

The background features several large, stylized, overlapping swirls in shades of green, purple, and light blue. Interspersed among these swirls are numerous small, yellow, triangular shapes that resemble sun rays or decorative elements.

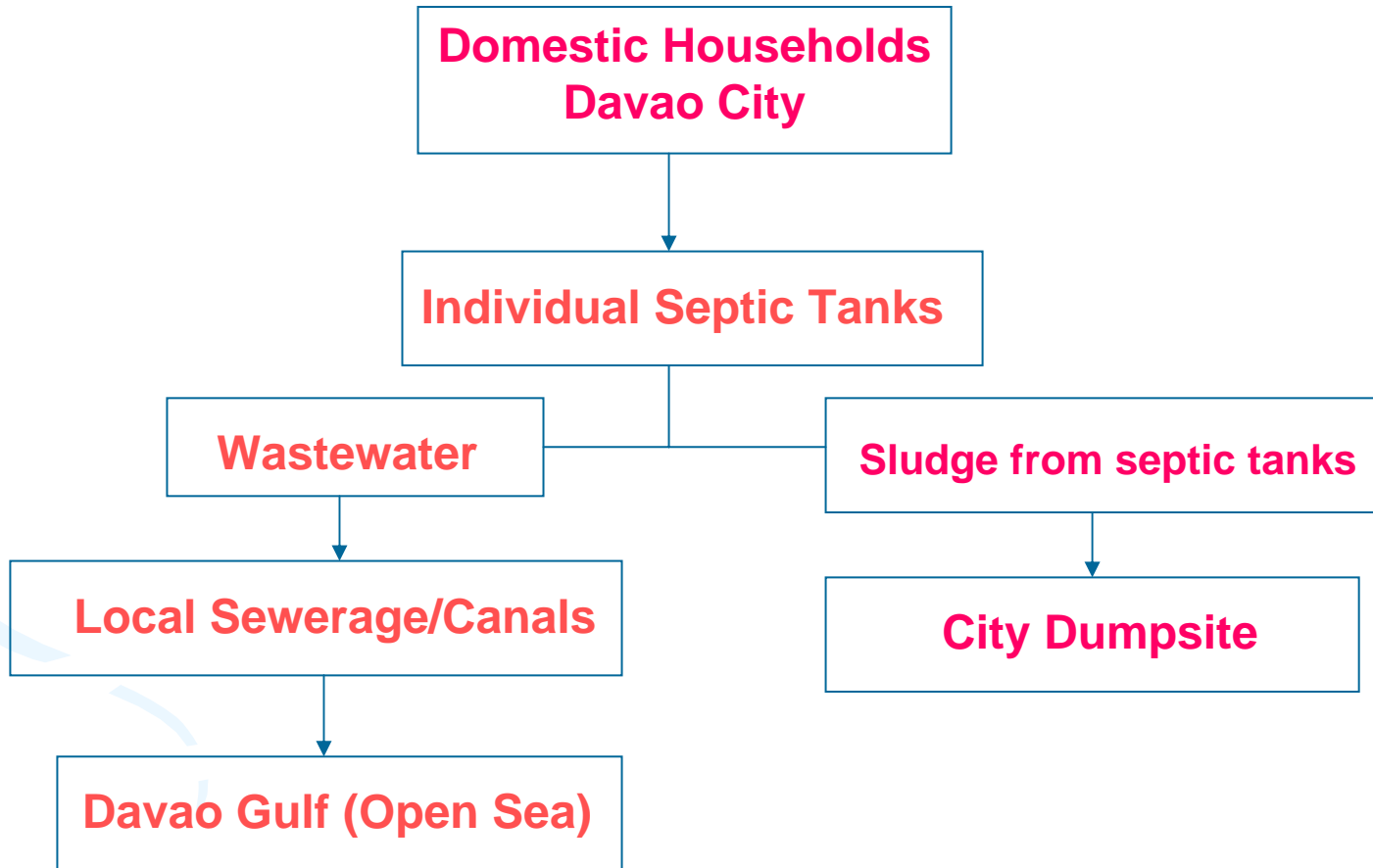
# **WASTEWATER HANDLING**

**Reported by:**

***RAQUEL FERRAZ VILLANUEVA***

***PHILIPPINES***

# WASTEWATER FLOW FOR DOMESTIC WASTEWATER



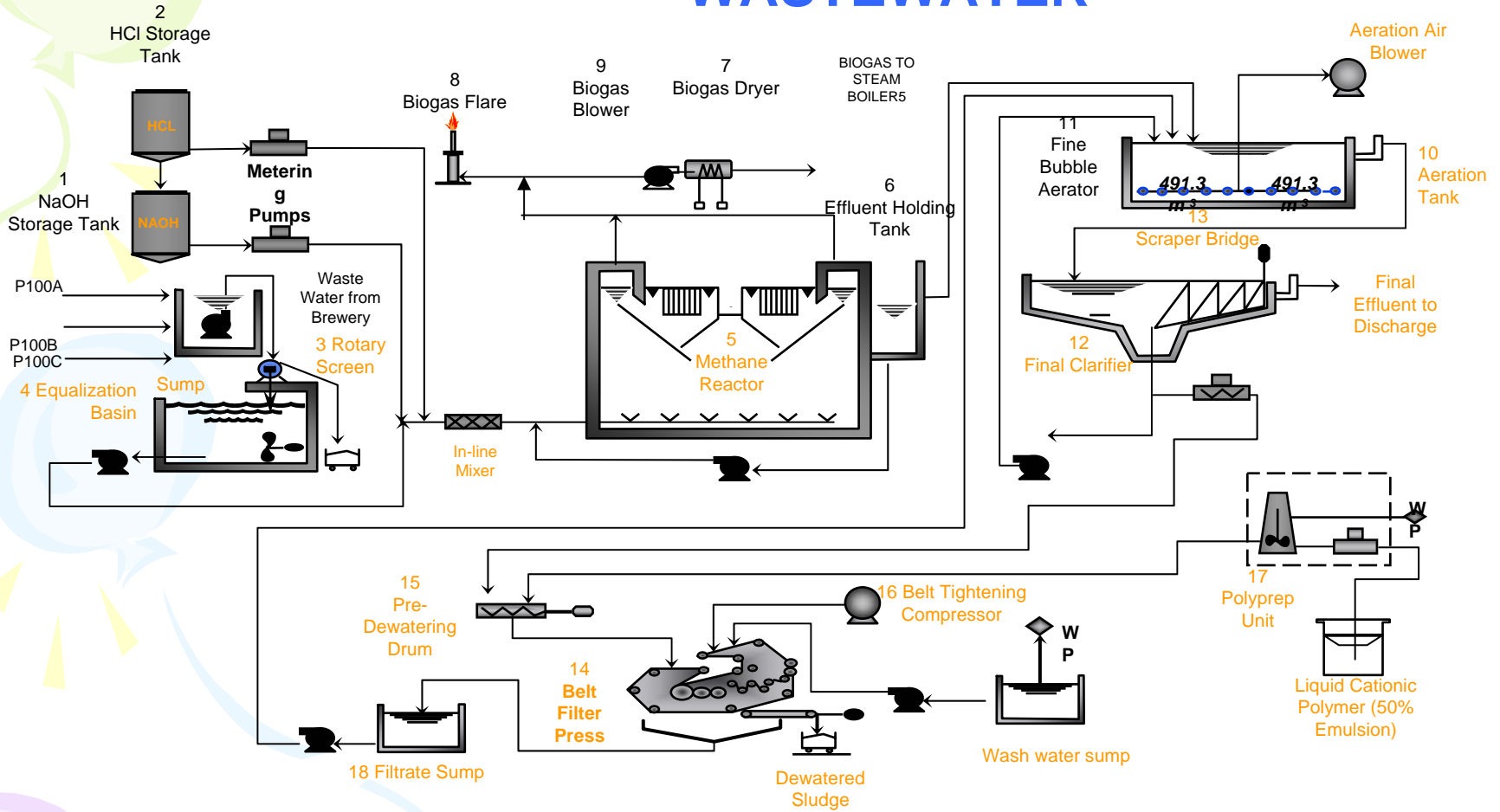
A decorative graphic on the left side of the slide features three balloons in shades of green, blue, and purple. Each balloon is attached to a string and has several small yellow triangular shapes radiating from it, resembling a sun or a party decoration.

## **COMPOSITION/SOURCES OF DOMESTIC WASTEWATER**

**Domestic Wastewater is composed of:**

- **Human Waste**
- **Urine**
- **Water from Washings**
- **Water from Bathing**

# WASTEWATER FLOW FOR INDUSTRIAL WASTEWATER

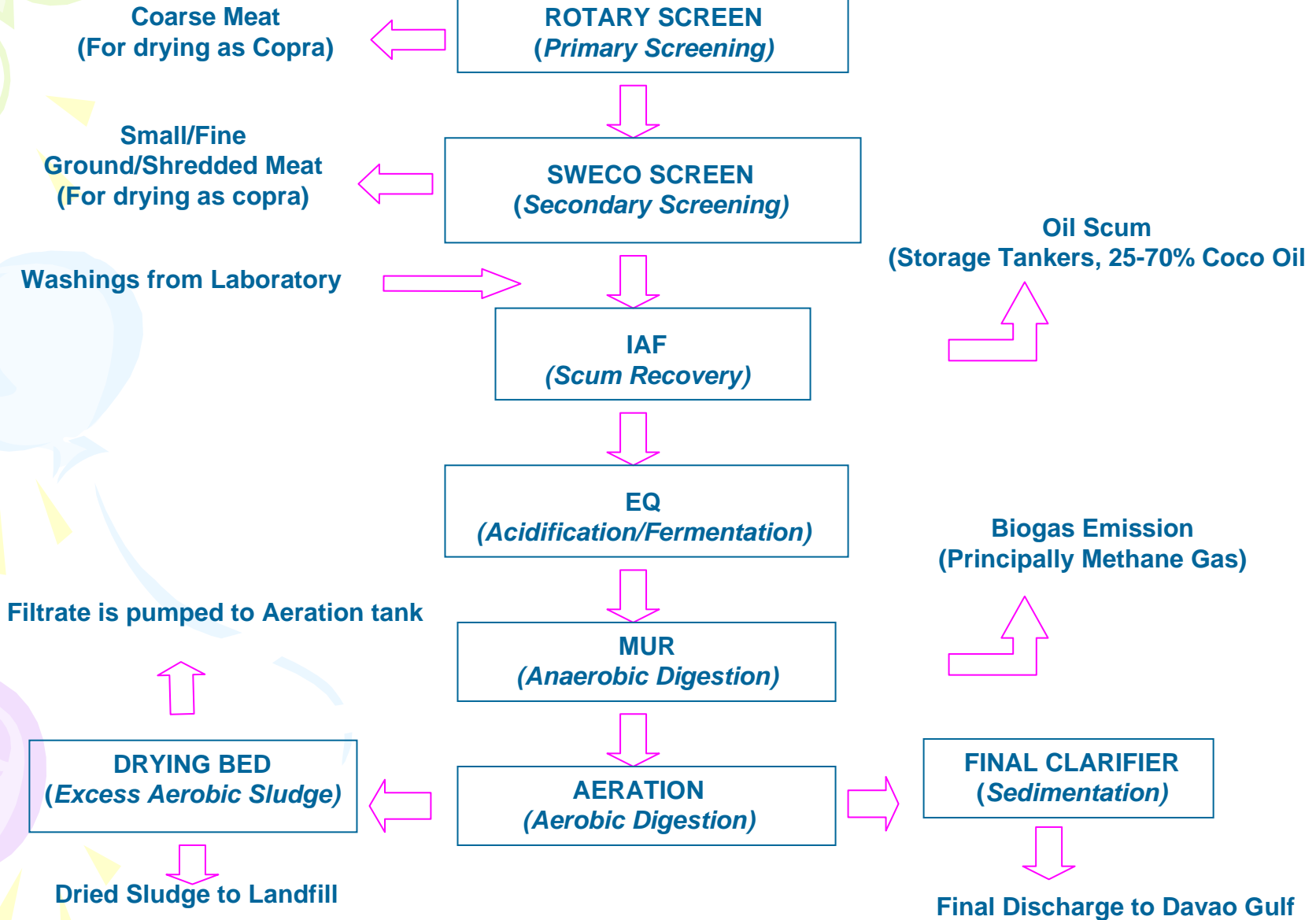


## BEER MANUFACTURING PLANT

# WASTEWATER FLOW FOR INDUSTRIAL WASTEWATER

## DESSICATED COCONUT PLANT

RWW





# COMPOSITION/SOURCES OF INDUSTRIAL WASTEWATER

**For Beer Manufacturing: Weight in Kgs./year = 3,456 kgs./yr.**

- **Domestic Wastewater - 10%**
- **Wash Water from equipments, tanks, etc. - 30%**
- **Process Wastewater - 60%**

**For Dessicated Coconut Manufacturing:  
Weight in kgs./yr. = 2,468 kgs./yr**

- **Domestic Wastewater = 4.5%**
- **Wash Water from equipments = 4.5%**
- **Process Wastewater = 72%**
- **Wash water from the floor = 19%**

A decorative graphic on the left side of the slide features three balloons in shades of green, blue, and purple. Each balloon is accompanied by several small yellow triangles, suggesting movement or light. The balloons are connected by thin, curved lines.

# **SOLID WASTE DISPOSAL ON LAND**

**Reported by:**

***RAQUEL FERRAZ VILLANUEVA***

***PHILIPPINES***

The slide features three balloons on the left side: a green one at the top, a light blue one in the middle, and a purple one at the bottom. Each balloon has a string and several yellow triangular rays emanating from it, suggesting a festive or celebratory theme.

# **SOLID WASTE COMPOSITION OF THE MUNICIPALITY OF STO. TOMAS, DAVAO DEL NORTE**





## **BACKGROUND PROFILE:**

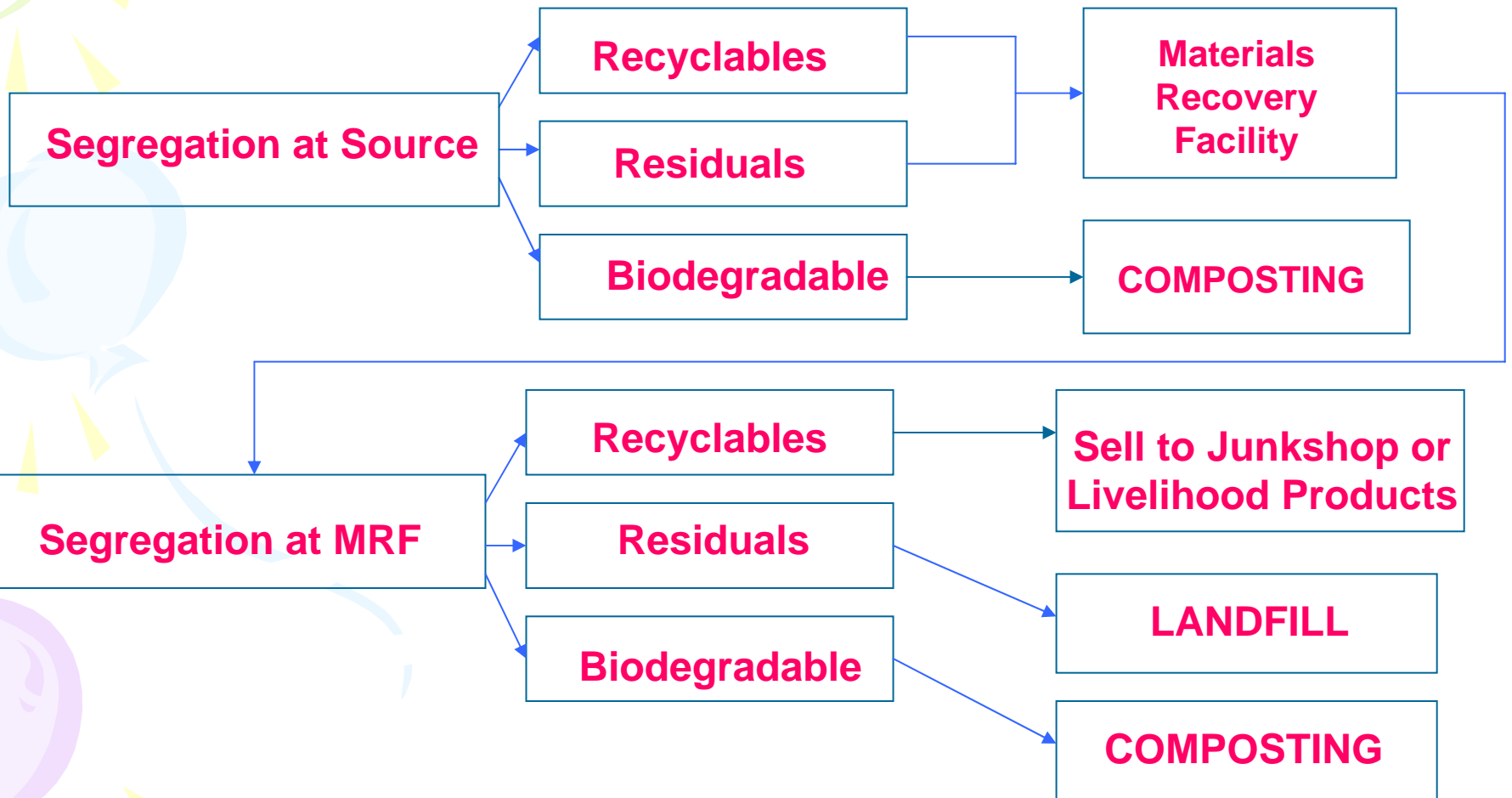
**The Municipality of Sto. Tomas in Davao del Norte was created on August 14, 1959 through Executive Order No. 352. It has a land area of 32,041 hectares composed of 19 barangays with a total population of 84,367 with a total households of 16,810.**

**Solid Waste Management in the municipality started in 1994 as The Clean and Green Program, upto 2004. In order that this program will succeed two (2) Municipal Ordinances and three (3) Resolutions were passed by the municipal council.**

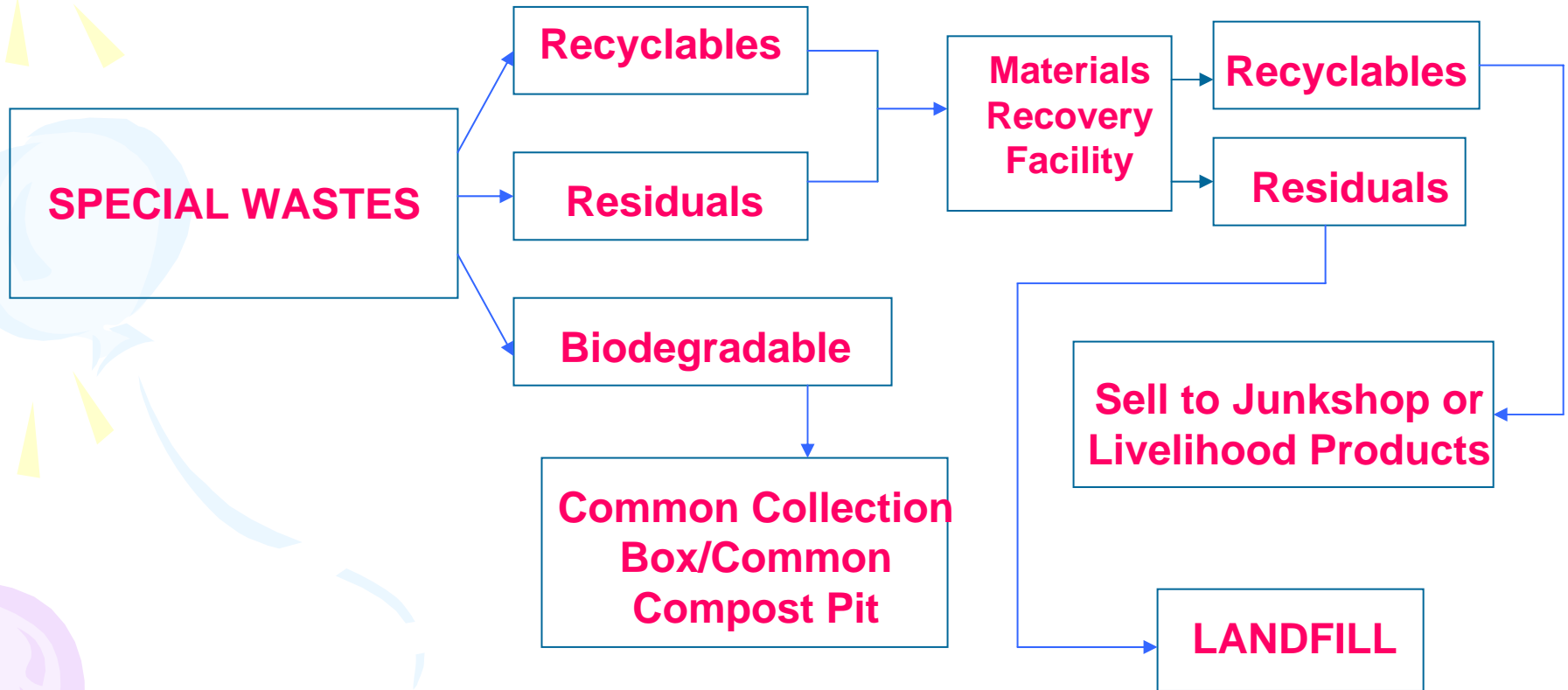
**A Solid Waste Management Board was organized to oversee the effective solid waste management of their municipality.**

**This municipality is one of the model sites being assisted by the Environmental Management Bureau, DENR in Region XI and is a recipient of several awards because of its successful implementation of its solid waste disposal.**

# SOLID WASTE STREAM FROM GENERATION TO DISPOSAL



# SOLID WASTE STREAM FROM GENERATION TO DISPOSAL



# SOLID WASTE COMPOSITION/SOURCES

## Residual (Non-Biodegradable)

Tin Foil	Shells
Rubber Tires	Plastic Wrappers
Broken Ceramics	Rubber Bands
Broken Bottles	Twine
Broken Glasses	Cups
Cigarette Filters	Toothpaste Tubes
Hair	Shampoo Sachets
Straws	Sanitary Napkin

## Diapers

Weight in kilograms = 2.30 kgs.  
Percentage = 12%

## Biodegradable

Food Leftovers	Leaves
Vegetable Peelings	
Flowers	
Roots of Plants	Egg Shells
Banana Stalk	Paper
Kitchen Waste	Barbeque
Animal Waste	Sticks

Weight in kilograms = 10.40 kgs.  
Percentage = 52%

# COMPOSITION/SOURCES OF SOLID WASTE

## Special Wastes

Styrofoam      Chemical Bottles  
Used Batteries      Used Oil  
Flourescent Bulbs      Paints  
Funeral Waste      Thinners  
Chemical Waste      Hospital Waste  
Spray Canisters

Weight in kilograms = 1.50 kgs.  
Percentage = 8%

## Recyclables

Metal      Bottles  
Paper Cellophane      Tetra Packs  
Plastic Caps/Cover      Cartons  
Softdrink Crowns      Plastics  
PET Bottles      Tin Cans

Weight in kilograms = 5.80 kgs.  
Percentage = 29%

**Thank You!**

