



# WATER ASSOCIATIONS MEETING

By  
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## OUTLINE

- Non Governmental Organization (NGO) in Malaysia and its' roles.
- The Malaysian Water Association (MWA)
- MWA Roles With the Water Operators/Public

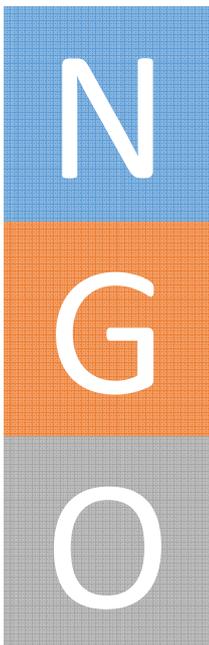


## Non Governmental Organization (NGO)



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## Non-governmental Organization (NGO) Broad definition of NGOs and their roles



### Non-profit entities

NGOs, are generally defined as non-profit entities independent of governmental influence



### Environmental, Social & Human Rights

NGO activities include, but are not limited to, environmental, social, advocacy and human rights work



### Promote sustainable change

NGOs work to promote social or political change on a broad scale or very locally and always aimed at promoting a sustainable environment despite having limited resources



### Improve community's participation

NGOs play a critical part in developing society, improving communities, and promoting citizen participation

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# Non-governmental Organization (NGO) NGOs in Malaysia's Water Industry



1. **Malaysian Water Association (MWA),**
2. **SWAN, AWER, Malaysian Nature Society (MNS),**
3. **Environmental Protection Society of Malaysia (EPSM),**
4. **World Wide Fund for Nature (WWF),**
5. **Sahabat Alam Malaysia (SAM),**
6. **ENSEARCH, Penang Water Watch, Forum Air Malaysia,**
7. **MyWP, Global Environmental Centre (GEC),**
8. **Malaysian Society of Marine Sciences (MSMS),**
9. **Sabah Wetland Conservartion Society,**
10. **Sustainable Develepment Network Malaysia (SUSDEN),**
11. **Wetlands International (Malaysia). etc**



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## MALAYSIA WATER ASSOCIATION



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## ACTIVITIES

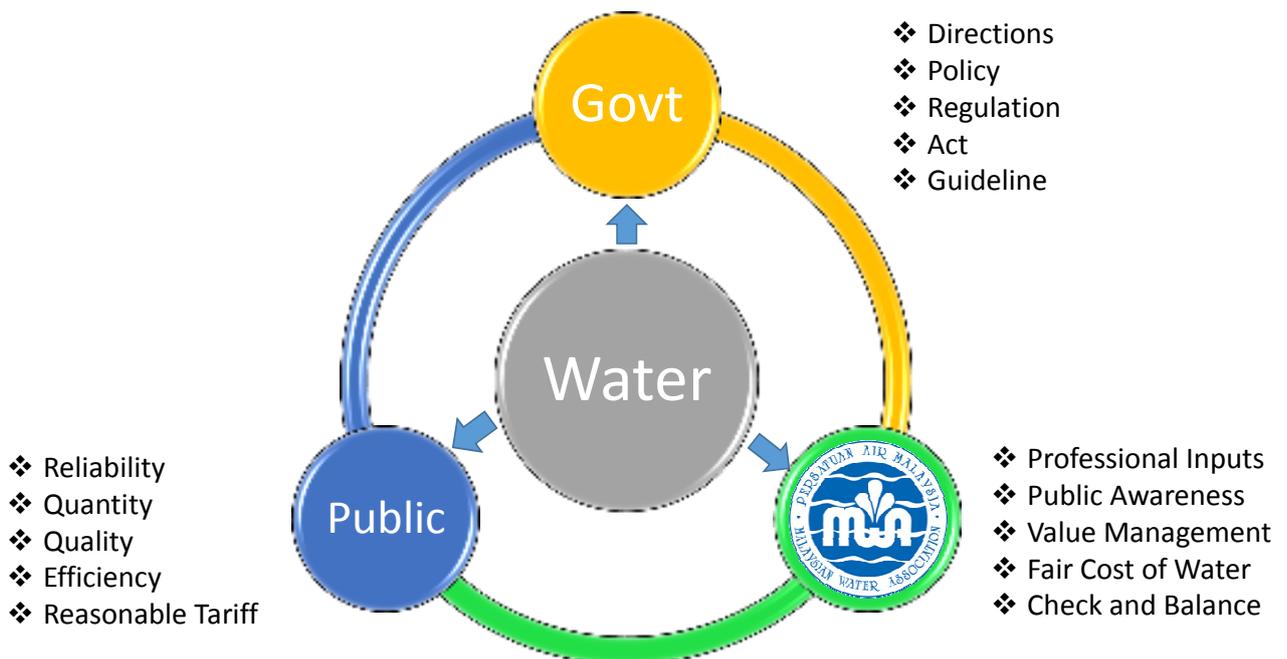
- General informative and interactive sessions on water issues
- Social and networking events
- Mentoring and leadership opportunities
- Presentation/public speaking opportunities and career development sessions
- Access to volunteer and community outreach programmes
- Conference, Seminar and Workshop
- Joint events and links to other organisations

**Malaysian Water Association** is founded in 1988

Managed by an elected Council on an entirely voluntary, non-profit basis consisting professionals with experiences in the water and wastewater sector



The roles MWA plays with the Public and the Government





## Water Supply Operational Issues:



# Pollution Its Impact



Reduced water resource



Economic cost for cleanup



Contaminated lands



Habitat degradation



Social and Health issues



Lower quality of life

# Source of Raw Water Example of Issues / Challenges



## State's Responsibility in Managing Raw Water Source

- Federal has the role in managing treated water but very much still depending on state's role in managing the source
- State need to mitigate problems at source

### Contaminated River

Resulting in closure of water treatment plants and disruption of supply

### Unprotected Catchment

Leads to poor dam quality

Roles of all Parties:

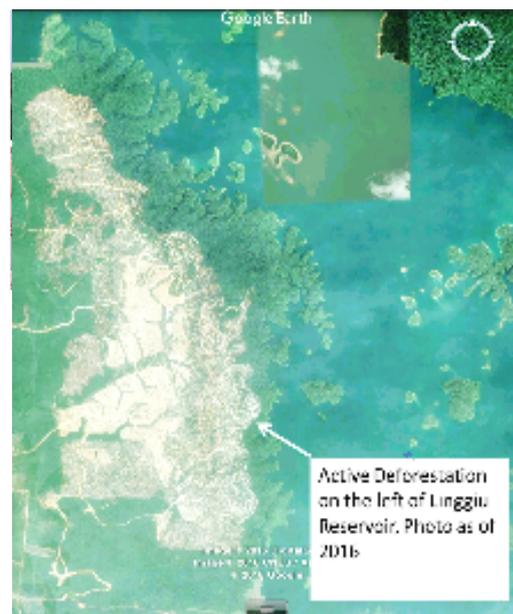
1. MWA: Awareness, Develop Policies
2. State Government: Enforcement and Regulation
3. Public: Alert

# Source of Raw Water

## Example of Issues /Challenges Johor



The series of photographs shows the reduction of water stock in Linggiu reservoir. With the changes surrounding the catchment, weather changes likely to occur. The prolong draught can reoccur again



The photograph depicts the massive deforestation taking place around the Linggiu Reservoir, photograph taken in 2016 (Source is Google Map)

# Source of Raw Water

## Example of Issues / Challenges - Johor

### Sg. Johor

- Mining Activities
- Discharge of pesticides without control

### Sembrong Dam

- Discharge from Pig Farms
- Activities within catchment area , pesticides have created algae issues to the existing water treatment plant leading to closure and increase in treatment cost with the frequent need to back wash and higher chemical consumption. This has also lead to injection of improvement works that uses fund- finally for public to incur through the full cost recovery is not fair.



# Source of Raw Water

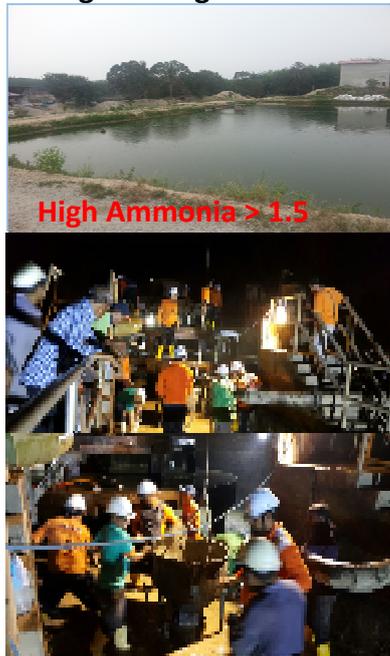
## Example of Issues / Challenges - Melaka

### Mining Activities



High NTU > 1000

### Fishing Farming Activities



High Ammonia > 1.5

### Agricultural Activities



Low pH < 5.5

# Source of Raw Water

## Example of Issues / Challenges - Perak

### Sg. Perak & Sg Kinta

Quality affected due to uncontrolled developments resulting in river water quality averaging 80-100 NTU



# Source of Raw Water

## Example of issues / Challenges – Penang: Ulu Muda



**1/2/2017 PRESS STATEMENT**  
 By Dato' M. Anwar Ibrahim,  
 CEO, Penang Water Services  
 PBA, Malaysia Water Services Association  
 and Penang Bersekas Air Plus (PBAPAP)

**ULU MUDA: KEDAH SHOULD CLARIFY THE TRUTH ABOUT LOGGING**

Penang Water Services Association (PWSA) and Penang Bersekas Air Plus (PBAPAP) have issued a press statement regarding the discovery of a new trail near Muda Dam in Kedah, Malaysia. The statement expresses concern over the potential impact of logging activities on the Ulu Muda Forest Reserve, which is a critical water source for Penang.

On 12/2/2017, newspapers and news portals published comments attributed to Kedah Water Resources, Housing and Local Government Committee Chairman, Dato' Anwar Ibrahim, regarding the logging activities in the Ulu Muda Forest Reserve.

However, on 14/2/2017, The Star published a news report with the headline 'Ulu Muda no longer a paradise'. In this report, it is stated that the Ulu Muda Forest Reserve is 140,000 ha according to the World Wildlife Fund (WWF), while the Kedah Water Resources, Housing and Local Government Committee Chairman, Dato' Anwar Ibrahim, stated that the total area of the Ulu Muda Forest Reserve is 41,215 ha or 104,969 ha?

The report also quoted the 2015 Kuala Lumpur Report on Logging and the Ulu Muda Forest Reserve as follows:

Year	Area (ha)	Forest (ha)
2009	40,000	10,000,000
2010	7,000	16,500,000
2011	12,000	18,000,000
2012	15,000	20,000,000
2013	18,000	22,000,000
2014	20,000	24,000,000
Total	48,000	236,500,000

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### 'Come clean on logging in forest reserve'

Penang urging Kedah to clear the air over discovery of new trail near Muda Dam

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### Fresh logging at Ulu Muda water catchment area

As Gadang the best of the best in the pool of water catchment areas



**Days of crystal clear water over for loggers**

**So far, no new logging in 2017, says water trust**



### Cutting off our water supply

Quarantined logging sites will cut off water supply to people cutting them off

# Source of Raw Water

## Example of Issues / Challenges - Pahang

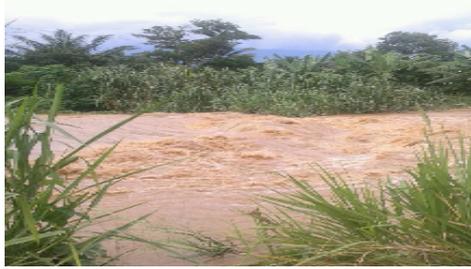
Sg. Bilut



Sg. Tras

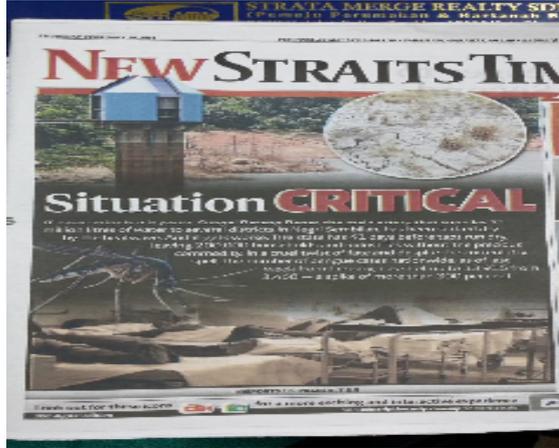


Sg. Klau



# Source of Raw Water

Example of Issues / Challenges - Kelantan



ISU SUNGAI KERING DI TANAH MERAH



## Sustaining Water Resources – Pollutants of Concern

### Point Source Pollution



Regulated under EQA 1974, Effective?

### Non-Point Source Pollution



New Legislation?  
New Innovative technologies and controls?

### Emerging Pollutants



Research Needed?

MWA Bridges Technology Providers with Water and Sewerage operator for better operating efficiency

1. Technology Talks
2. Technology Visits
3. Asia Water
4. Malaysia Water
5. Pilot Projects
6. IWA Aspire Conference.
7. Awareness Programmes

## Concluding on MWA's role as a the Prime NGO for the Water Industry



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### Contribution of MWA's Role

- MWA has contributed significantly to the water sector by undertaking research, conferences, forums, dialogues, trainings and publication on water, environment and development related issues and bringing them to the forefront of policy makers and the public.
- MWA has provided much needed institutional support to government specific to the local needs such as leading initiatives to establishment of the regulatory framework, supporting partner in the pilot project on the IWRM on Sg Selangor in early 2000's, Save Water Campaign with KeTTHA and Span, input to KETTHA on the Water Blueprint, on WDM with Akademi Sains Malaysia, SDG preliminary dialogue with KETTHA,
- Besides training, MWA had in various times also promote discussion, debate, advocacy and awareness about environmental issues (Sludge Disposal), natural resource conservation (views on Catchment protection) and the restoration of ecosystems.
- MWA had played some role in sensitize policy makers about the local needs and priorities and promote eco-friendly practices.
- Fostering youths with sustainability information as they are the future leaders.

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## Collaboration With Asian Water Associations



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## Possible Collaboration

- Sharing experience, knowledge, skill and synergise of expertise
- Business networking and institutional strengthening
- Capacity building and training



**THANK YOU**

**SUSTAINABILITY THROUGH ZERO MANAGEMENT CONCEPT FOR TOTAL RECYCLE AND ENERGY SAVINGS**

