

# *Minister's Message*



The St. Lucia Solid Waste Management Authority has over the last decade made numerous/successful strides in the overall improvement to the management of solid waste on the island. During that period, the solid waste management infrastructure for the island was improved and waste collection and disposal services were provided throughout the island. Much of the achievements though have been attained through the dedication and commitment of the staff in conjunction with many stakeholders and St. Lucians who have demonstrated the commitment to protect their environment.

While we have made good progress and now enjoy a cleaner environment, littering and indiscriminate dumping persist. This is clearly an unacceptable situation. It is important that all generators pay their part in ensuring that waste is managed and disposed of in a way which minimizes the negative health and environmental effects. If every generator of waste on the island ensures that every bit of waste generated is properly disposed we will truly enjoy a clean environment and of course save millions of dollars.

Education therefore is fundamental to ensuring that waste management services and practices are maintained at an acceptable level. We must ensure that the St. Lucia Solid Waste management Authority continues to collaborate with its partners and

stakeholders. We need to continue to reach out to households, schools, non-governmental organizations, the business community etc. and promote increased stewardship for our environment. We need to build on successful education programmes to ensure that St. Lucians remain engaged in activities that promote proper waste management. To achieve this, education and awareness initiatives must be sustained in order that the populace is not only aware and knowledgeable about waste management issues but problem solving and decision-making skills with respect to waste management are enhanced thereby empowering them to make informed and responsible decisions with respect to the adherence to minimum operational standards that do not compromise the environment.

If we do not manage our wastes properly today, years down the road, these wastes will have adverse effects on our environment and our people. This could adversely affect our economic and social developments both directly and indirectly. For example, poorly managed wastes can have negative effects on tourism, particularly its association with health warning about infectious and vector-borne diseases. There is also the potential for contamination of food supplies, which can have crippling impacts on local and international markets or revenues from export crops. There are numerous health and environmental hazards that arise when wastes are poorly managed and disposed.

Given our development in waste management, our thrust at this time should be to ensure waste generation is minimized wherever possible, and wherever it does occur we must encourage its reuse, recycling or recovery of energy, in order to make waste itself a resource. We can't just keep digging bigger holes and filling them with our wastes. We need therefore to consider reducing our reliance on landfills and instead reduce the amount of waste we produce; reuse where we can; and recycle and compost as much as possible. Whatever actions we take today we do for ourselves and for our communities. But more importantly, we do it for our children and for their children.

I take this opportunity to call upon the business community to do more to ensure that there is greater stewardship for waste generated by products which they manufacture or

supply. If you do what is required to minimize the impact of your product on the environment the benefits though not immediately obvious will be significant. It is important that you improve your stewardship in this regard as this is important to support my governments' effort at increased tourism development in the island as well as health for all. It certainly cannot be business as usual for we must all play our part if our country is to prosper.

Finally, my government is committed to playing a lead role in driving forward the programs and policies required for improved waste management. For the government considers solid waste to be a very important issue and is seriously committed to protecting health and the quality of life in St. Lucia as all St. Lucians deserve to live in safe, clean, livable communities. However, an important ingredient to this mix is the need for a partnership approach in addressing the issues. Government efforts alone will not be enough. The support of the private sector as well as the participation of residents and visitors alike is important to sustain a quality living environment.

I take this opportunity to congratulate the Board, Management and Staff of the Saint Lucia Solid Waste Management Authority for a job well done particularly with regard to their stewardship in utilizing the resources of the state and reporting to the various stakeholders in a timely manner.

## *Chairperson's Message*



For the St. Lucia Solid Waste Management Authority, the past financial year was not without its share of challenges, opportunities and successes. The major challenge was the management of used tyres at both the Deglos Sanitary Landfill and the Vieux-Fort Solid Waste Management Facility. Since the breakdown of the tyre shredders the Authority has operated without the equipment as efforts to procure a new one have been unsuccessful.

Under the European Union Special Framework of Assistance (EU-SFA) program, the Authority was able to undertake the following projects:

1. Private Sector Capacity Development and Improved Public Awareness and Participation in Used Lead Acid Battery Recovery
2. Consultation for the Development of a Beverage Containers' Bill
3. Solid Waste Improvement and Capacity Development Programmes in La Clery and Coin de Lance, Palmiste and Baron's Drive in Soufriere
4. Review of the Institutional and Organizational Arrangements for Solid Waste Management

5. Procurement of Waste Oil Storage Containers

6. Procurement of Flue Gas Monitoring Equipment

Those projects sought to address waste management issues through public education, capacity development and infrastructural development.

During the past year, the Authority also welcomed two new Directors: Mr. Lambert Nelson, Minister's Appointee and Mr. Felix St. Hill, Deputy Chairperson and Permanent Secretary Ag., Ministry of Health. They both bring knowledge and experience that could significantly enhance the capacity of the present team of directors.

The Authority continued to provide the waste management services necessary to enhance waste collection and disposal on the island. Households and government institutions continued to receive a collection service through the private waste collection contractors while both the Deglos Sanitary Landfill and the Vieux-Fort Solid Waste Management Facility continued to receive all solid waste collected. Biomedical waste collection continued to be offered to government health care establishments throughout the island along with some private sector health care establishments.

Over the years however, we have made good progress in managing waste disposal but efforts at waste reduction have been minimal. Additionally, waste management policies have tended to focus on end of pipe solutions by dealing with disposal rather than prevention. At this venture we must recognize that the wastes that we generate are different from the kinds of waste that we generated twenty (20) years ago. This is due to the new products and production processes that have emerged over the years. As consumption patterns continue to change and the public expectations evolve with respect to the waste management systems employed so must the way we approach the waste management systems employed given the fact that the waste management sector plays a critical role in making our country a healthy place to work, live and do business. Reducing waste therefore cannot succeed without a system that manages waste from the point of generation through to disposal. As such a more effective, integrated approach to material and resource efficiency is needed at every stage of

production and consumption. What's most important is working in partnership to find a lasting, workable solution for everyone.

Public Education continued to be fundamental to the journey towards the improvement of waste management on the island. Education and awareness programmes targeted various sectors all in an effort to empowering the public with the necessary skills to make informed decisions and take responsible action. Additionally the Authority also collaborated with its partners in an effort to attain its educational objectives.

Now that my tenure as chairperson of the Board of Directors has come to an end since I proceed on retirement as of the end of this financial year, I wish to inform you that It has truly been an honour for me to serve as chairperson of the Board of Directors – an experience which has been very rewarding for me. As always I am grateful for the advice and commitment provided by the Board of Directors. I am also grateful to the many organizations who have contributed to our work including voluntary, community and business sectors. I would especially like to recognize the enormous contribution of the employees of the Authority and thank them for their commitment and dedication to the cause of waste management on the island. It has been a privilege to work will all of you.

# *General Manager's Message*



When you speak of the St Lucia Solid Waste Management Authority we would like to think, that you speak of us as an organisation that stands for environmental stewardship, excellent customer service, and active participation in community life in Saint Lucia. We the people, who work at the Authority, are mindful of our responsibility to deliver through our Contractors a consistent and good quality service to the households and governmental agencies which we serve. We are however conscious, that more can be done especially in the areas of waste diversion, reuse and recycling. We take this opportunity to inform you that we have and will continue to embrace and seek avenues to further this objective.

We also recognise there is a need for all agencies involved in waste management to develop and adhere to standards, which will ensure that waste is managed in a manner that does not compromise health, the environment and our vital tourism industry.

The progress the Authority continues to make, year after year, is gratifying because it means we are making Saint Lucia a cleaner and safer place to live. However we will

feel even better if all Saint Lucians play their part and develop a tolerance for no less than excellent waste management services and disposal practices. Saint Lucians must demand quality service and accountability from all agencies engaged in waste management as this service is germane to the sustainability of our tourism industry, the health of our citizen and the patrimony of future generation.

The Authority recognises that its staff and Contractors have played and continue to play a pivotal role in its success. We encourage our employees to think, to grow, to contribute, to become leaders and everyday heroes. We also embrace our Contractors' staff by ensuring that they work in a safe environment and helping develop the necessary skills required to provide a high quality and courteous service.

The Authority is very appreciative of the support that this agency has received from the citizens, corporate benefactors, and governmental agencies. When you stand alongside us and stretch out a helping hand you make us stronger and we thank you for your support and continued confidence.

The next few years promises to be a challenging time as we seek to embrace and adapt to changes in waste management technology and a rapidly changing global environment. We are dedicated, motivated and empowered to make a difference as every person in every position throughout our organization plays a role in serving our customers, keeping communities clean, and protecting the environment. Together with you and our Contractors, this team of nearly forty (40) employees and the Board of Directors will drive our success and in so doing protect our beautiful island.

# ADMINISTRATION DEPARTMENT

## **OVERVIEW**

The Administration Department with its dedicated staff continues to ensure that the Authority meets its goal through its efficient support to the various departments and its effective information system.

This department for the past financial year has been involved in the indentifying of the various stakeholders and communicating with them in an effort to host national consultations, such as the Institutional Review, Used Lead Acid Batteries, Returnable Container Bill and Biomedical Waste Management Consultations.

The Administration Department is also involved in the frequent updating of the Authority's website to ensure that the wider public is well informed of all events, new developments and information with respect to waste management on the island.

Our newly developed waste management plan for public events as well as waste management guidelines for developments have been posted on the website for public access. The Operations and Education sections of our 2007 – 2008 Annual Report is also available on the website to acquaint the public with the Authority's operations and the avenues used to inform and educate the general public in order to achieve our mandate.

The Authority is currently in the process of developing an internal database system which will enable its staff from Head Office, the Deglos Sanitary Landfill and the Vieux Fort Solid Waste Management Facility to share information of mutual interest and to access the relevant forms and reports from their respective locations.

An Emergency Management & Recovery Plan has been drafted for Head Office, the Deglos Sanitary Landfill and the Vieux Solid Waste Management Facility respectively. This was done in an effort to ensure the safety of staff and to put measures in place for recovery in the event of fires or Act of God Disasters.

## **WORKPLAN SESSIONS**

The Authority continues to engage its management, supervisory and administrative staff in Workplan sessions every quarter to evaluate the Authority's performance throughout the year and to set new goals for the upcoming year.

## HUMAN RESOURCE

### *Training*

Staff participated in the following Training programme during the period under review

<b>Name &amp; Programme</b>	<b>Institution/Facilitator</b>
<b>Regional Training Workshop on PCBs and POPs Wastes</b>	
Mr. Laurianus Lesfloris	Stockholm Convention, Jamaica
<b>Electronic &amp; Battery Recycling</b>	
Mrs. Geraldine Lendor-Gabriel	International Congress & Marketing, Canada
<b>Regional Consultation on an Awareness Strategy for Protected Areas</b>	
Ms. Emlyn Jean	Organization of Eastern Caribbean States (Environmental & Sustainable Development Unit)
<b>Local Training Workshops</b>	
<b>First Aid &amp; CPR</b>	
Tashika Hippolyte	St. Lucia Red Cross
Davis Mathurin	
Selma Ferdinand	
Remy Thomas	
Gilbert Gustave	
Joseph Jules	
Sylvester George	
<b>Reaching Out to Litter Recyclers</b>	
Gem Hutchinson	SWANA (Web Training)
<b>Communication Skills</b>	
Arlett Monrose-Ruiz	Ministry of Public Service & Human Resource Department
<b>Middle Management/Leaders</b>	
Emlyn Jean	Ministry of Public Service & Human Resource Department
<b>Camcorder Training</b>	
Edgarfue Felicite	Annius Communications
Marie Dalsan	
Emlyn Jean	
Tashika Hippolyte	
Gem Hutchinson	
Wendy Eristhee	
Dave Augustin	

## Participation in Local Workshops, Seminars and Consultations

During the period under review, staff of the Authority participated in the following:

<b>Date</b>	<b>Name</b>	<b>Type</b>	<b>Institution/Agency</b>
Feb., 08	Tashika Hippolyte	Understanding National Insurance (A Key to a Successful Partnership)	National Insurance Corporation
Apr., 08	Wendy Eristhee	KA P Session	OECS
	Gem Hutchinson		
Apr., 08	Dave Augustin	Biodiversity Working Group Session	Ministry of Agriculture
Apr., 08	Gem Hutchinson	Oil Spill Workshop	Hess Oils
Apr., 08	Dave Augustin	Integrated Coastal Zone Action Plan	Ministry of Sustainable Development
Jun., 08	Gem Hutchinson	Breaking the Language Barrier "Outreach to Diverse Communities"	SWANA
Jun., 08	Wendy Eristhee	Biodiversity Bill	Ministry of Agriculture
Jun., 08	Edgarfue Felicite	Idea Swapping for Community Outreach	SWANA
	Gem Hutchinson		
Jul., 08	Wendy Eristhee	Draft Forest Policy & Draft Forest Act	Ministry of Agriculture
Jul., 08	Wendy Eristhee	National Action Plan on Sustainable Land Management	
Sept., 08	Dave Augustin	EU Biodiversity Management	
Oct., 08	Gem Hutchinson	Effective Supervision	St. Lucia Employers' Federation
	Dave Augustin		
	Arlett Monroe-Ruiz		

## ***Facilitation of Human Resource Development***

The Authority facilitates staff participation in various courses by giving time off to enable their participation in courses, seminars or sitting of examinations.

<b>Name</b>	<b>Programme</b>	<b>Institution</b>
Tashika Hippolyte	Bachelor of Business Administration	Monroe College
Gem Hutchinson	Master of Business Administration	University of Leicester
Marie Dalsan	MSc. in Project Management	Robert Gordon University
Davis Mathurin	BSc. in Public Health	Monroe College

## ***New Appointments***

The Authority recruited the following staff during the period of review:

<b>Name</b>	<b>Position &amp; Location</b>	<b>Start Date</b>
Boyd Carasco	Weighbridge Attendant	July, 2008
Nicholas Louis	Landscaper	Nov., 2008
Rupert Hippolyte	Tire Shredder Operator	April, 2009

## ***Resignations***

During the period under review the following employees resigned their positions.

<b>Name</b>	<b>Position</b>	<b>Location</b>
Magdalene Eugene	Weighbridge Attendant	Deglos
Dave Augustin	Enforcement Officer	Vieux Fort
Boyd Carasco	Weighbridge Attendant	Vieux Fort

# **EDUCATION DEPARTMENT**

## **Overview**

An educational programme is fundamental to the mandate of the St. Lucia Solid Waste Management Authority as it serves to increase public awareness and knowledge about waste management issues and problems thus empowering the public with the necessary skills to make informed decisions and take responsible action. In keeping with the mandate then, environmental education continued to be an integral part of the journey towards improved waste management practices on the island. In an effort to attain the educational component of its mandate the St. Lucia Solid Waste Management Authority in collaboration with its partners facilitated the following efforts to promote proper waste management practices.

- Annual National Cleanup Activity
- Annual National Antilitter Schools' March
- Facilitation of community cleanup activities
- Production of quarterly newsletter entitled 'SLSWMA NEWS'
- Production of public service announcements
- Participation during national radio programmes
- Provision of lectures to various publics
- Facilitation of community meetings
- Tours of disposal sites
- 24 hour hotline for public complaints
- Letter/flyer drop-offs to individual households
- Use of community crier

Efforts undertaken in fostering public awareness during the financial year April 2008 – March 2009 included:

### **School Presentations**

School presentations were conducted upon request. Twenty six (26) presentations were conducted at twenty two (23) schools with a total of One thousand, eight hundred and fifty-five (1855) participants (Table 1). Issues discussed included basic waste management practices, the three Rs, waste minimization, impacts of poor waste management, composting etc.

**Table 1: School Presentations**

<b>School Name</b>	<b>No. of Presentations</b>	<b>No. of Participants</b>
R.C. Boys' Infant School	1	70
La Croix Maingot Combined School	2	100
Sir Arthur Lewis Community College	1	30
Tapion Private School	1	130
Lady Gordon Opportunity Centre	1	25
St. Mary's College	1	40
Leon Hess Comprehensive Secondary School	1	70
Monchy Combined School	1	70
Babonneau Secondary School	1	10
Ti Rocher Combined School	1	100
Pierrot Combined School	1	362
Blanchard Combined School	2	167
Micoud Infant School	1	70
Richfond Combined School	1	60
Vieux-Fort Primary School	2	125
Grande Riviere Secondary School	1	75
Fond St. Jacques Combined School	1	28
Delcer Combined School	1	24
Reunion Combined School	2	199
Choiseul Secondary School	1	15
Canaries Combined School	1	40
Soufriere Primary School	1	24
Piaye Secondary School	1	21
<b>TOTAL</b>	<b>27</b>	<b>1780</b>

**Public/Private Sector Presentations**

Five (5) presentations were conducted to private/public sector interests resulting in contact with one hundred and sixty (160) persons (Table 2). Presentations focused on

proper waste management practices, impacts of poor waste management, Tin Tin the mascot of the Authority, waste management at public events etc.

**Table 2: Public/Private Sector Presentations**

<b>Public/Private Sector Name</b>	<b>No. of Presentations</b>	<b>No. of Participants</b>
Holy Family Children's Home	2	20
Department of Youth & Sports: 2008 National Summer Camp, Babonneau	1	100
Piaye Progressive Youth Group	1	20
Vendors, Soufriere (Soufriere Jazz)	1	20
<b>TOTAL</b>	<b>5</b>	<b>160</b>

### **Community Meetings**

One hundred and twenty-four (124) persons attended the seven (7) community meeting organized during the period under review (Table 3). While community meetings are critical in the exchange of information among stakeholders and arriving at amicable solutions to waste management issues they are usually poorly attended.

**Table 3: Community Meetings**

<b>Community Name</b>	<b>No. of Meetings</b>	<b>No. of Participants</b>
Banannes Bay	1	15
La Clery	1	14
Morne du Don	1	1
Dennerly	1	45
Bon Aire	1	14
Palmiste, Soufriere	1	20
Piaye Village	1	15
<b>TOTAL</b>	<b>7</b>	<b>124</b>

## Workshops

Three (3) workshops targeted at children of Micoud, Gros-Islet and Baron's Drive, Soufriere were organized and attended by one hundred and fifty-seven (157) persons (Table 4). The workshops sought to sensitize and develop awareness among the children with respect to solid waste management at the individual, household, community and national level. Issues of solid waste management were highlighted in the form of expressive writing, song, drama, art & craft, dance, tours of communities as well as a tour of the Deglos Sanitary Landfill and an organic farm. Participants also engaged in community cleanup activities. In Micoud, participants undertook an antilitter march through the village of Micoud.

The SLSWMA also collaborated with Options Designs, organizers of La Clery Summer Fun, a summer workshop organized for children of the La Clery Community. Participants engaged in discussions which focused on proper waste management practices, waste reuse and reduction and Tin Tin the Mascot of the SLSWMA. Participants also engaged in a community cleanup activity and visit to the Deglos Sanitary Landfill.

**Table 4: Workshops Held**

<b>Workshop Name</b>	<b>Group Name</b>	<b>No. of Workshops</b>	<b>No. of Participants</b>
Solid Waste Management	Micoud	1	50
Solid Waste Management	Gros-Islet	1	55
Solid Waste Management	Baron's Drive, Soufriere	1	52
Solid Waste Management	La Clery Summer Fun in collaboration with SLSWMA	1	150
	<b>Total</b>	<b>4</b>	<b>307</b>

## Letter/Flyer Drop-offs

In an attempt to reach individual households, letters/flyers were delivered to individual homes informing households of the issues and the corrective action. During the period under review one thousand and seventy one (1071) households in forty-two (42) communities were targeted (Table 5).

**Table 5: Letter/Flyer Drop-offs**

<b>Brief Description</b>	<b>Community Name</b>	<b>No. Distributed</b>
Waste Management Practices	Cemetery Hill	25
Change in methodology for collection service	La Clery	30
Waste Management Practices	Cemetery Hill/Hospital Road	30
Waste Management Practices	Dierriere Fort	30
Waste Management Practices	La Croix Maingot	40
Waste Management Practices & Bin Relocation	Bexon	40
Waste Management Practices & Bin Removal	Sans Souci	15
Waste Management Practices	Bexon	20
Waste Management Practices by business houses	Cadet Street, Castries	15
Bin Removal	Marchand	40
Proper Waste Disposal	Marigot	25
Relocation of Bin/Bin Removal	La Clery/Active Hill	75
Bin Removal	Coubaril	10
Bin Removal	New Village	25
Bin Removal	L'Anse Road/Sans Souci	25
Management of Green Waste	Rodney Bay	30
Change in collection service	Carellie	50
Waste Collection Point	Marisule	15
Bin Placement	Beausejour	10
Bin Removal	Bella Rosa	20
Change in collection service	Morne Serpent	30
Waste Management Practices	Bois D'Orange	20
Information on Collection Days	Babonneau	20
Information on Collection Days	Gros-Islet	10
Change in methodology for collection	Bois D'Orange	20

service		
Collection Days	Ravine Chabot	10
Collection Days	Bonne Terre Gardens	20
Waste Collection Point	Corinth	20
Bin Removal	Stony Hill	15
Bin Removal	Degazon	20
Change in methodology for collection service	Cedar Heights/Caye Mange	30
Community Meeting	Bon Aire	15
Community Meeting	Morne du Don	50
Interruption in waste collection service	Morne du Don	50
Use of Communal Bins	Blanchard	22
Bin Removal	Louisville, Vieux-Fort	25
Waste management practices	Martin Luther King Street, Laborie	12
Town Hall Meeting	Baron's Drive	30
Illegal Dumping	Flora Villa, Canaries	30
Community Meeting	Piaye	13
Illegal Dumping along Southern Cliff of Piaye Beach	Piaye	30
Bin Removal	Morne Jacque, Choiseul	9
<b>TOTAL</b>		<b>1071</b>

### **Tours: Deglos Sanitary Landfill & Vieux-Fort Solid Waste Management Facility**

The Deglos Sanitary Landfill and the Vieux-Fort Solid Waste Management Facility continued to serve as educational landmarks for schools and private and public sector entities. Approximately three hundred and seventy seven (377) persons were hosted during twelve (12) tours conducted at the Deglos Sanitary Landfill while one hundred and twenty (120) persons were hosted at the Vieux-Fort Solid Waste Management

Facility during five (5) tours (Table 6). Tours of the facility provided participants with first-hand knowledge of the management of the various waste streams received at the site.

**Table 6: Tours: Deglos Sanitary Landfill & Vieux-Fort Solid Waste Management Facility**

**Deglos Sanitary Landfill**

<b>Group Name</b>	<b>No. of Tours</b>	<b>No. of Participants</b>
Waste Management Workshop – Micoud	1	52
Dame Pearlette Louisy Primary School	1	18
Saint Mary’s College	1	31
Waste Management Workshop – Gros-Islet	1	60
La Clery Summer Fun	1	70
Participants, Litter Symposium	1	44
Representative of Ministry of Consumer Affairs along with representative from Dominica	1	2
Anse La Raye Infant School	1	14
Ti Rocher Primary School	1	15
Bexon Infant School	1	49
Carnival Cruise Line	1	1
Aux Lyon Combined School	1	21
<b>TOTAL</b>	<b>12</b>	<b>377</b>

**Vieux-Fort Solid Waste Management Facility**

<b>Group Name</b>	<b>No. of Tours</b>	<b>No. of Participants</b>
Micoud Infant School	1	47
Anse La Raye Infant School	1	14
Blanchard Combined School	1	12
National Skills Development Centre/Choiseul Branch	1	10
Piaye Combined School	1	37
<b>TOTAL</b>	<b>5</b>	<b>120</b>

**Newsletter**

The Authority continued the production of its quarterly newsletter, SLSWMA News (Table 7). The newsletter featured various activities undertaken by the Authority as well as articles on proper waste management practices. Newsletters were distributed locally, regionally and internationally.

**Table 7: SLSWMA News**

<b>Newsletters</b>	<b>No. Printed</b>	<b>No. Distributed</b>
SLSWMA News (April – June)	500	500
SLSWMA News (July – Sept)	500	500
SLSWMA News (Oct – Dec)	500	500
SLSWMA News (Jan – Mar)	500	500
<b>TOTAL</b>	<b>2000</b>	<b>2000</b>

### **Press Releases**

Eighteen (18) press releases highlighting various waste management issues or activities of the Authority were issued during the period under review (table 8). Press releases were prepared as the need arose and issued to all media houses.

**Table 8: Press Releases**

<b>Month</b>	<b>Brief Description</b>
April 08	Waste Management Workshop – Micoud
April 08	Banannes Bay Clean-up Activity
April 08	Rodney Bay Clean-up Activity
June 08	Returnable Containers Bill – Stakeholder Consultation
July 08	Review of Institutional Arrangements
August 08	Island-wide Litter Survey
August 08	Litter Symposium
August 08	Waste Management Workshops
September 08	Vandalism of Bins in Marchand
October 08	Anti-Litter Schools' March 2008
October 08	Anti-litter Schools' March 2008
October 08	National Cleanup Activity 2008
November 08	National Cleanup Activity 2008
November 08	National Cleanup Activity 2008
November 08	Anti-litter Schools' March 2008
December 08	Management of Waste During Christmas Season
January 09	Anglican School Rat Infestation
March 09	NCUA Awards

<b>Total</b>	<b>18</b>
--------------	-----------

## Radio and Television Interviews

Thirty six (36) radio and television interviews were conducted highlighting various waste management issues or activities of the Authority (Table 9). These were conducted by radio and television news reporters after receipt of press releases or through their own initiative.

**Table 9: Radio & Television Interviews**

<b>Medium</b>	<b>Number</b>
Television	25
Radio	11
<b>Total</b>	<b>36</b>

## Public Service Announcements (radio)

Fifteen (15) radio public service announcements (English & Creole) were aired on three (3) radio stations during the period under review (Table 10). PSAs encouraged proper management of waste oil and used lead acid batteries. Two PSAs informed the public of the requirements for hosting public events while the others encouraged good waste management practices.

**Table 10: Public Service Announcements (radio)**

<b>Title</b>	
Waste Oil Management	2
Waste Management at Public Events	2
Eradication of Rats	2
General Waste Management	2
Used Lead Acid Batteries	3
Complaints	1
Christmas Jingle	1
Bulky Waste	1
Monkey Business	1

<b>Total</b>	<b>15</b>
--------------	-----------

## Public Service Announcements (television)

Fourteen (14) television public service announcements were produced and aired on three (3) television stations (Table 11). PSAs encouraged proper management of waste oil and used lead acid batteries. Two PSAs informed the public of the requirements for hosting public events while the others encouraged good waste management practices.

**Table 11: Public Service Announcements (television)**

<b>Title</b>	
Eradicate Rats	2
Waste Oil Management	2
Waste Management at Public Events	2
General Waste Management	2
Used Lead Acid Batteries	2
Complaints	1
Christmas Jingle	1
Bulky Waste	1
Monkey Business	1
<b>Total</b>	<b>14</b>

## Community Crier

Having recognized that communication methods which allow direct contact with the community resulted in a greater number of persons receiving the information, the Authority continued to engage the services of a community crier to assist with the dissemination of information to the public. The community crier was utilized in four communities during the period under review (Table 12).

**Table 12: Community Crier**

<b>Brief Description</b>	<b>Community</b>
Change in Methodology for collection service	Nickle Hill
Bin Removal	Sans Souci
Bin Removal & Waste Management Practices	Marchand, Entrepot
Waste Management Practices	La Clery

Town Hall Meeting	Palmiste and Baron's Drive
Bin Removal	Sans Souci
Bin Removal/Waste Management Practices	Marchand/Entrepot
Waste Management Practices	La Clery
Town Hall Meeting	Palmiste/Baron's Drive
Bin Removal	La Clery/Active Hill
Bin Removal	L'Anse Road
Bin Removal	New Village
<b>Total</b>	<b>12</b>

## Talk Shows

Officers of the Authority were featured on various talk shows along with representatives of other agencies (Table 13). They were interviewed about various environmental and waste management issues.

**Table 13: Talk Shows**

<b>Talk Show</b>	<b>Brief Description</b>
Saturday Radio Show	Waste Management at Public Events
The Agenda	St. Lucia Simply Beautiful
The Agenda	Waste Management Issues
The Agenda	Waste Management Issues
What Makes Me Mad	Dengue Fever & Waste Management in collaboration with the Ministry of Health
Direction	Dengue Fever & Waste Management in collaboration with the Ministry of Health
The Agenda	Dengue Fever & Waste Management in collaboration with the Ministry of Health
Juke Bois	Dengue Fever & Waste Management in collaboration with the Ministry of Health
Direction	Waste Management in the City of Castries
<b>Total</b>	<b>9</b>

## Community Cleanup Activities

Twenty-nine (29) communities engaged in community cleanup activities (Table 14). Cleanup activities undertaken were geared towards clearing of drains, collection of litter and debushing of roadsides.

**Table 14: Community Cleanup Activities**

<b>Group</b>	<b>Area Cleaned</b>
Morne D'Or Development Committee	Morne D'Or
La Croix mothers' and Fathers' Group	La Croix
Barre St. Joseph community	Barre St. Joseph
Duke of Edinburgh, Fishers of Bananes Bay	Bananes Bay
Participants La Clery Summer Fun	La Clery Community
La Clery Community Group	La Clery
Staff of Victoria Hospital	Hospital grounds
Duke of Edinburgh Youth Club	Pointe Seraphine
Gros-Islet Youth Football Group	Gros-Islet
La Guerre Community Group	La Guerre
Boguis Combined School	Boguis
Japanese Students	Gros-Islet
Residents of Skate Town	Skate Town Community
Participants Department of Youth & Sports 2008 National Summer Camp (Babonneau)	Babonneau Community
Participants Waste Management Workshop (Gros-Islet)	Gros-Islet Pigeon Point Bypass
Adventures Club	Belmont and D/Riviere communities
Grace SDA Church	Grace community
Aux Lyon United Sports Club	Aux Lyon and surroundings
Ti Rocher Combined School	school environs
Blanchard Community Group	Tetoo community
Monach Sports Club	Grande Riviere community
Cocoa SDA	cleanup of Pierrot community
Dennery SDA Church	Dennery
Ti Rocher Catholic Youth Group	Ti Rocher Gap to Beauchamps
Gadette Development Committee	Gadette Community
Ghetto Stars	Palmiste, Soufriere

Cathra Junior League Organization	Getrine Community
Fond St. Jacques SDA Church	Ravine Clear to Fond St. Jacques
Participants Waste Management Workshop (Soufriere)	Baron's Drive Water Front
<b>Total</b>	<b>29</b>

## Litter Survey

The St. Lucia Solid Waste Management Authority in its continued efforts to improve environmental quality and health through proper waste management undertook a number of activities aimed at gathering data on the extent of littering and people's perceptions towards littering. The goal of the survey was to conduct a baseline assessment of roadside litter in Saint Lucia in order to assist the Saint Lucia Solid Waste Management Authority and other agencies engaged in litter management in targeting and evaluating litter reduction efforts.

One such activity was a roadside litter survey conducted between August 19 and 22, 2008. This survey sought to determine the generation rate and the composition of the litter along roads in selected public areas in Saint Lucia. The twelve Research Assistants included students and leaders of the St. Lucia Duke of Edinburgh Youth Club. Specifically targeted areas were Vieux Fort, Piaye, Choiseul, Mongouge, Soufriere, Bouton, Canaries, Dennery, Praslin, Micoud, Gros-Islet, La Guerre, Babonneau, Union, La Feuille, Corinth, Bocage, La Toc, Cul de Sac, Marigot, La Croix and Odsan.

Another activity, Focus Group Discussions took place between August 27 and 28, 2008 and targeted admitted or potential litterers and was designed to collect qualitative data regarding perceptions of litter, reasons for littering, and prevention strategies. Six main groups are targeted: students and youth organizations, regulatory agencies (public sector agencies), waste haulers, staff of the SLSWMA, private sector agencies and members of the public.

The telephone survey took place between November 25 and December 4, 2008 and targeted three hundred households throughout the island. They were interviewed about perceptions of littering, reasons for littering, and general litter prevention strategies. They were also interviewed about general waste management practices and education

strategies with respect to waste management.

Analysis of all the data collected will be undertaken following the final activity and will be presented in a report.

## **Litter Symposium**

The St. Lucia Solid Waste Management Authority as part of efforts to incorporate the youth in its Educational Awareness Programs hosted a two-day Litter Symposium at the Bay Gardens Resort Hotel from August 6 to 7, 2008.

The Symposium funded by the British High Commission was implemented in collaboration with the Duke of Edinburgh Youth Club. Participants originated from the Duke of Edinburgh Awards Youth Clubs in the following islands: Antigua and Barbuda, the Bahamas, Barbados, Belize, Bermuda, Dominica, Grenada, Jamaica, St. Lucia, and Trinidad and Tobago.

The Symposium supported the Authority's vision that the younger generation holds the key to the effective management and maintenance of the environment. Young people have continually shown interest in the proper management of the environment and have contributed to its upkeep by participating in activities such as clean-up campaigns and the Annual National Anti-Litter Schools' March. By engaging the youth in the litter symposium, their new awareness and understanding will further empower them to successfully deal with waste and litter management issues in their respective countries.

Over the two days, participants participated in various presentations on waste management presented by resource persons from the SLSWMA. Participants also toured the Deglos Sanitary Landfill and conducted presentations on litter management in their respective countries. The Authority affirms that this inter-island group discussion will allow for general comparisons of waste management problems and techniques, thereby ensuring that best practices can be adopted in all islands.

## **Solid Waste Improvement and Capacity Development Programme in Soufriere and La Clery**

Under the European Union Special Framework of Assistance (EU-SFA) program a solid waste improvement and capacity development project was implemented in the

communities of Soufriere and La Clery. Those communities were targeted because of noticeable solid waste issues. Under the project the following were undertaken: community meetings, children workshops, production and airing of radio and television public service announcements, community cleanup activities and distribution of household receptacles.

## **Public Awareness in Used Lead Acid Battery Recovery**

Under the European Union Special Framework of Assistance (EU-SFA) program an awareness project was implemented to improve the management and recovery of used lead acid batteries. Project activities included interventions with private sector entities engaged in the recycling of used lead acid batteries, production of brochures and posters and production of radio and television PSAs.

## **Waste Management Workshops**

The SLSWMA hosted Waste Management workshops for children of Gros-Islet, Micoud and Soufriere as part of efforts to sensitize and develop awareness with respect to solid waste management among the youth and to assist them to make informed decisions with respect to proper waste management. The Soufriere workshop funded by the **European Union** and the Gros-Islet workshop partly funded by **Super J Supermarket** were held at the Soufriere Primary School and the Gros-Islet Primary School respectively from August 13 – 15, 2008 and catered to children between the ages of five and fifteen years. The Micoud workshop was held from April 2-8, 2008 at the Micoud Secondary School and catered to a similar age group.

During the workshops, issues of solid waste management were highlighted in the form of expressive writing, drama, Art & Craft, visits to an organic farm and the Deglos Sanitary Landfill. Young persons also participated in discussions which focused on the services provided by the Authority as well as community cleanup activities. Participants in Micoud also staged an antilitter March through the village of Micoud. Resource persons were drawn from the teaching community of the participating communities and environs, popular theatre group of Soufriere and the staff of the Authority.

The Authority with funding from the European Union also worked alongside Options Design organizers of La Clery Summer Fun, a children's summer workshop. Staff of the

Authority engaged participants in discussions which focused on solid waste management issues and Tin Tin the Mascot of the Authority. Participants also engaged in a community cleanup activity and a visit to the Deglos Sanitary Landfill.

## **Antilitter Schools' March/National Cleanup Activity 2008**

The St. Lucia Solid Waste Management Authority hosted two Antilitter Schools' Marches (ALSM) and the National Cleanup Activity (NCUA) under the theme "***Gotta Go Green, Keep it Clean-Stop the Littering.***" The first Antilitter Schools' March was held on Friday, October 17, 2008 from the Phillip Marcellin Grounds through the town of Vieux-Fort and back to the Phillip Marcellin Grounds while the second was held on Friday, November 7, 2008 from the Vigie Playing Field to the Derek Walcott Square. The National Clean Up Activity was held from October 31 to November 2, 2008.

In Vieux-Fort participants assembled at the Phillip Marcellin Grounds in Vieux-Fort and marched south along New Dock Road, then onto New Dock Lane, south along Clarke Street, then right onto Theodore Street, along Giraudy Street, then along Commercial Street, then north along Clarke Street, then right onto the Vieux-Fort-Laborie Highway, then along New Dock Road and back to the Phillip Marcellin Grounds encouraging the public to keep St. Lucia clean. Students carried placards with anti-litter messages and chanted slogans as they moved to the beat of music. On arrival at the Phillip Marcellin Grounds students and teachers gathered for a ceremony where they were addressed by Mr. Peter Joseph, Education Officer, District 6; Ms. Brenda Wilson, Community Development Officer for Micoud and Loresta Dantes, student of the Piaye Secondary School. Students of the Belle Vue Combined School and the Mongouge Combined School performed skits and songs demonstrating good solid waste management practices.

In Castries participants assembled at the Vigie Playing Field and marched along the John Compton Highway onto and up Peynier Street, then, right up Micoud Street, then left onto Bourbon Street, then left onto Brazil Street, then left onto Laborie Street to the Derek Walcott Square encouraging the public to keep St. Lucia clean. At the Derek Walcott Square students and teachers also gathered for a short ceremony where they were addressed by Mrs. Geraldine Lendor-Gabriel, General Manager of the St. Lucia Solid Waste Management Authority as well as Mr. Joseph Medard of the Ministry of Health. Students of the La Croix Maingot Combined School, Anglican Infant School and the Gros-Islet Primary School performed during the activity. Messages from the performances highlighted the need for proper waste management practices.

Fifty-one (51) pre, infant, primary and secondary schools originating from the north and south of the island participated in the marches. Fourteen schools from the south opted for participation in the south of the island while the remaining thirty-seven participated in the march held in Castries.

With respect to the National Clean-Up Activity one hundred and sixty-five (165) groups throughout the island participated over the three-day cleanup period. Cleanup activities began on Friday, October 31, 2008, with cleanups undertaken by schools and some public sector agencies. Activities continued on Saturday and Sunday with community groups and private sector agencies undertaking cleanups of road sides, illegal dumps, recreational areas, beaches, ravines, rivers and public spaces. Cleanup activities also continued during the following weekend as the National Cleanup Weekend was not convenient for some groups. Waste collection contractors assisted with the removal and transportation of waste generated during clean-up activities.

A highlight of the program was a partnership with the Ministry of Health through a number of radio programmes in its response to mitigating the threat posed by Dengue Fever. Such collaboration highlighted the need for every resident of St. Lucia to ensure that their waste is effectively managed and that persons take timely action to address any poor waste management practices in their community.

## **National Clean-Up Activity Awards 2008**

The St. Lucia Solid Waste Management Authority on Saturday, February 28, 2009 held its seventh annual National Clean-Up Activity Awards. The event which took place at the Civil Service Association (CSA) Centre sought to acknowledge individuals, groups, community persons and private and public sector entities who had contributed significantly to the success of National Clean-Up Activity, 2008.

In the corporate community category Bank of St. Lucia, St. Lucia Linen and Daher Broadcasting Service were awarded for outstanding contributions in cash or kind.

The St. Lucia Red Cross Society, Royal St. Lucia Police Force – Vieux-Fort Service Station, Royal St. Lucia Police Force – Traffic Department Castries and the St. Lucia Fire Service – Vieux-Fort Service Station all received an award for the exemplary service rendered during the Antilitter Schools' Marches.

Awards were also presented for outstanding participation & support. All participants received a certificate.

Schools were recognized for outstanding performance during the National Antilitter Marches, a major activity designed to commence the observance of the National Cleanup Activity.

**Awards were received by the following:**

**Outstanding Contribution towards NCUA/ALSM 2008**

Bank of St. Lucia Ltd.  
Daher Broadcasting Service  
St. Lucia Linen Services Ltd.

**Outstanding Participation and Support**

Lastic Hill Community  
La Courville Youth Oriented  
Belaire Community  
Blanchard Community Group  
St. Lucia Fire Service (Castries)  
Cocoa Baptist Church Youth Group  
Leon Hess Comprehensive Secondary School  
I Can Change A Nation (ICCAN)  
Richfond Mothers' and Fathers' Group  
Bon Nouvelle District of Seventh Day Adventist  
Cocoa Baptist Church Youth Group  
Black Ambassadors Social & Cultural Organization (BASCO)

**Castries March**

**Most Creative Slogan/Placard**

*1st Place Infant/Primary: Ava Maria Infant School*

*1st Place Secondary: Centre for Adolescent Renewal & Education*

*2nd Place infant/Primary: Aux Lyon Combined School*

*2nd Place Secondary: Entrepot Secondary School*

*2nd Place Secondary: Leon Hess Comprehensive Secondary School*

*3rd Place Infant/Primary: Richfond Combined School*

**Best Organised/Energetic Group**

*1st Place Infant/Primary: Richfond Combined School*

*1st. Place Secondary: Castries Comprehensive Secondary School*

*2nd place Infant/Primary: Ava Maria Primary School*

*2nd Secondary: Centre for Adolescent Renewal & Education*

*3rd Place Infant/Primary: Aux Leon Combined School*

*3rd Place Secondary: Entrepot Secondary School*

**Special Prize**

*Happy Tots Pre-School*

*Dunottar School*

**Vieux-Fort March**

**Most Creative Slogan/Placard**

*1st Place Infant/Primary: Laborie Boys Primary*

*1st Place Secondary: Piaye Secondary School*

*2nd Place Infant/Primary: Augier Combined School*

*3rd Place Infant/Primary: River Doree Combined School*

**Best Organized/Energetic Group**

*1st Place Infant/Primary: Patience Combined School*

*1st Place Secondary: Micoud Secondary School*

*2nd Place Infant Primary: Dennery Primary School*

*3rd Place Infant/Primary: Blanchard Combined School*

The Authority during the awards ceremony launched the theme for National Clean-Up Activity, 2009 – ***Nurture Nature For a Better Future, Stop the Littering.*** The audience was encouraged to commence plans for the activity to ensure an even greater success in 2009.

# **OPERATIONS DEPARTMENT**

## **Introduction**

This fiscal period was a busy and productive one for the Operations Department. The department in conjunction with the Education and Public Information Department continued efforts at improving the collection of municipal solid waste, the operations of the waste disposal facilities and customer service. During the period, the Authority undertook a number of projects funded under the EU SFA programme, aimed at improving waste management on the island. These programs included an institutional review of the arrangements for solid waste management in the island, consultation on a Beverage Containers Bill, the procurement of twenty (20) waste oil storage containers, procurement of flue gas monitoring equipment, procurement of litter bins and sanitation improvement for a number of low income communities. In addition, the Authority undertook the second ever waste characterization study to be done on the island.

## **SOLID WASTE DISPOSAL**

The Authority operates and manages the only two waste management facilities on the island, namely the Deglos Sanitary Landfill located in the north of the island and the Vieux Fort Solid Waste Management facility in the south of the island.

These facilities accept non-hazardous waste inclusive of the following waste categories:

- Residential & Institutional Waste – waste generated from residential properties and government institutions and facilities e.g. schools, hospitals, health centres, prisons, offices, etc.
- Commercial waste – waste generated from commercial activities e.g. hotels, restaurants, supermarkets, shops, etc.
- Industrial waste – waste generated from industrial operations e.g. electricity production, factories, manufacturing processes, etc.

- Construction and Demolition waste – waste generated from construction activities and renovation of properties e.g. waste building materials, land clearing, etc.
- Certain hazardous wastes - hazardous waste which can be disposed of without posing a significant risk to human health and the environment e.g. asbestos, fiberglass, certain pharmaceuticals and biomedical waste, etc.
- Scrap metal/derelict vehicles – scrap metal and derelict vehicles which are no longer useful to the generator or owner.
- Quarantine waste – waste generated on ships and aircraft visiting the island.

## WASTE QUANTITIES

During this period, approximately 84,228.3 tons of solid waste was deposited at both waste management facilities representing a decrease of 298 tons compared with the previous period.

The Deglos Sanitary Landfill disposed of 64,813.7 tons or approximately 77 % of all waste disposed of in the island. This represented an increase of 122 tons over the previous period. Waste disposed at the Vieux Fort Solid Waste Management Facility amounted to 19,415 tons or approximately 23% of all waste and represented a decrease of 421 tons over the previous period.

The total number of vehicles discharging waste at the landfills increased from 55,054 to 55,481. The Deglos Sanitary Landfill received 38,820 vehicles, while the Vieux Fort Landfill received 16,661 vehicles (see table 1 below).

Table 1

Waste Category	April 07 to Mar 08			April 08 to Mar 09		
	DSL* (tons)	VFSWMF* (tons)	Total (tons)	DSL (tons)	VFSWMF (tons)	Total (tons)
Aircraft	38.2	64.9	103.9	42.6	77.2	119.8
Asbestos	12.6	0	12.6	4.1	0	4.1
Biomedical	40.8	0.5	41.3	33.7	2	35.7
Beach Cleaning	198.2	73.3	271.5	382.3	39.2	421.5
Bulky	2754.2	1210.2	3964.5	1963.7	714	2677.7
Cardboard	539.1	45.9	585	394.7	27.6	422.3
Coconuts	688.76	57.3	746.1	608.1	38.2	646.3
Commercial	15427.6	1889	17316.6	15958	2127.4	18085.4
C & D	7274.2	746.4	8020.6	7014.4	1071.5	8085.9

Condemned Foods	179.5	23.2	202.7	245.2	6.1	251.3
Dead Animals	9.52	1	10.5	2.52	2.3	4.82
Derelict Vehicles	269.9	48.7	318.6	196	39.7	235.7
Fiberglass	10.1	1.9	12	2.1	9.7	11.8
Green	4936.5	451	5387.5	3052.3	508	3560.3
Industrial	77.52	1176.2	1253.7	52.8	781	833.8
Metal	269.6	98.6	368.2	242.9	60.5	303.4
Pharmaceuticals	11	25.4	36.3	1	23.3	24.3
Plastics	63.1	18.6	81.7	93.7	26.8	120.5
Residential/Institutional	22962.8	11407.3	34370.1	23676	10021.4	33697.4
Ship	1795.8	0.43	1796.3	3237.7	0	3237.7
Soil	3188.5	1413.1	4601.6	3222.8	2478.1	5700.9
Street Cleaning	2799.4	856	3655.4	3415.7	1142	4557.7
Tires	707.9	223.1	931	600.5	166.4	766.9
Other	435.3	3.5	438.9	371.2	53.1	424.3
<b>Total</b>	<b>64690.8</b>	<b>19835.6</b>	<b>84526.3</b>	<b>64813.7</b>	<b>19414.9</b>	<b>84228.6</b>
<b>Total Vehicle Trips</b>	<b>38250</b>	<b>16804</b>	<b>55054</b>	<b>38820</b>	<b>16661</b>	<b>55481</b>

\* DSL- Deglos Sanitary Landfill

VFSWMF – Vieux Fort Solid Waste Management Facility

Of the waste disposed of, the residential/institutional category represented 40% (33,697 tons) of all waste followed by commercial waste representing 21% (18,085 tons) and construction and demolition waste with 8,086 tons or 10 percent (see figure 1).

Figure 1

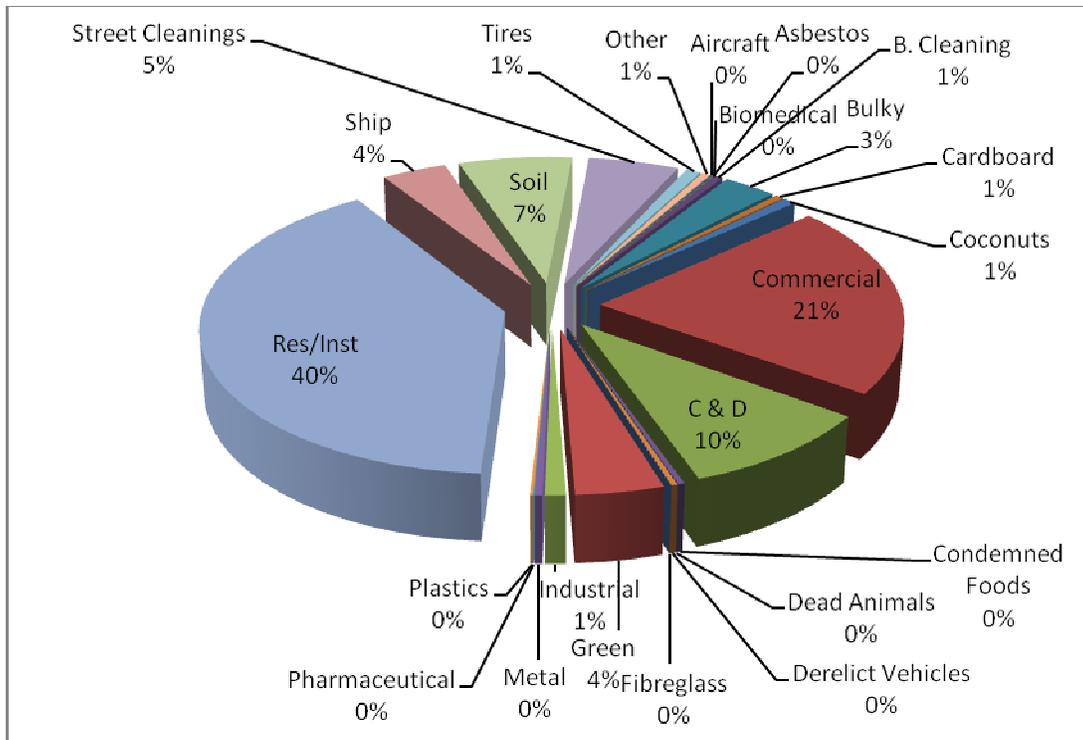
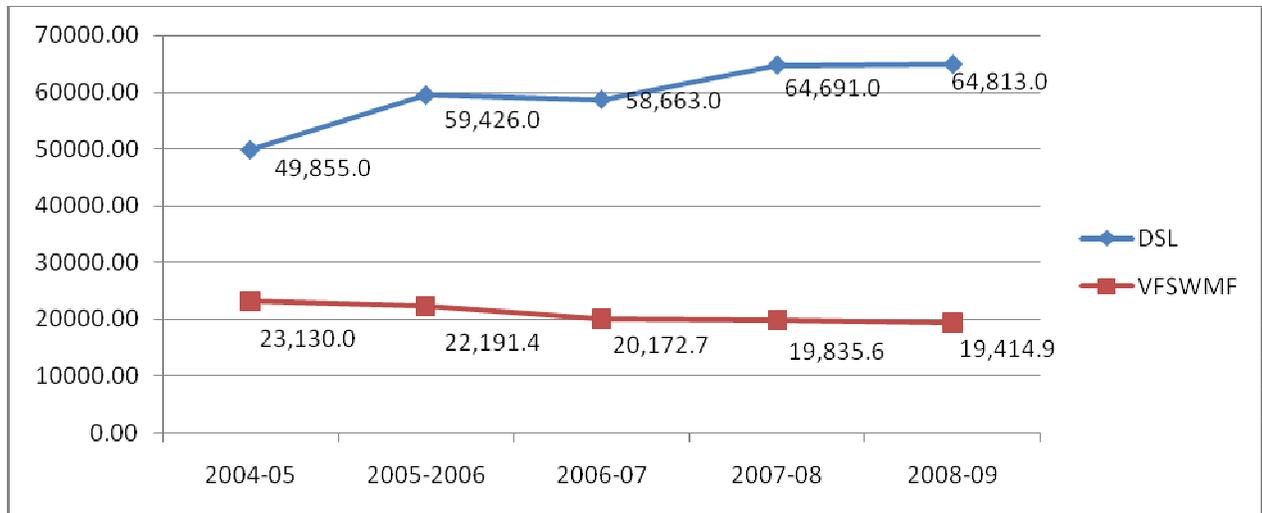


Figure 2 shows changes in the disposal of waste at the landfills for the past five years from April 2004 to March 2009. The Vieux Fort landfill continues to receive less waste each year while at the Deglos Sanitary Landfill, waste quantities over the years appears to fluctuate. From 2004/05 to the current period waste quantities have increased by 14, 958 tons or approximately 30 percent at the Deglos Sanitary Landfill while at the Vieux Fort Landfill waste quantities have decreased by approximately 16 percent.

Figure 2



Changes in Waste Disposal in Tons at Landfills in St. Lucia

## SOLID WASTE COLLECTION

The Authority is responsible for the collection of municipal solid waste generated from private households, government offices, institutions and agencies. This service consists of a collection for regular waste on a frequency established by the Authority and a collection for bulk items on a once monthly basis. The private sector is required by law to make arrangements for the disposal of the waste they generate either by contracting the services of a licensed waste hauler or by making their own arrangements for transporting the waste they generate to the landfills.

The collection of municipal solid waste is undertaken through private waste collection contractors who are required to procure their own equipment and facilities and employ staff in order to undertake the service. In addition to the collection of refuse from the above-mentioned entities, the collection contractors are responsible for the removal of derelict vehicles on public roads where the owners cannot be identified, remediation of indiscriminate dump sites, provision of a monthly bulky waste collection service and public awareness for generators they serve.

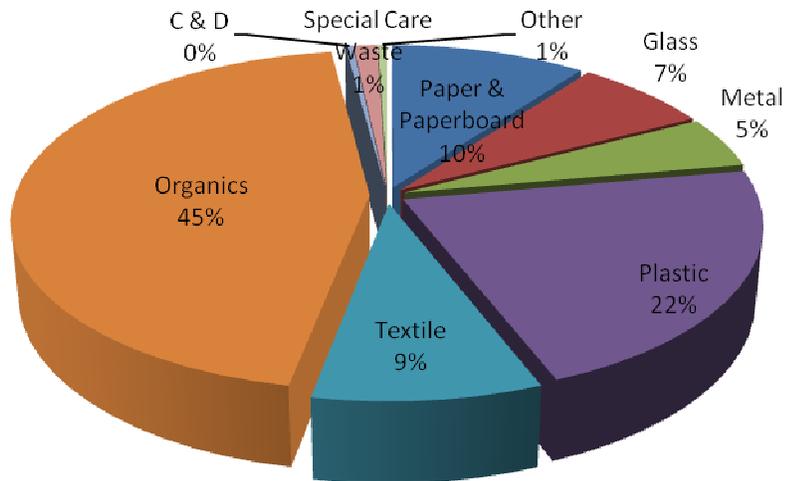
## WASTE CHARACTERISATION

In August 2008, the Authority undertook a waste characterization study at the Deglos Sanitary Landfill and at the Vieux Fort Solid Waste Management Facility.

This study follows on the heels of the very first study undertaken in 2002 by the Authority and sought to determine the components of waste disposed at the two waste management facilities by the Authority's waste collection contractors who transport residential, commercial and institutional waste.

Organic materials represented the single largest component of the waste stream accounting for approximately 45% by weight (see Figure 3). This compares with 58% for the 2002 waste characterization study, representing a decrease of approximately 13% of organics.

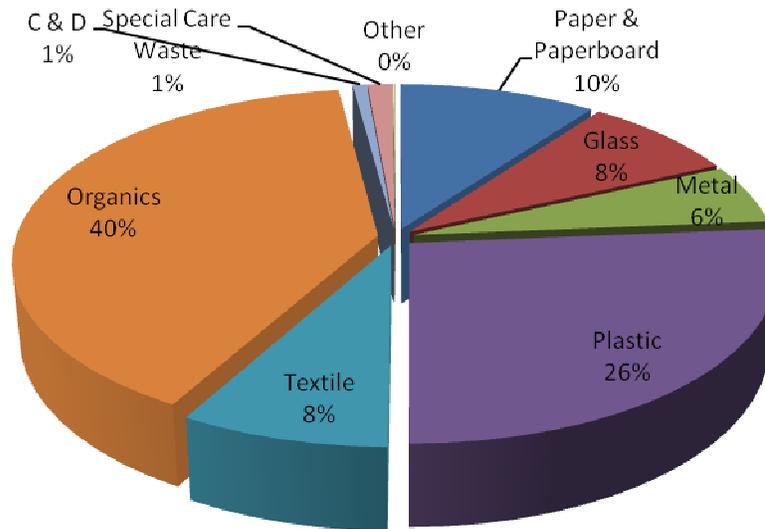
Figure 3  
**Components of Municipal Solid Waste in St. Lucia**



The plastics category which represents 22% of all waste, accounted for the largest percentage increase from 13% in 2002. The paper and paperboard category decreased by 3 %, while there were marginal increases in glass from 6% to 7%, metal from 4% to 5% and textile from 4% to 9 percent.

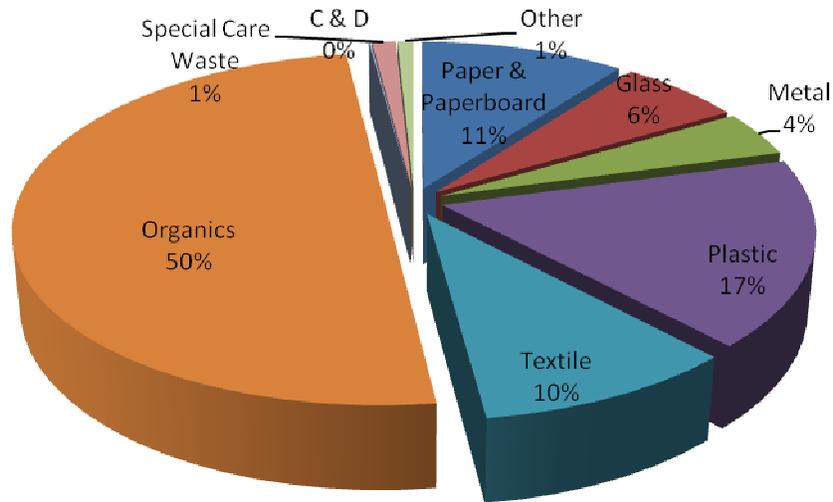
With respect to the waste received at the Deglos Sanitary Landfill, organics accounted for 40% of the waste received, followed by plastics with 26%, paper & paperboard 10%, glass and textiles both accounting for 8%, metal 6% and special care waste and construction and demolition waste 1% respectively (see Figure 4).

Figure 4  
**Waste Components of Municipal Solid Waste Disposed at Deglos Sanitary Landfill**



With respect to waste received at the Vieux Fort Solid Waste Management Facility, organics accounted for 50% of all waste received followed by plastics with 17%, paper & paperboard 11%, textile 10%, glass 6%, metal 4% and special care waste 1% (see Figure 5).

Figure 5  
**Waste Components Disposed at Vieux Fort Solid Waste Management Facility**



The results of the waste characterization study indicated that for the waste management facilities individually and the national situation organics represents the largest waste component disposed of followed by plastics, paper & paperboard products, textile, glass, metal and special care waste in that order. In addition, the proportions of the waste categories at both disposal facilities did not vary to any significant degree. Comparing the previous waste characterization study conducted in 2002, the results indicate marginal (single digits) increases in all categories and a decrease of 13% in the organics category.

## ENVIRONMENTAL MONITORING

The environmental monitoring program for the solid waste management facilities continued during the reporting period. The monitoring program seeks to detect and minimize any adverse impacts from the operations of the waste management facilities on the environment. Monitoring activities undertaken included sampling and analysis of ground water monitoring wells, surface water, and leachate. In addition, monitoring for landfill gas concentration and migration off-site is undertaken at the closed Ciceron Disposal Site in Castries.

The environmental monitoring program at the Deglos Landfill continues to include monthly monitoring of ground water wells, the stream course where treated leachate is discharged, and leachate in the leachate treatment ponds. At the Vieux Fort Solid Waste Management Facility, the program involves sampling surface water upstream and downstream of the facility. The program instituted at

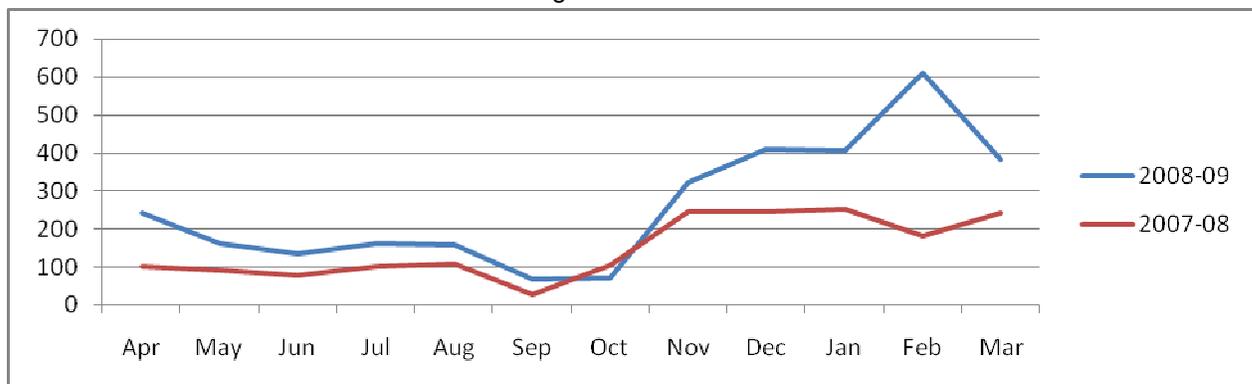
the two waste management facilities continues to indicate that the operation of the facilities have very little negative impacts on the environment.

## SHIP GENERATED WASTE

Cruise ships wishing to discharge waste in the island are required to notify the Authority using a prescribed form, 48 hours in advance of their intention to do so. The Authority disposed of approximately 3,122 tons of ship-generated waste during the period. This compares with 1,789 tons from the previous period representing an increase of 1,333 tons or approximately 74%. The waste was discharged from 274 vessels compared with 197 vessels discharging 1,789 tons during the previous year (see figure 6).

The waste discharged included crushed glass, empty containers, bulky items, incinerator ash, dry garbage e.g. paper, plastics, textile, etc. The Authority prohibits the landing of hazardous waste, raw and uncooked food, plant material, electronics waste, radioactive waste and any other waste which cannot be managed in an environmentally sound manner.

Figure 6



Changes in Waste Disposal in Tons by Cruise Ships

## COMPLAINTS

The number of complaints received by the Authority during the period decreased by approximately 12% over the last period from 515 to 458 complaints. The majority of the complaints originated from the northern part of the island corresponding to the most populous part of the island (Figure 7). The northern part of the island from Gros Islet to Cul De Sac, comprising four waste collection

zones accounted for 84% of all complaints received. During the previous period the northern part of the island account for 85% of all complaints.

As in previous years, the top three (3) complaints received were indiscriminate dumping (28%), non-collection of solid waste (21%) and derelict vehicles (14%). Complaints related to indiscriminate dumping increased by 5% while the non-collection of solid waste category increased by approximately 1%. The number of persons reporting that their waste was not collected remained the same, likewise, the number of derelict vehicle complaints. Four complaints were received indicating that persons placed their waste out after the passage of the refuse collection vehicle.

Figure 7  
Category of Complaints Received 2008/09

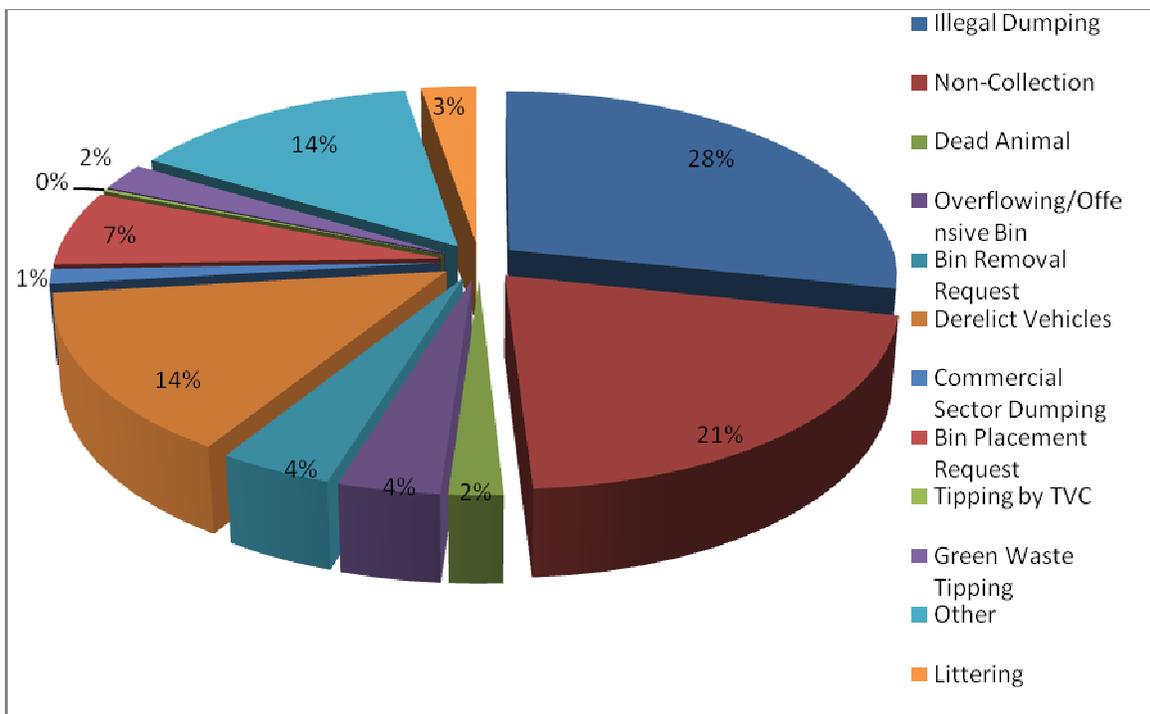
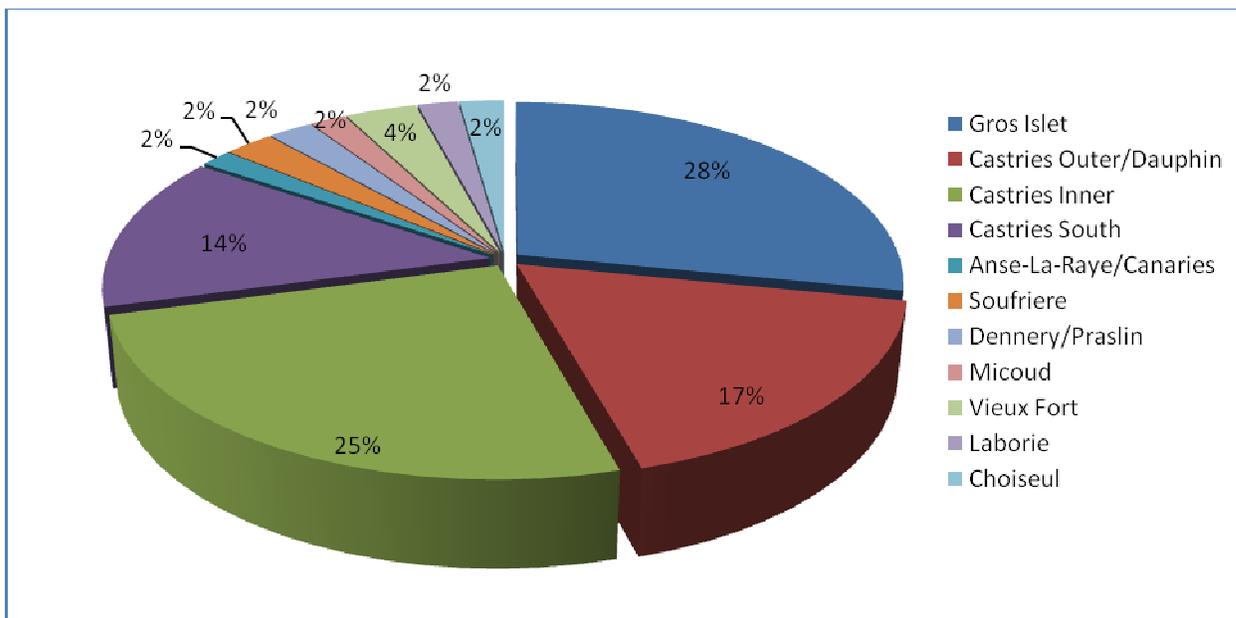


Figure 8  
**Distribution of Complaints By Collection Zones**



## **DERELICT VEHICLES**

The Authority's program for the identification and removal of derelict vehicles in public places continued to produce meaningful results. However the number of derelict vehicles abandoned by their owners continues to be on the increase with a total of 126 new derelict vehicles being identified. The Authority caused to be removed a total of ninety-four (94) derelict vehicles throughout the island. Of that total, 32 vehicles were removed with the assistance of the waste collection contractors and 62 vehicles by the vehicle owners. Once removed, derelict vehicles are disposed at the waste management facilities in the island. At the end of the reporting period, a total of 133 derelict vehicles remained abandoned pending removal. Table 2 presents a summary of the Derelict Vehicle Identification & Removal Program.

**Table 2**

<b>Waste Collection Zone</b>	<b>No. of New DV Identified</b>	<b>No. Removed by Waste Contractor</b>	<b>No. Removed by Owners</b>	<b>Total No. Removed</b>	<b>Total No. Existing</b>
Castries Inner	12	4	16	20	10
Castries South	12	6	9	15	12
Anse-la-Raye/Canaries	4	5	6	11	11
Gros-Islet	16	8	10	18	20
Dauphin/Castries Outer	34	0	10	10	46
Dennerly/Praslin	19	2	3	5	14
Micoud	10	3	2	5	5
Vieux-Fort	10	2	1	3	7
Soufriere	1	0	0	0	1
Choiseul	8	1	5	6	4
Laborie	0	1	0	1	3
<b>Total</b>	<b>126</b>	<b>32</b>	<b>62</b>	<b>94</b>	<b>133</b>

**Derelict Vehicle Identification & Removal – April 2008 to March 2009**

## **BIOMEDICAL WASTE MANAGEMENT**

The Authority continues to ensure that biomedical waste is managed in an environmentally sound manner. Biomedical waste generated on the island is collected, transported and treated through a privatized arrangement. The treatment facility which became operational in 2005 continued operations without any significant operational problems. The service is offered to both public health care facilities and private health care facilities.

During the year approximately 32,333 kilograms of biomedical waste (a decrease of 21% over the previous period) was collected at approximately 61 locations island-wide up from 49 locations from the previous period. Of this total, 27,778 kg or 86% of the waste originated from public health care facilities while 14% or 4,555 kg originated from private health care institutions. These totals represented a decrease of approximately 19% from 34,100 kg for the public institutions and a decrease of approximately 32% from 6,677 kg for the private institutions.

The Government-owned Victoria Hospital generated 20,236 kg or 62%, a decrease of 5,164 kg or approximately 24% over the previous period. The government-owned, St. Jude's Hospital generated approximately 17% and the private institution, Tapion Hospital, generated 11 percent.

The Authority continued to undertake training of health care facility personnel in biomedical waste management in addition to conducting audits of health care facilities to ensure proper management of health care waste. During the period, staff at St. Jude Hospital received training followed by a visit to observe the treatment process at the Deglos Sanitary Landfill.

## **USED OIL MANAGEMENT PROGRAM**

The Authority continued efforts at ensuring that used oil is managed in a manner that takes into consideration the possible effects of improper management on human health and the environment. The management system for used oil instituted in 2003 involves the collection and use of used oil as a supplementary fuel by authorized industrial entities. As part of the program, the Authority provides specialized waste oil storage containers to generators of used oil under an agreement. To date approximately forty-eight (48) waste oil storage containers are in use islandwide at garages, gas stations, landfills, police stations, marinas etc.

During the period an additional twenty (20) waste oil storage containers were procured by the Authority from funding received under the European Union Special Framework of Assistance (EU/SFA) Program. In addition, flue gas monitoring equipment was also procured through the EU/SFA Program. The equipment will be used to monitor the stack emissions from the boilers utilizing used oil as a supplementary fuel.

During the period, approximately 270,000 gallons of used oil was collected for reuse. Of this amount 175,413 gallons or 65% was collected from ships and 94,587 gallons or 35% from waste oil storage containers in the island.

## **SPECIAL PROJECTS**

Under the European Union Special Framework of Assistance (EU-SFA) program, in addition to the procurement of waste oil storage containers and flue gas monitoring equipment, the Authority was able to undertake a number of projects as follows:

1. Private Sector Capacity Development and Improved Public Awareness and Participation in Used Lead Acid Battery Recovery. This project identified the issues affecting private sector entities engaged in the recycling of Used Lead Acid Batteries (ULABs) and proposed interventions to address these. It also sought to improve the management of ULABs resulting in the reduction of negative impacts on human health and the environment.
2. Consultation for the Development of a Beverage Containers Bill. This consultancy focused on consulting with key stakeholders including beverage manufacturers, importers and civil society with a view to developing appropriate and effective legislation and mechanisms to deal with the management of discarded containers which are usually strewn in the environment.
3. Solid Waste Improvement and Capacity Development Program in Selected Communities. This program was aimed at communities with noticeable solid waste issues and sought to address the issues through public education, capacity development and infrastructure development. Under the project, a number of solid waste receptacles were obtained for household and community use. The following communities were beneficiaries under this project:
  1. Coin de lance, Palmiste and Baron Drive communities in Soufriere
  2. The community of La. Clery
4. Review of the Institutional Arrangements and Organizational Arrangements for Solid Waste Management. This consultancy sought to identify the issues/problems affecting the provision of an effective solid waste management system in the island and proposes the required interventions to address these concerns.

# FINANCE DEPARTMENT

## **OVERVIEW**

For the first time in the last three fiscal periods, the St. Lucia Solid Waste Management Authority 's operating performance as registered on the Statement of Income showed a surplus. Total Income for the period was \$11,032,524 and Total Expenditure \$10,515,101, a surplus of \$517,423. The two preceding periods registered a cumulative deficit amount of \$1,956,521.

This favorable performance was again influenced by expenses relating to the Deglos Landfill, Dispute Adjudication Board (DAB) proceedings. In this particular instance, however, the over one million dollars reduction in DAB expenses caused a significant contraction in total expenditure resulting in an overall surplus. Conversely, the \$3.47 million dollars spent in this category during the two previous periods, was chiefly responsible for the accumulated deficit.

The overall structure of the Authority with regards to its revenue base and the areas of expenditure, continues to be the same. For the period under review, the combined performance of Government Support and Environmental levy, the principal revenue pillars, was \$8,704,422. This amount is seventy-nine percent (79%) of total revenue. For the prior period, the corresponding amount was \$7,479,243 or seventy-four percent (74%) of total revenue. Government's support for the period totaled \$5,000,000 and this is up from \$3,537,764 in 2007/08. From an expenditure perspective, out of a total of \$10,515,101, \$8,757,418 was spent in the areas of Waste Collection and landfill operations. This amount is eighty-three percent (83%) of total expenditure. In 2007/8, total expenditure was \$11,278,689 and \$9,179,422 or eighty-one percent (81%) was spent on Landfill and Waste Collection operations.

## **BALANCE SHEET**

For the period under review, Total Assets under management decline by 6.7% as it went from \$16,627,614 in 2007/8 to \$15,520,587. This \$1,107,027 reduction is largely the result of the annual amortization of Deferred Expenditure (See note 7 of the Financial Statements).

The short-term financial strength of the Authority using the Current Ratio analysis (Current Assets/Current Liabilities) continues to be positive. For 2008/9, the 1.21 : 1 ratio represents a marginal improvement of the prior year's ratio of 1.11 : 1.

After taking a major hit by last year's deficit of \$1,344,225, the Fund Balance improved by the surplus amount of \$517,423 at the conclusion of 2008/9. It should be noted that the Fund Balance, which stood at \$2,285,201 at the conclusion of 2008/09 is the accumulation of surpluses and deficits over the life of the Authority.

## **SIGNIFICANT ISSUES - Revenue**

### *Subvention*

Government financial support for 2008/09 rebounded significantly from a major reduction in 2007/08. The \$5,000,000 amount for 2008/09 represents an increase of \$1,058,521 over the previous year's amount. This revenue source is still by far the largest income earner for the Authority. It should be noted that government's support to the Authority, in terms of its subvention, has decreased every year for the last seven years. In real terms, that support went from a high of \$7,331,574 in 2001/02 to \$3,537,764 in 2008/09.

### *Environmental Levy*

There are two components to this revenue source. These include the levy on passenger arrivals through our seaports, and the levy on passenger arrivals through our airports. In both instances, the Authority receives US\$1.50 for each visiting passenger. For the period under review, the Authority received a total of \$3,704,422. Although lower than the previous year's amount, \$3,704,422 is still the second largest total for one year throughout the thirteen year history of the Authority.

Over the last four years, inflows from the airports' component have been between \$1.26 million and \$1.29 million. From the seaports component, inflows have been between \$1.50 million and \$2.64 million.

## **SIGNIFICANT ISSUES – Expenditure**

### *Waste Collection Expenses*

At the start of the fiscal period, April 2008, the Authority awarded a ten percent increase to all regular waste collection contractors employed by the Authority. This negotiated increase has resulted in an annual increase in contract fees to the Authority totaling \$453,800. Expenditure under this category for the period, inclusive of miscellaneous waste-related expenses was \$5,010,757. Additionally, \$144,480 was spent providing a bio-medical waste collection service to all of the main healthcare institutions on island, inclusive of all health centres. The overall waste collection expenditure for the year was **\$5,155,237**.

### *Landfill Expenses*

Over the last six years, the Authority has had to incur Dispute Adjudication Board (DAB) expenses which have adversely affected the entire operations of the Authority. These expenses are landfill related but they are non-operational.

From an operational viewpoint, landfill expenses went from \$1,457,463 in 2007/08 to \$1,664,035 in 2008/09, an increase of \$206,572 or 14 percent.

An analysis of the related expenses reveals that there were four major reasons for the 14 percent increase. Firstly, during the year, the Authority awarded wage increases to all of its daily paid workers. These increases took effect in June of 2008. Secondly, fuel and oil expenses were significantly higher in 2008/09 than in the previous year. The Authority in fact spent a total of \$96,109 more in the current year than it did in the previous year. Thirdly, whereas there were no Hired Equipment expenses for the Deglos site, the Vieux-Fort site saw an increase of \$29,425 over the prior year's amount. Finally, during the year a substantial amount of Quarry Waste was required to ensure that access to the tipping area of the Deglos site was maintained. In doing so, \$40,054 was spent in procuring and transporting the material to the site. On the Vieux-fort site the Authority invested in what is considered an innovative method in providing daily cover for waste which is deposited. The method involves a specially made covering, which and is placed over the tipping area on the site at the end of the working day. The intention is to replace the usual soil-base cover material that is normally applied. The landed cost for this special material was \$4,674. When put together the cost for providing cover material and securing the access road for the two sites totaled \$44,727. This amount is \$27,218 more than what was spent in the previous year.

As was mentioned previously, DAB expenses have been a major burden for the Authority. In 2008/09, \$771,647 was spent and this is down by \$1,066,073 from the prior year's figure of \$1,837,721. Despite the fact that this is a major reduction, the process has not ended. This Authority anticipates additional expenses in the coming year.

#### *Administration and Related Expenses*

At the conclusion of 2008/09 the Authority experienced a \$139,312 or a 12 percent increase in expenses in this area of its operations. This is considered to be an unusually high increase because of the relatively marginal fluctuations we have had over the years. There are two particular components to which this increase can be attributed to. These are: Advertising and public relations as well as Training/Overseas/Consultations. Together, the increase in these two components totaled \$112,082. With respect to the former, the Authority undertook a number of public awareness campaigns, which utilized both the print and electronic media. It should be noted that a substantial part of the expenses did receive external funding.

Expenses relating to the latter component involved two conferences, one regional and the other international. The overall expenditure amount for the year was \$1,328,362.

The Financial Statements for the period April 2008 to March 2009 are appended.