

Manila Bay Clean-Up Drive Activity at Sapang Balen Creek (Barangay Santa Ines)
In Partnership with the ISIP River Restoration of IAS – Mabalacat City College

A. Introduction

As the soldier of the community in disseminating and setting as the number one motivator for cleanliness and promoting the implementation of proper Solid Waste Management in combatting the worldwide problem regarding the improper garbage disposals, the City Environment and Natural Resources Office (CENRO) headed by Engr. Jesusa V. Santiago, collaborates and supports the Manila Bay Clean-Up Drive Activity, “Makibahagi sa Solusyon, Huwag sa Polusyon” and has joined forces with the Institute of Arts and Sciences headed by Dean Marilyn S. Arcilla, LPT, MAN under Mabalacat City College aiming also for carrying out the ISIP River Restoration. Among the individuals involved on the aforementioned Clean-Up Drive activity includes 15 male street workers coming from CENRO, 5 males and 1 female CENRO employees, all the IAS faculties including 10 males, 6 females, and 1 female from KAYANTABE, and 3 female OJT student trainees from MCC.

On August 30, 2023, Wednesday, in a fair weather condition, the patrolling of the Sapang Balen Creek (Middle Stream) Area begins at 8:30 in the morning with the estimated 75-meter length of the area measured. After patrolling and examining the area, the clean-up drive activity then started with collecting and weighing different types of waste materials which includes the following data gathered:

B. Types of Waste Collected

In identifying the types of waste materials collected the Waste Analysis and Characterization Study also known as WACS is used as guidelines presented by the Mabalacat City CENRO and the following includes:

A. Residual Wastes

The residual wastes collected during the clean-up drive activity include some of the following materials such as (diapers, sanitary napkins, heavily soiled plastics, and others for disposal and food bags and wrappers, plastic cups, styrofoam, and others for potential recycling) and the data of overall total weight garnered a **67.5-kg** with a total of 6 sacks used in weighing the waste materials.

B. Recyclable Wastes

The recyclable wastes collected during the clean-up drive activity include some of the following materials such as (plastic bottles, tin cans, and others) and the data of overall total weight garnered a **12-kg** with a total of 2 sacks used in weighing the waste materials.

C. Compostable Wastes

The compostable wastes collected during the clean-up drive activity include some of the following materials such as (garden waste which includes branches, dried grasses, twigs, leaves, and others) and the data of overall total weight garnered a **13-kg** with a total of 3 sacks used in weighing the waste materials.

D. Hazardous Wastes

No hazardous waste materials were collected during the clean-up drive activity as there were no observed presence of hazardous waste in the aforementioned area.

The overall total weight of different types of waste materials garnered a **92.5-kg** result and a total of 11 sacks are used for keeping the waste material collections. On the other hand, the estimated area that has been cleaned up has been measured as 20-meter in terms of length by width.

Photo Documentation





Waste Analysis and Characterization Study (WACS)




Mabalacat City Waste Analysis & Characterization Study (WACS)

RECYCLABLES	RESIDUALS	SPECIAL WASTE	BIO BIODEGRADABLES																																																																																													
<p style="text-align: center; background-color: #000080; color: white; padding: 5px;">PAPER</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="font-size: 8px;">Selected White Ledger (SWL)</td> <td style="font-size: 8px;">Old Corrugated Cardboards (OCC)</td> <td style="font-size: 8px;">Old (ONP) Newspaper</td> <td style="font-size: 8px;">Mixed Paper</td> <td style="font-size: 8px;">Used beverage cartons (UBC)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; background-color: #000080; color: white; padding: 5px;">PLASTICS</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; background-color: #000080; color: white; padding: 5px;">GLASS</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="font-size: 8px;">BOTTLES</td> <td style="font-size: 8px;">FLAT GLASS</td> <td style="font-size: 8px;">CULLET</td> <td style="font-size: 8px;">ALUMINUM</td> <td style="font-size: 8px;">COPPER</td> <td style="font-size: 8px;">STEEL</td> <td style="font-size: 8px;">TIN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Selected White Ledger (SWL)	Old Corrugated Cardboards (OCC)	Old (ONP) Newspaper	Mixed Paper	Used beverage cartons (UBC)																																BOTTLES	FLAT GLASS	CULLET	ALUMINUM	COPPER	STEEL	TIN															<p style="text-align: center; background-color: #333; color: white; padding: 5px;">RESIDUALS with POTENTIAL FOR RECYCLING</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td colspan="2"></td> </tr> </table> <p style="text-align: center; background-color: #333; color: white; padding: 5px;">RESIDUALS for DISPOSAL</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td colspan="2"></td> </tr> </table>																	<p style="text-align: center; background-color: #FF0000; color: white; padding: 5px;">HAZARDOUS WASTE</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; background-color: #FFD700; padding: 5px;">HEALTHCARE WASTE from HOSPITALS</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; background-color: #333; color: white; padding: 5px;">BULKY WASTE</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="font-size: 8px;">Hazardous wastes are covered under Republic Act 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990) and its related policies, such as Department Administrative Order 2013-22. Industrial, commercial and institutional establishments that generate hazardous waste must be registered with DENR-EMB and obtain the necessary permits.</p> <p style="font-size: 8px;">Healthcare waste must be properly disposed of by hospitals, clinics and other health institutions. Guidelines for their proper disposal are covered by the Healthcare Waste Management Manual published by the Department of Health.</p> <p style="font-size: 8px;">Bulky wastes require separate hauling arrangements with the Local Government Units (for Households) or Contracted Parties (for Commercial, Industrial, and Institutional Sources). Proper treatment or disposal of waste must be ensured.</p>																					<p style="text-align: center; background-color: #008000; color: white; padding: 5px;">KITCHEN WASTE</p> <p style="text-align: center; background-color: #008000; color: white; padding: 5px;">GARDEN WASTE</p> <p style="text-align: center; background-color: #008000; color: white; padding: 5px;">AGRI WASTE</p> <p style="text-align: center; background-color: #008000; color: white; padding: 5px;">LIVESTOCK WASTE</p>
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List of Attendees During the Clean-Up Drive Activity



Republic of the Philippines
Mahabacat City
Province of Pampanga
CITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
gumabacatcemro@gmail.com



Date: 08-30-23

Location: Sta Inos

Activity: Clean up activity with mcc


ATTENDANCE

No.	Name	Gender		Office	Signature
		M	F		
1	FERNANDO MAGAY				
2	JOVAN FELICIANO				
3	BRYAN MAGAY				
4	ALEXANDER GALANG				
5	CORNELIO SICAT				
6	ALEX GALANG				
7	RUSSELL SANCHEZ				
8	ZIERGIE GALANG				
9	ARNOLD MAGALANG				
10	JAIMIE CORTES				
11	JAIMIE LUM				
12	JOHNIE CUNANAN				
13	HENER PIZON				
14	SOLOMON NAVARRO				
15	GENESIC NAVARRO				
16					
17	Patriok Basa				
18	Ariel Mardlangbayan				
19	Ramir Mangalindang				
20	Melanie Tolentino				
21	Allen Malit				
22	Thoik Tua JR				
23					
24					
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Total No. of Participants: _____

-MALE = _____
-FEMALE = _____

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Republic of the Philippines
Mabalacat City
Province of Pampanga
CITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
lgumabalacatcenro@gmail.com



Date: August 30, 2023
 Location: Sapang Bata, Sta. Ines
 Activity: Clean up Drive activity for ISIP River restoration

ATTENDANCE

No.	Name	Gender		Office	Signature
		M	F		
1	Frienchie Ann B. Yamauchi		✓	IAS	
2	Jhannaine A. Delaserna	✓	✓	IAS	
3	Marco Eno Alberto V. Garcia	✓		IAS	
4	Ryana Leigh D. Ceemonte		✓	IAS	
5	ARNEL G. PEREZ	✓		IAS	
6	ARCELIN M. ADRIBANO		✓	IAS	
7	Michael A. Mesa	✓	✓	IAS	
8	Gracia T. Comlan		✓	IAS	
9	Dimalanta, Genesis G.	✓		IAS	
10	Arboleda, Carol K.		✓	KATAMBAE	
11	Gilva Nolasco			IAS	
12	Allison Amile P.			IAS	
13	Richard Daniel Suly			IAS	
14	Michael Bryan Urtiga	✓		IAS	
15	Edman Y. Sampane		✓	IAS	
16	Athena, Jenny Lou P.			IAS	
17	Diaz, Darren C.	✓		IAS	
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Total No. of Participants: _____
MALE = _____
FEMALE = _____

CS Scanned with CamScanner

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Republic of the Philippines
Mabalacat City
Province of Pampanga

CITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

igumabalacatenro@gmail.com



Date: 08-30-23

Location: Sta. Ines

Activity: Clean up activity with mcc

ATTENDANCE

No.	Name	Gender		Office	Signature
		M	F		
1	Karela P. Mandat		/	CENRO	<i>Karela P. Mandat</i>
2	Giselle O. Santos		/	CENRO	<i>Giselle O. Santos</i>
3	Maria Crystal P. Chua		/	CENRO	<i>Maria Crystal P. Chua</i>
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