

Septage Management in the Philippines

A tale of two cities: Dumaguete and Baliwag



The Philippine Clean Water Act (2004)

- Provides guidelines in the protection of water resources
- Mandates that local governments put up septage management facility and allows them to charge fees
- Requires the preparation of the National Sewerage and Septage Management Program (NSSMP)

Dumaguete City



Population: 131,400

Baliwag, Bulacan



Population: 149,900

Implementation

Dumaguete City

Partnership between
the City Water
District and the City
Government.

Started operations in
2010

Baliwag, Bulacan

Partnership between
the City Water
District and the
Private Sector.

Started operations in
2012

Financing

Dumaguete City

Borrowed money (\$500,000 USD) from the city's own operations funds.

Facility constructed through administration. Also included 6 refurbished trucks

Baliwag, Bulacan

Borrowed money (1.5 Million USD) from a commercial bank at 7% interest.

Facility constructed by private contractor. Also included 2 new trucks.

Technology

Dumaguete City (2 ha)

Passive system using
waste stabilization
ponds and wetlands



Baliwag, Bulacan (.5 ha)

Fully mechanized
system using screw
press and SBR



Tariffs and fees

Dumaguete City

About \$1 USD per family per month.

Achieved full cost recovery in 2016 (6 years)

Baliwag, Bulacan

Initially about \$.85 per family per month, but increased after 1 year to \$1 USD per family per month.

Will achieve full cost recovery in 2022 (10 years)

Scheduled desludging

Dumaguete City

Started out with door to door scheduled desludging, but switched to on-demand in 2012 due to low participation.

Planning to go back to scheduled this year

Baliwag, Bulacan

Split the city into 5 zones. Within the zone, desludging is on-demand (organized desludging)

Promotions campaigns

Dumaguete City

“Save the Boulevard”. A campaign suggesting that septage management will improve conditions along with water front and be a driver of economic development



Promotions campaigns



Baliwag, Bulacan

Focused on health aspects of sanitation improvement.

Local ordinance

Dumaguete City

Baliwag, Bulacan

Both cities have promulgated local ordinances on septage and sanitation. The ordinance provides:

- Requirements that all sludge and septage be brought to licensed facilities
- Requires proper septic tanks for new construction
- Licensing and inspection of septage vehicles
- Penalties for non-compliance

~~Waste~~ Flow Diagram – baseline conditions

SHIT

