### INSTITUTIONALIZING SEPTAGE MANAGEMENT IN A LOCAL GOVERNMENT UNIT - A Case Study of Dumaguete City

#### Situational Analysis of Water Resources by Community

- City, provincial and National Government officials
- Academe universities, colleges
- Business Sector
- Religious Groups
- Market Vendors
- Village Officials
- Hospitals/health services
- Young Adults



#### **Issues and Concerns**

- Deteriorating quality of coastal waters
- City's sources of water supply – 16 deep well and 1000 shallow wells
- No sewerage system
- Approximately 20,000 poorly designed, constructed and maintained septic tanks.
- Indiscriminate disposal of septage.

# Strategies; Priority Programs and Projects

- Construct a citywide sewerage system;
- Construct decentralized systems
- Implement a citywide septage management system
- Legislate or enact a local ordinance on septage management.

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Multi-Sectoral Community Consultative Meetings on Wastewater Management Issues



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Legal Basis for Implementing Septage Management System

- 2004 National Clean Water Act
- SECTION 7. National
  Sewerage and Septage
  Management Program.
   ...... local government
  units (LGUs) and other
  concerned agencies,
  shall, as soon as
  possible, but in no case
  exceeding a period of
  twelve (12) months from
  the affectivity of this Act,
  prepare a national
  program on sewerage
  and septage
  management .....

2006 City Ordinance Establishing a City-wide Septage Management System

- Design standards of Septic Tanks
- Proper maintenance of septic tanks.
- Regular desludging of septic tanks.
- Implementation of septage "user fee" of US\$0.05 per cubic meter of water consumed to recover capital and operating costs of the septage management system.
- Organization to manage the septage management system.
- Massive information campaign on wastewater and social marketing of septage management.

Economically and Technologically Feasible Septage Treatment Plant









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## Start-Up Capital and Operating Costs of the Septage Management System:

Joint Venture Agreement with the Dumaguete City Water District, a water utility corporation owned and controlled by the government.





Contribute 50% of Capital and Operating Costs

Supervise the Construction of the Septage Treatment Plant

Operate the Septage Treatment
Plant and Ensure Standards
are Met

50% Share of Any Net Income (to be used for environmental programs)

### Dumaguete City Water District

Contribute 50% of Capital and Operating Costs

Collect and Transport Septage to Treatment Plant

Collect Septage"User Fees" as Add-On to Monthly Water Bill

**Maintain Financial Records** 

50% Share of Any Net Income

#### Information Campaign and Social Marketing











#### **MAGPAKABANA**

Tabang paglimpyo sa tinubdan sa tubig

Bayaran ta ang "Septage Fee" diha sa DCWD.

Ubos ra ang bayranan, Inyong Septic Tank Haw-asan sa

Dumaguete City Water District ug City Government of Dumaguete

Alang sa dugang kasayuran tawag sa DCWD 422-6961 ug ENRO 225-9981



Meeting with Village Officials on the Proposed Septage Treatment Plant.



Public Hearing on the Proposed Septage Management Ordinance, December 2005.