buzos". Scavengers do collect valuable things or recyclable materials, and results in disfigurement and unsanitary condition of the city. In marginal barrios located in Circumscription 3, residents discharge part of their waste directly to the Ozama riverside, thus causing high level of contamination in river water.

(3) Waste Collection

1) General information

- Service organization and coverage area (Please show us the map)

ADN SERVICES and DSC are the most important contractors for solid waste collection and transportation to landfill. These two operates household collection service, the first one in the 1 and 3 Districts, and the second one in the District No. 2. The waste of great size or the one that comes from big generators (for example condominiums or high rise buildings, as well as scarce industries) are collected by LAU, CTL, Nin and KLINETEC, independent companie, which operate indistinctly in the three districts, and charge service directly to the generators. For the case of the waste collected from big markets, ADNy maintains a contract with SERTEXy. All this waste is disposede in Duquesa landfill.

In the marginal areas located in the District No. 3, there are five micro enterprises in charge of waste collection. These are ECOSAGUACIGUA27 attending the Guandules, La Cienaga, Gualey and February 27 barrios, ESCOBA covering Capotillo barrio; ESAZURZA covering La Zurza, FUNDSACO covering Simon Bolivar and FUNDEMAPU for La Puya. These five discharge the waste in the Transfer Station located in Villas Agrícola, District . The following figure shows the territorial

- Distribution of the companies and micro-companies.

Operator Type	Operator	Activity	Circumscriptions Covered
Private company	ADN SERVICE	Collection of housing, public, medicals, greens, etc. solid waste.	1 and 3
	DSC	Collection of housing, public, medicals, greens, etc. solid waste.	2
	KLINETEC and LAU	Collection of voluminous waste, debris and buildings and condominium wastes.	1, 2 and 3
	SERTEX	Market waste collection.	1, 2, 3
	SOINCA ADN TRANSFER	Transfer transport to Duquesa	2, 3
Micro Company	ECOSAGUACIGUA ESAZURZA ESCOBA	Collection of housing waste, debris and green remains.	3, marginal barrios
Municipality	ADN	Collection of housing, public, medicals, greens, etc. solid waste.	1, 2 and 3
	ADNAU	Housing waste collection in big avenues.	1, 2, 3
		Transport vehicles for the transfer points.	1



- Collection frequency

Service is provided for most routes three times a week, but in some others is offered on daily basis

- Collection time (e.g. around 4:00am, from 8:00 to 17:00, each service organization)

The collection service is designed based on workday that goes from 07:00 until 17:00 in the case of the service given by the Municipality. For private companies journey is longer to finish after 20 :00. Special Service Routes designed for Colonial Zone had night shift from 18:00 until 22:00.

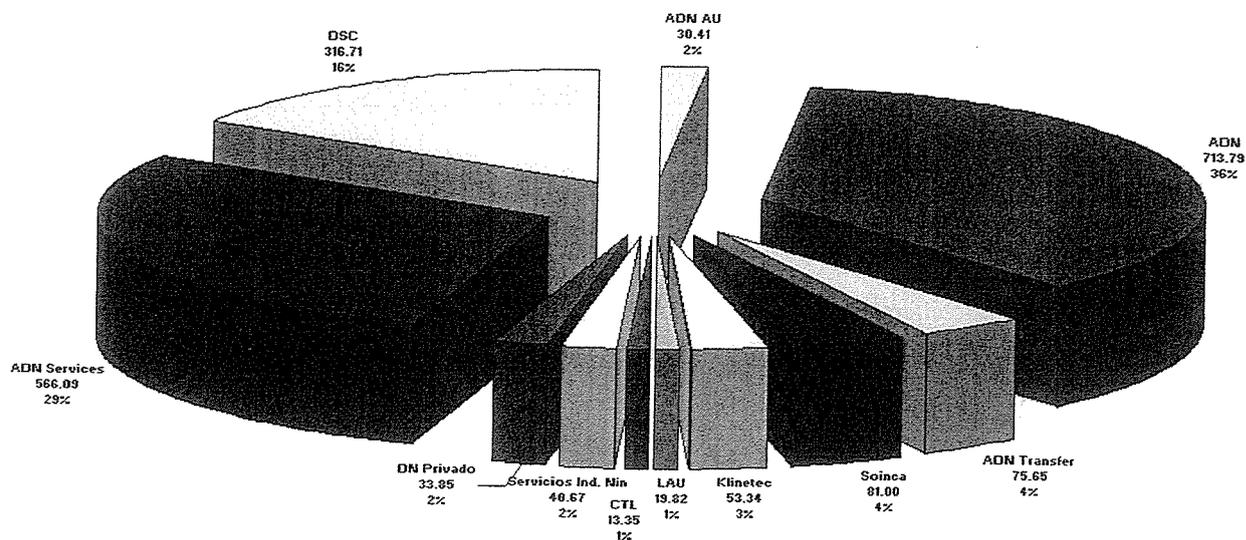
- Collection routes

Collection Routes

Contractor	Frequency		Total
	Daily	3 Day	
DSC	23	17	40
ADN Services	64	24	88

The collection routes are designed according de heuristic method and incorporated into the collection services contact.

- Past record of amount of collected waste (each service organization)



- Application of time-and-motion surveys for the improvement of waste collection routes

Although considered very important to improving service, is not conducted regularly.

- Waste collection fee (tariff), payment method, fee collection rates and amount

Waste collection fee is a five groups scale, ranging from 100 DOP to 200 DOP. Payment is due to a bill issued monthly, which is honored by more or less fifty percent of households and increasing.

- Utilization of experience from the previous JICA Development Study (2005-06) for improving collection services (The number of areas where the collection services has been improved based on the output)

Based on the experience, training and skills produced during and after Development Study more than sixty percent of our territory is under a route-frecuency collection service.

2) Capacity of each service organization

- Number of vehicle

Operator	Vehicles			Personnel		
	Quantity	Capacity (TON)	Type	Driver	Collection Helper	Administrative Inspector
ADN	4	25	Compactor	112	265	159
	24	6	Compactor			
	40	2	Small dump truck			
	16		Transfer Vehicles			
ADN Services	39	25	Compactor	70	192	56
	20	20	Compactor			
Micro Companies	8	2	Small dump truck	8	16	18
DSC	15	20	Compactor	30	96	28
	9	6	Compactor			

- Number of daily trip by one vehicle

Average of two, minimum one, maximum four for small open dumping trucks

- Number of collection worker

Including contractors must be around 500 hundreds, but reducing due to more efficient trucks.

- Average salary of collectors

Average is around 7000 DOP, minimum official wage is 5000 DOP

- Maintenance system for collection equipment

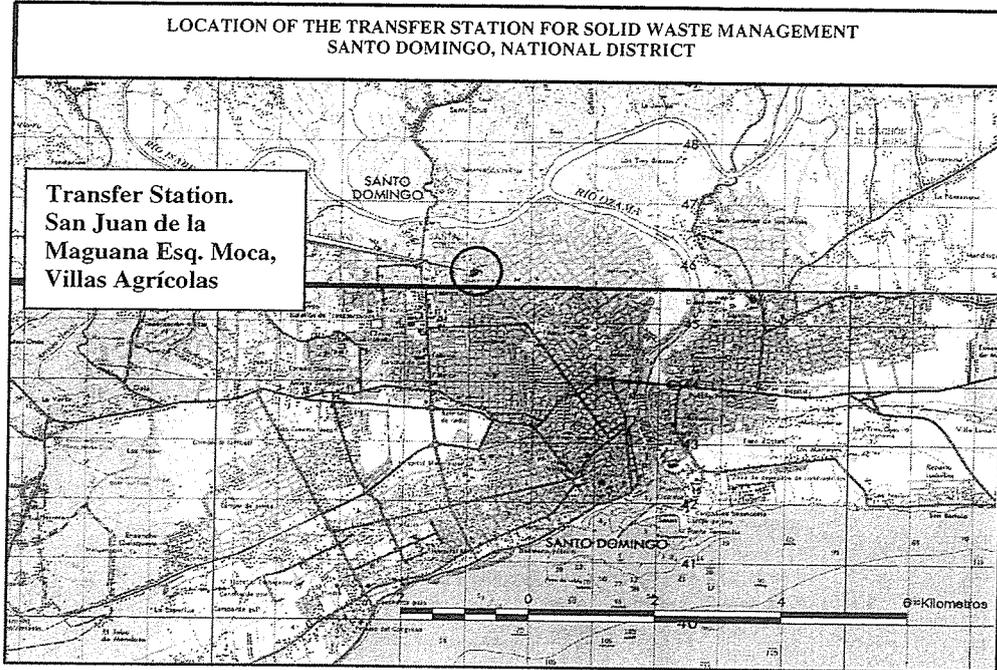
Maintenance is carried out by contractors themselves, as well as by ADN for municipal owned units. In both cases is to be considered a constraint to an adequate waste collection service.

3) Transfer station

- Name of facility

Transfer Station for Solid Waste Management

- Location



- Area of facility

5,000 m²

- Capacity of facility and average amount of waste transfer

- Capacity of Facility	of	- Average amount of Waste Transfer
- 500 tons/day		- 753.21 tons/day

- Major equipment

Wastebridge, motor shovels, volquettes.

- Number of workers

Around fifty (50).

- Studies to improve the efficiency of waste collection, treatment and disposal system based on the introduction and expansion of transfer station

Not conducted yet.

(4) Intermediate treatment facility

- Are there any intermediate treatment facilities (e.g. composting plant) for municipal solid waste in Santo Domingo National District?

No, there are not intermediate treatment Facilities

- If yes, please show us the name, type of treatment, capacity, and annual amount of waste.

(5) Recycling

- Number of recyclable dealers inside and peripheral area

There is not precise data available

- Item and price dealing at the recyclable dealers (if possible)

According to the Recycle Market Survey made in the Master Plan, we have this data:

Table 3-72: Purchase prices of the Companies

Material	Price
PET	0.10-0.12 US\$ / pound (post-industry) 19.00 /ton RD\$
Large Polycarbonate Bottles	15.00 /large bottles RD\$
Glass Bottles	1.00 RD\$ for 3 bottles at Duquesa's dump site 0.50 - 0.75 RD\$ at storing centers. 1.00 RD\$ per bottle at the brewery
Broken glass	0.32 - 0.79 RD\$ /kg US\$ 12.0 /Ton (out of the country) US\$ 0.025 /Kg
Aluminum Sheets	12.0 RD\$/pound
Scrap iron	According to the international market price and the quality of material
Packs of white paper	2.95 RD\$/pound
Packs of mixed paper	1.4 RD\$/pound
Cardboard tube*	From 1.0 to 10.0 RD\$ each cone (according to the size)
Paper not classified	0. - 1.50 RD\$/kg
Cardboard	0.50 - 1.00 RD\$/kg

* Cardboard tube is a tube shaped paper for printing.

Table 3-70: Sale Prices of the Material recovered

Material	Prices (in RD\$)
Plastic Bags	1.00-3.00 RD\$/ Pound
PET Bottles	2.50 RD\$/ Pound
Metal (diverse)	10.00 RD\$/ Pound
Glass bottles in the final disposal site (Duquesa's dump site)	3 bottles of any type for 1.00 RD\$ 1 sack* of bottles for 20.00 RD\$
Glass bottles outside Duquesa's dump site	Between 0.55 and 0.75 RD\$ each bottle

* Mixed bottles, the sack contains between 40 and 100 of bottles depending on its size, the average is bottles per sack.

- Implemented or future planned activities by ADN to promote recycling

In 2007 it was created the Center for promoting Recycling and 3Rs (RECICLADN), to develop public awareness campaign about the importance of Reduce, Re-Use and Recycle. It starts as a pilot project of recycling paper material.

- Location situation of end-user which means manufacturing plant by using recyclables, such as electric steel maker, aluminum factory, cement factory, paper factory, plastic facto. Please specify each location situation of end-user of each recyclables one by one. (e.g. steel can ; export to Mexico, Aluminum; export to America, Plastic bag; domestic plastic factory located in Santo Domingo city)

Table 3-74: Exportation of recycled or recyclable material or products

Products	Year	Value FOB (Thousands of US\$)	Quantity (kg)	Main export counterparts
Paper and Cardboard*	1998	3,853	4,171,018	Haiti, Puerto Rico and Trinidad and Tobago
	1999	3,881	4,123,359	
	2000	3,988	4,132,207	
Glass Bottles	1998	5	7,030	Central America and the Caribbean
	1999	176	107,969	
	2000	24	83,000	
Plastics and its manufacture**	1998	13,817	7,909,217	United States, Barbados, Colombia, Costa Rica, Curacao, El Salvador, Haiti, Honduras, Guatemala
	1999	16,185	10,577,882	
	2000	19,259	13,413,913	
Scrap-iron	1998	571	5,629,853	China, United States, Mexico and Taiwan
	1999	660	8,021,606	
	2000	968	11,047,011	
Copper wastes	1998	149	1,084,158	United States, Germany, Mexico and Taiwan
	1999	314	881,030	
	2000	422	586,819	
Aluminum Wastes	1998	2,444	3,306,035	United States, Puerto Rico, Guadalupe, China
	1999	815	4,977,538	
	2000	1,152	6,239,837	
Lead Wastes	1998	575	3,712,479	Colombia, Venezuela, United States, El Salvador, Singapore
	1999	284	2,008,790	
	2000	606	4,005,050	

*Includes paper and cardboard wastes, as well as products, which is not determined as virgin materials.

**These values include products, which is not determined as virgin materials.

Source: Information provided by the ALCA Hemispheric Data Base.

- Utilization of organic fertilizer in agriculture (e.g. organic agriculture by using organic fertilizer, existence of manufacture of organic fertilizer from organic material, investigation of composting from waste in Dominica republic)

No Data available

- Utilization of waste as livestock feed

No Data available

(6) Landfill

1) Duquesa landfill

- Location

Duquesa's landfill site is located in the Municipality of Santo Domingo North approximately about 18 km. to the northwest of the National District, actually it assist the Municipalities of Santo Domingo North, Santo Domingo West, Santo Domingo East and National District. Duquesa's landfill allowed closing the final disposal site of the Guaricano.



Figure 3-31: Duquesa's landfill location

- Area

It covers a surface of 127.81 ha. from which approximately the 60% has been used in waste disposal.

- Capacity of landfill

Approximately 3,200 tons every day

- Lifetime of landfill

From now it is estimated 7 to 10 years more of lifetime

- Tipping fee, fee collection method, amounts and rates of fee collection

Actually the National District Municipality pays to the private company that manages the landfill a settled amount of RD\$6,500,000.00 per month (US\$187,000.00).

- Technical standards for waste disposal facility such as design, location, operation and safety monitoring systems for gas emission and leachates controls.

Data is not available in a published manner if existing or collected-

2) Operation

a. Operation organization

In 1998 the operation passes to the private company DOANSA. Due to the new territorial administration division, since 2002 Duquesa's landfill passed to be under the jurisdiction of Santo

Domingo North Municipality, who in May 7th 2004 signed a concession contract with Duquesa's Consortium, formed by a local company and a Brazilian company, transferring the administration, operation, maintenance of the biogas controls, of the leakages, of the equipments, the property of the physical plant. Through the same contract the Municipality of Santo Domingo North authorized the concessionaire to use the gas for the same period of its extinction, forcing the concessionaire to pay 5% of the net benefits that they obtain. The contract starts since June 1st of the same year and has a duration of 20 years. Currently, another concessionaire, LAJUN Corporation, runs the landfill since 2006..

- Number of workers

It has a total of 75 persons distributed according to the following details:

- 5 In charge of weighing*
- 5 In charge of the administrative cleaning sector*
- 3 In charge of the warehouse*
- 5 Drivers*
- 10 Operators*
- 5 Mechanics*
- 5 Workers*
- 10 In charge of the area (workshop, general area, dump, etc.)*
- 6 Administrative personnel*

The rest of the personnel are dedicated to the administrative and control works.

b. Management of landfill

- Please show us the current condition of operation of Duquesa landfill

When Duquesa's Consortium Company (LAJUN Corporation) took the operation management it carried out several field studies in order to define the future features of the project. Within these studies is the construction of three exploratory drilling, with the purpose of knowing the features of the land, which are mainly conformed by a clay stratum with of thickness from 5 to 6 m, gritty loamy between 6 to 10m. The aquifer level was detected at the 11m. Additionally, presents a work program, dividing the area in three sectors, the first one correspond to the area with old waste that have a height around 10m denominated as a covered and closed area, the second sector corresponds to the transition area, which includes a surface of approximately 65.00 m², which allows the operation for an approximately period of 10 months, and that is where they are working since may of the present year, in a part of this area their was a waste mass between 1,5 and 3 m of thickness, the project considers the disposition of waste conforming cells of 7 m of height which later covered the floor, approximately 60 cm of fine soil material and 40 cm of coarse material. The last sector corresponds to the future area of waste disposal, which at the same time is divided in two, Area for the Implantation of the new Waste Treatment Center (WTC), and Areas for future expansions. In this sector the operation will be carried out based on the construction of a landfill by the terrace level method, being considered 4 levels of 5 m each one with a terrace of 7 m of wide

among them. Starting from the antecedents of the year 2004 of waste incomes and the design proposed for the future waste disposition a useful life around 20 years has been calculated, however, the great increase of waste entered (approximately 30% from January to October 2005), makes necessary to revise these calculations.

- Control of collection vehicle

Yes, together with municipalities.

- Data collection using a weighbridge

Yes, only one way at the entrance.

- Equipment for landfill operation

- *1 Caterpillar Tractor D-6,*
- *6 Caterpillar Tractor D-8*
- *1 Caterpillar Tractor D-7*
- *2 Komatsu Tractor D155*
- *1 Komatsu Excavator PC200*
- *2 Caterpillar Excavator*
- *1 Frontal Charger*

- Cover soil

Yes, on a daily basis.

- Leachate control and treatment

No

- Landfill gas control system

No

- Slope protection of embankment

Not really.

3) Waste pickers

- Number of waste picker in Duquesa landfill

It is not easy to learn through a simple question the number of people that work informally. These workers do not appear in normal listings, so perception of numbers is always uncertain. Answers to this question ranged as widely as from 300 to 50.

- Gate control or waste-picking control such as registration/permit

There's not any formal control of scavengers

- Educational campaign /communication for the waste pickers

No

4) Plan of new landfill

- Two options (MP1 or MP2) for the landfill management were proposed in the Master plan in the JICA Development study. Has it been already decided?

No. The National District Municipality hasn't decided yet on options proposed in the Master Plan (MP1 or MP2). This selection depends of many factors and it has to be a joint decision among the municipalities of Santo Domingo Metropolitan Area. Also there is not space available in the territory of National District to build a landfill site, that's why the selection of MP1 or MP2 depends on the neighboring communities.

- If ADN chose MP2, please show us the current progress of the plan.

Not ready for a decision yet.

(7) Street Sweeping

- Number of worker

District	Polygon N°	Brigade N°	Personnel			
			Polygon Manager	Brigade Coordinator	Workers	Total
1	24	47	24	47	564	635
2	7	45	7	45	293	345
3A	8	32	8	32	257	297
3B	12	23	12	23	176	211
TOTAL	51	147	51	147	1.290	1.488

We are involved on a sweep efficiency pilot project, in order to increment the efficiency and bags reduction:

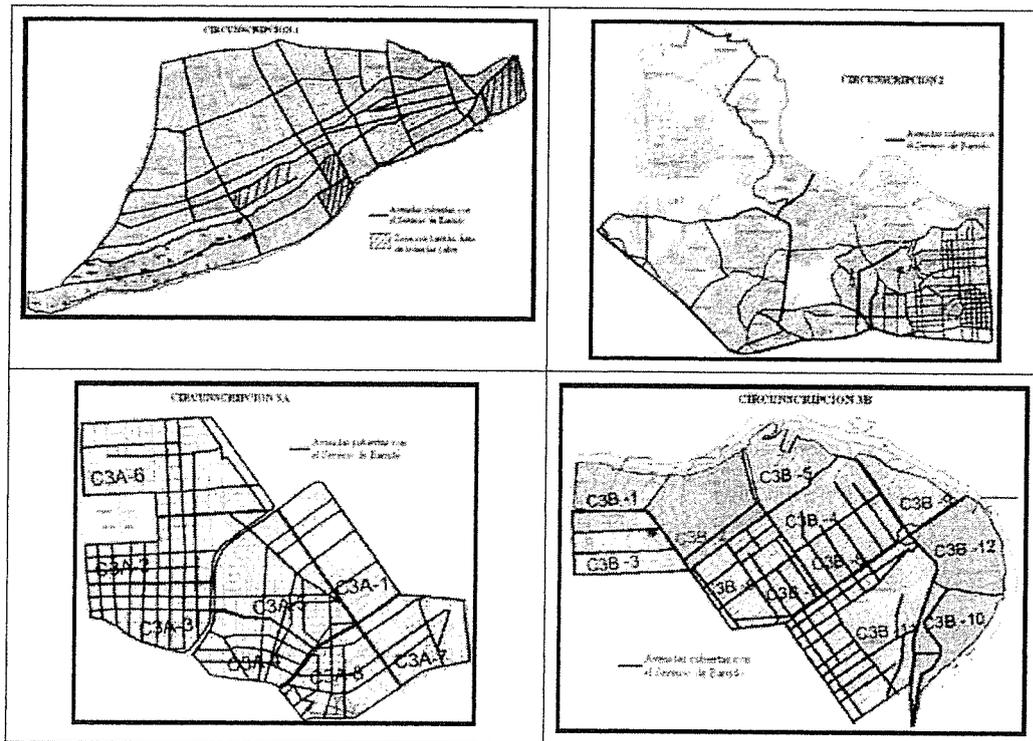
Sector	Km	Workers	Bags(weeks)		Cost (Weeks)		Shift
			Before	After	Before	After	
Zona Colonial	42	88	12000	3500	60000	17500	3
Villa Francisca	17	43	2800	1750	14000	8750	2
San Carlos	20	18	2800	1750	14000	8750	1
Mejoramiento Social	21	21	2800	1995	14000	9975	1
Villa Consueño	55	48	3000	4000	15000	20000	1
Villa Juana	49	40	2100	2800	10500	14000	1
Villas Agrícolas	24.5	20	-	-	-	-	1

- Frequency of sweeping

The service is carried out between the 07:00 and 16:00 hrs. from Monday thru Saturday, on Sunday they work with 50% of the personnel and the day ends at 14:00 hr

- Area/distance of sweeping

It ranges from one to one a half Km per person.



(8) Industrial waste and Healthcare waste

1) Industrial waste

- Information, on the amount of industrial waste in the municipal area, disposal methods, etc.

Data not available in a precise manner, but we estimate 50 tons per day of industrial waste.

2) Healthcare waste (from medical institutions)

- Information, on the amount of healthcare waste in the municipal area, disposal methods, etc.

According to numbers of hospital beds, it is around 5 tons per day, but information is not precise.

(9) Activities of residents and NGO

- Please describe the activities of residents and/or NGO for municipal solid waste management and recycling.

NGOs are not present in almost any aspect. Residents range from those that provides their waste in a orderly manner, in wel, tied plastic bags, to those littering their waste in any place, at any time.

- Please specify activities for public relation/education on municipal solid waste management.

Centro de Informacion Ambiental sponsored by JICA is an ADN facility to this respect.

- Please show us how the experience from the JICA Development study has been utilized(expanded to other schools)

(10) Participation of the private sector

- Please show us the situation of participation of the private sector in waste collection and disposal, e.g. conditions of the contract, amount of contract, etc.

To achieve the goal of collect every non hazardous waste discharge in the National District territory, the ADN has contracted different actors, as it's shown in the table below:

Contracted enterprise	Collection and Transportation fee to Transfer Station	Collection and Transportation fee to Duquesa Landfill	Area under responsibility
For Domestic waste (Unit.: US\$/ton)			
ADN Services	23.50	33.50	Circunscripciones 1 y 3
Disposición Sanitaria Capital	23.50	33.50	Circunscripción 2
For Special Services (US\$/Minimum Requirement/day)			
Independents Contractors	58.00		For domestic waste, Construction debris and branches
For Market Waste (Unit.: US\$/ton)			
SERTEX	20.00		Markets of the National District
For transfer operation (Unid.: US\$/trip)			
ADN Transfer		13.50	Transportation of waste from Transfer Station to Duquesa Landfill
SOINCA		288.00	
Independent Contractors		187.00 to 288.00	

- **Conditions of contract agreements such as the delegation of services and payment provisions for the private sector waste collection, treatment and final disposal activities**

Contracts are available, but regretfully only in spanish.

- **Treatment and collection fees for business and industrial waste**

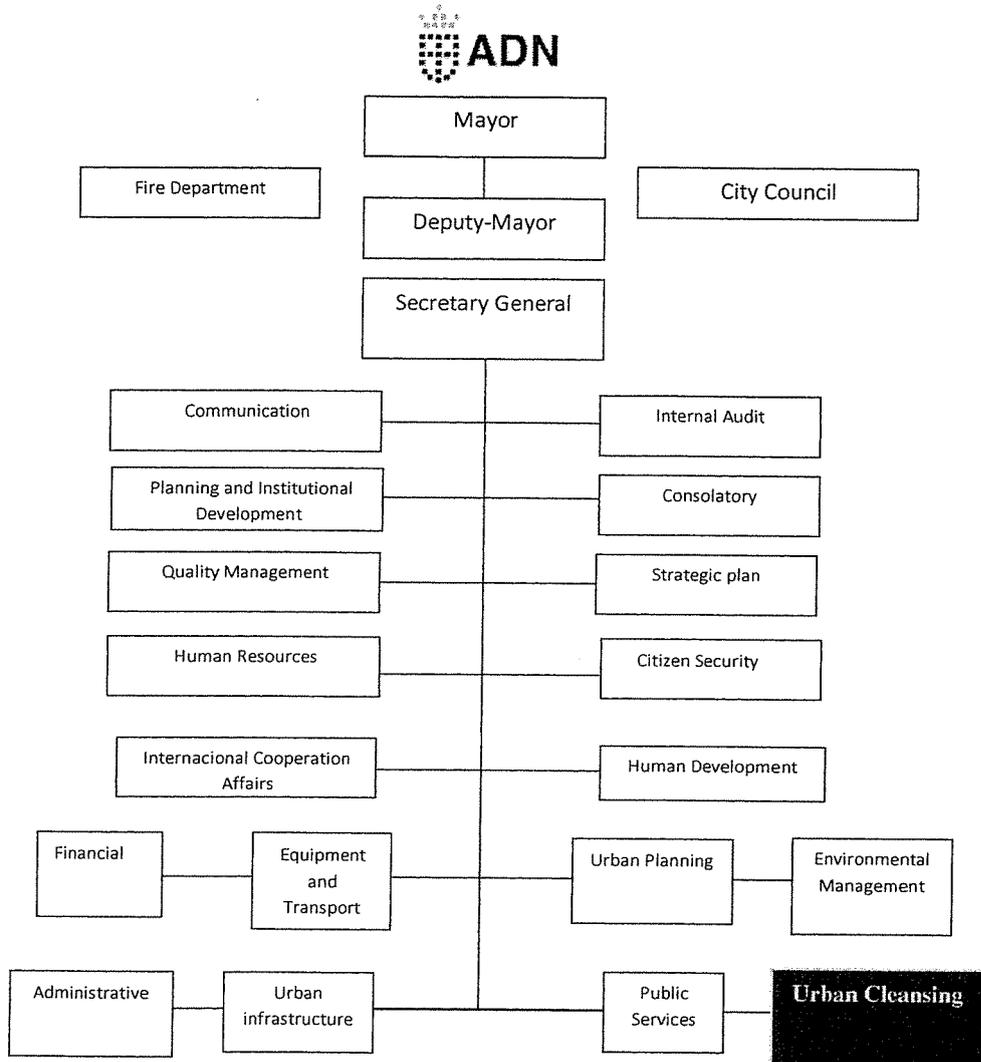
Industrial waste is not in ADN jurisdiction. This type of waste is under the umbrella of the Secretariat of State for Environment and Natural Resources.

- **Privatization promotion rules and performance evaluation systems for services provided by the private sector**

Not available

(11) Organizations

a. Organization chart of the municipality and the section related to solid waste management (including budget and numbers of personnel ranked by categories or professional skills)



b. Responsible department for municipal solid waste management in ADN

The Urban Cleansing Directorate is in charge of non hazardous municipal Solid Waste.

- Role of each department related to solid waste management

Departments are responsible for Planning, Operations, Transfer Station, Maintenance and Center for Promotion of Recycling, all having very well defined roles.

- Decision making procedures for personnel assignment, machinery acquisition and maintenance, service delegation contracts, determination of location for the waste treatment and disposal facilities.

Procedures for resources assignment, delegations, and contracts are well established by the institutional framework.

- System to respond to community claims concerned with waste management issues

There's a coordination between Income Directorate and this Directorate, as they manage the collection fee, bill issuing and claims from citizens.

- GIS applied to waste management system, if any

We do apply GIS control to part of our collection fleet.

c. List of data (collection, discharge, landfill and customer information (satisfaction survey, number of complaints) that ADN has been utilizing for solid waste management

The call center receives every day multiple claims from citizens. An average of twenty cases are addressed via mail to our office, in order to be attended by our territorial response team.

(12) Budget control and Finance

1) Total budget in ADN and budget related to municipal solid waste management (at least 3 years)

Year	Total Budget in ADN	Budget related to municipal Solid Waste Management	Percentage for Solid Waste Management
2007	3,905,342,008	874,943,249	22.4%
2008	3,209,604,704	857,235,826	26.7%

2) Cost (at least 3 years) for solid waste management

- Itemized cost (not so in detail, e.g. personnel cost, maintenance cost, consumption cost, administrative cost, payment for private sector)

ANNEX

3) Income (at least 3 years)

- Charging system (amount of fee, fee collection method)

ANNEX

- Total income from charges (if possible, please specify the amount from resident and commercial generators)

ANNEX

- Collection/billing ratio

40 to 50%

- Financing and subsidiary schemes inherent to the waste management system for local governments

National government provides a subsidy to local governments (8% of total national income) based on population. ADN gets 10% of total.

Question 2. Progress of Action programs

(1) Current progress of action programs in Master plan 2007.

The programs which need to be executed from 2006 through 2008 are as follows. Please specify current progress of each action program.

- **No.101: Establishment of basic rule**

To establish the basic rules, in 2006 it was enacted the Urban cleansing Code (still not 100% accomplished), to define the role of each actor (ADN, Private Sector and Citizens) and also ADN re-negotiate the actuals Contracts with privated collection enterprises.

- **No.201: Strengthening of coordination among directorates of AND**

It is currently very good.

- **No.202: Reform of the urban cleansing department of EDUCD**

A reform is currently being implemented after Maintenance unit was annexed to our Directorate last week.

- **No.301: Categorization and definition of collection services**

It has been categorized and different service providers are in place.

- **No.302: Design of collection routes**

Almost the 100% of the collection route are disigned

- **No.303: Establishment of collection service structure**

Based in findings of Master Plan, it has been structured.

- **No.304: Establishment of contract auditing system**

For contract auditing system, the Urban Cleansing Directorate has established a monitoring unit linked to four related databases.

- **No.305: Expansion of collection data management**

All data is collected and analyzed precisely including GPS observation.

- **No.306: Reform of ADN direct operation**

It is in place at this moment

- **No.307: Communication with citizens**

It is a weakness at this time, but we are improving on that.

- **No.401: Improvement of the current disposal operation**

It is not in our hands, as Duquesa is privately operated.

- **No.501: Generation control**

There is a lot to do on this regard during implementation phase.

- **No.502: Discharge control**

Same as above.

- **No.503: Resource recovery**

Our Centre for Recycling Promotion is a landmark towards this goal.

- **No.601: Increase of income**

Since 2004 incomes have raised slightly every month

- No.602: Reduction of expenditures

Our budget is very much in control as you could see in annexes.

- No.603: Subsidy to the poor

Actually is given, because we collect waste in marginal areas but do not bill households located in this areas.

Question 3. Others

(1) General information

- GDP (at least 3 years)

Per Capita Gross Domestic Product 1991-2007							
Years	Population (Thousands)	Current GDP (Millions of DOP\$)	Current GDP (Per capita DOP\$)	GDP Reference 1991 (Millions of DOP\$)	GDP Reference 1991 (Per capita DOP\$)	Current GDP (Millions of US\$)	Current GDP (Per capita US\$)
1991	6,967.9	123,426.0	17,713.6	123,426.0	17,713.6	9,575.6	1,374.3
1992	7,128.8	144,063.3	20,208.7	136,402.0	19,134.0	11,380.9	1,596.5
1993	7,293.4	162,205.1	22,240.0	146,253.8	20,052.9	12,902.2	1,769.0
1994	7,424.6	182,840.3	24,626.4	149,622.4	20,152.4	14,089.5	1,897.7
1995	7,558.1	211,024.6	27,920.3	157,842.1	20,883.8	15,597.5	2,063.7
1996	7,694.0	233,833.3	30,391.5	169,098.4	21,977.9	17,000.9	2,209.6
1997	7,832.4	274,423.9	35,037.0	182,633.5	23,317.7	19,239.1	2,456.3
1998	7,973.3	311,282.8	39,040.8	195,437.2	24,511.5	20,422.2	2,561.3
1999	8,116.7	343,745.3	42,350.5	208,561.5	25,695.4	21,458.9	2,643.8
2000	8,262.7	388,301.9	46,994.8	220,359.0	26,669.3	23,673.3	2,865.1
2001	8,411.3	415,520.9	49,400.3	224,345.8	26,672.0	24,565.2	2,920.5
2002	8,562.5	463,624.3	54,145.6	237,331.4	27,717.4	24,980.9	2,917.5
2003	8,716.5	617,988.9	70,898.7	236,730.1	27,158.8	20,277.5	2,326.3
2004*	8,873.2	909,036.8	102,447.1	239,835.9	27,029.2	21,817.4	2,458.8
2005*	9,032.8	1,020,002.0	112,922.3	262,051.3	29,011.2	33,808.0	3,742.8
2006*	9,195.2	1,189,801.9	129,393.9	290,015.2	31,539.9	35,890.8	3,903.2
2007*	9,360.5	1,364,210.3	145,740.7	314,592.9	33,608.5	41,245.9	4,406.4

*Preliminary data

Growth Rates (%)							
Years	Population (Thousands)	Current GDP (Millions of DOP\$)	Current GDP (Per capita DOP\$)	GDP Reference 1991 (Millions of DOP\$)	GDP Reference 1991 (Per capita DOP\$)	Current GDP (Millions of US\$)	Current GDP (Per capita US\$)
1992	2.3	16.7	14.1	10.5	8.0	18.9	16.2
1993	2.3	12.6	10.1	7.2	4.8	13.4	10.8
1994	1.8	12.7	10.7	2.3	0.5	9.2	7.3
1995	1.8	15.4	13.4	5.5	3.6	10.7	8.7
1996	1.8	10.8	8.9	7.1	5.2	9.0	7.1
1997	1.8	17.4	15.3	8.0	6.1	13.2	11.2
1998	1.8	13.4	11.4	7.0	5.1	6.1	4.3
1999	1.8	10.4	8.5	6.7	4.8	5.1	3.2
2000	1.8	13.0	11.0	5.7	3.8	10.3	8.4
2001	1.8	7.0	5.1	1.8	0.0	3.8	1.9
2002	1.8	11.6	9.6	5.8	3.9	1.7	(0.1)
2003	1.8	33.3	30.9	(0.3)	(2.0)	(18.8)	(20.3)
2004*	1.8	47.1	44.5	1.3	(0.5)	7.6	5.7
2005*	1.8	12.2	10.2	9.3	7.3	55.0	52.2
2006*	1.8	16.6	14.6	10.7	8.7	6.2	4.3
2007*	1.8	14.7	12.6	8.5	6.6	14.9	12.9

*Preliminary data

- Distribution of the employed EAP(Economically Active Population)(recent data)

CENTRAL BANK OF DOMINICAN REPUBLIC							
NATIONAL ACCOUNTS AND ECONOMICS STATISTICS DEPARTMENT							
POPULATION 10 YEARS AND OVER BY CONDITION OF ACTIVITY BY GENDER AND ECONOMIC SECTOR							
TOTAL COUNTRY, APRIL 2008 ^{e/}							
SECTOR	PET ^{1/}	PEA ^{2/}	EMPLOYED ^{3/}	UNEMPLOYED ^{4/}			INACTIVES ^{5/}
				TOTAL	DISMISSED	NEW	
TOTAL	7,628,557	4,246,171	3,649,901	596,270	260,115	336,155	3,382,386
AGRICULTURE, LIVESTOCK, FISHING AND FORESTRY	526,614	526,614	516,081	10,533	10,533	0	0
MINING	9,305	9,305	8,992	313	313	0	0
MANUFACTURING	565,049	565,049	501,178	63,871	63,871	0	0
ELECTRICITY, GAS AND WATER	33,376	33,376	31,522	1,854	1,854	0	0
CONSTRUCTION	260,382	260,382	250,585	9,797	9,797	0	0
WHOLESALE AND RETAIL TRADE	825,243	825,243	773,692	51,551	51,551	0	0
HOTELS, BARS AND RESTAURANTS	243,412	243,412	228,477	14,935	14,935	0	0
TRANSPORTATION AND COMMUNICATIONS	286,210	286,210	271,951	14,259	14,259	0	0
FINANCIAL SERVICES	82,818	82,818	77,249	5,569	5,569	0	0
PUBLIC ADMINISTRATION AND DEFENSE	166,414	166,414	156,794	9,620	9,620	0	0
OTHER SERVICES	911,193	911,193	833,380	77,813	77,813	0	0
POPULATION WITHOUT SECTOR	3,718,541	336,155	0	336,155	0	336,155	3,382,386
TOTAL MALE	3,795,384	2,547,846	2,320,311	227,535	110,198	117,337	1,247,538
TOTAL FEMALE	3,833,173	1,698,325	1,329,590	368,735	149,917	218,818	2,134,848
SOURCE: NATIONAL LABOR FORCE SURVEY - APRIL 2008							
^{e/} Adjusted estimation based on the result of the official projection published by ONIPLAN in 1999.							
^{f/} Population 10 years and over.							

- Composition of GDP and employed population(update)

Annex

- Exchange rate between RD\$ and US(at least 3 years)

Annex

- Interest rates (at least 3 years)

Annex

- Literacy rate (recent data)

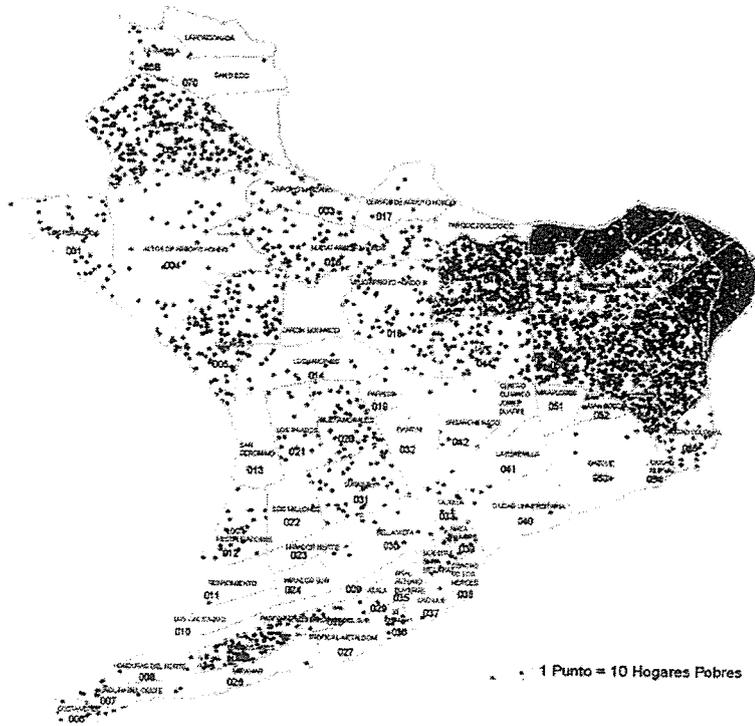
Area	Population	Able to read and write		Unable to read and write	
	Total	Population	%	Population	%
Country	7,977,328	6,235,154	78.2	1,742,174	21.8
National District Region	2,541,188	2,119,920	83.4	420,268	16.6
National District	859,720	738,207	85.9	121,513	14.1

Source: VIII National Census of Population and Housing 2002, Statistic National Office (ONE)

- Distribution of population in ADN

Annex

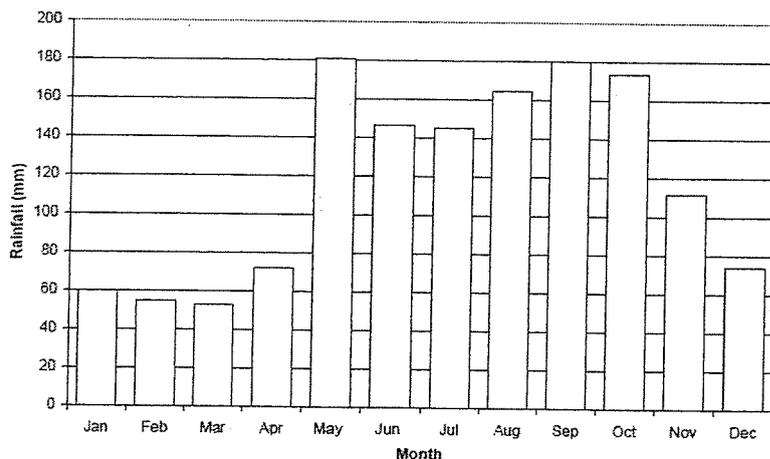
- Population densities by districts with information on the physical distribution of high and low-income population in the target area

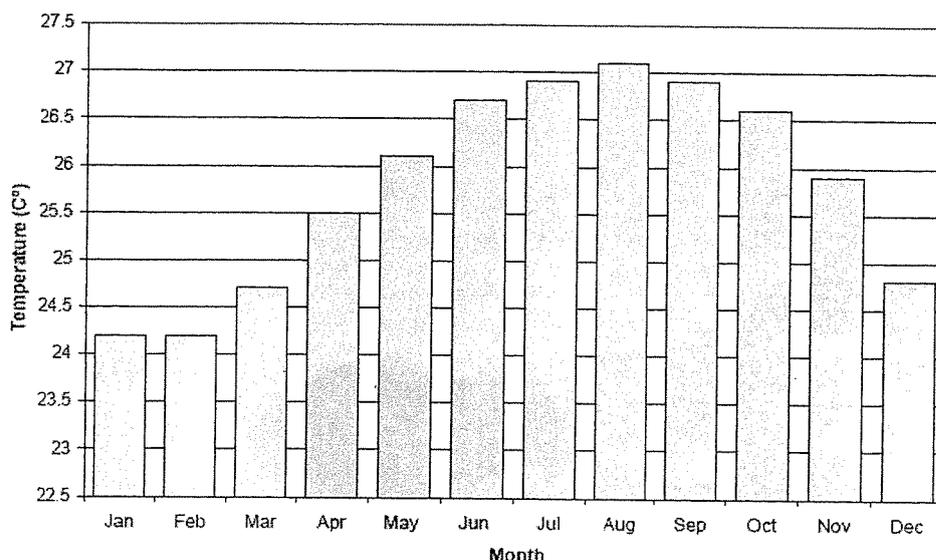


Low Income population distribution

- Meteorological data (temperature, precipitation).

Temperature and rainfall records for Santo Domingo Station, National District (1900-2008) show that the months with highest rainfall go from May to November, whereas the months with lowest rainfall go from December to April. Annual average rainfall is 1416 mm/year and annual average temperature is 25.8° C.





(2) Laws and Regulation

- Laws and regulation related to environmental issue (e.g. Environmental Impact assessment)

- *Ley General de Medio Ambiente y Recursos Naturales, (General Law of Environmental and Natural Resources) No. 64-00. Article 19, 24, 26, Article 28, Article 29*
- *Norma para la Gestión Ambiental de Desechos Radiactivos (Norm for Environmental Management of Radioactive Waste)*

- Laws and regulation related to municipal solid management

- *Ley General de Medio Ambiente y Recursos Naturales, (General Law of Environmental and Natural Resources) No. 64-00. Article 19, 24, 26, Article 28, Article 29*
- *Ley No.120 (Gaceta Oficial No.10033 del 31/12/1999), (Law No.120, 12/31/1999), Articles 1 to 7*
- *Norma para la Gestión Ambiental de Residuos Sólidos No Peligrosos (Norm for Environmental Management of Non Hazardous Solid Waste)*
- *Norma Ambiental para la Gestión Integral de Desechos Infecciosos (Environmental Norm for Integral Management of Infectious Waste)*

- Legislation concerned to land condemnation procedures

???

- Relevant municipal ordinances

- *Reglamento Municipal de Aseo (Municipal Cleansing Code), which establishes and regulates the Non-Hazardous Municipal Solid Waste Management Service at the territory of the National District Municipality.*

(3) Policy, strategies, programs and plans

- Please describe how policy on solid waste management in ADN was changed by the result of the presidential election in June, 2008.

There is not any influence on this regard.

- Current national policy and strategy in respect of waste management.

Not available at this point in time.

- **Local government commitments in respect of waste collection, treatment and disposal activities, including short/mid/long-term programs and plans**

Full integration, as it is based in application of our strategic plan.

(4) Educational and training approaches

- **Training programs and their outputs/effectiveness in respect of waste management**

Some improvements have been achieved, but not sufficient yet.

- **Situation of environmental education in respect of waste management. Approaches at basic schools and community levels; existence of educational materials and usage of communication media. Evaluation of their effects on waste dumping in Ozama river.**

This is to be discussed with environmental education team at Centro de Information Ambiental, sponsored by JICA.

