

WATER

PROJECT

2022
UPDATE

2021 - 2023

WATER STEWARDSHIP

AGENDA II

Working Actively Through Education and Rehabilitation (W.A.T.E.R) Project was launched in 2007 by SPARK Foundation in collaboration with Global Environment Centre (GEC) and supported by key Government agencies. This project is carried out in three (3) phases with different focus areas. The third phase focuses on the second part of Water Stewardship Agenda II.



Sustain and enhance Sg Way as a model urban river in an industrial zone

Protect the shared water resources



Support urban poor and rural communities with alternative water supply systems to mitigate water disruptions

Mobilize local communities towards active involvement in river management and watershed protection



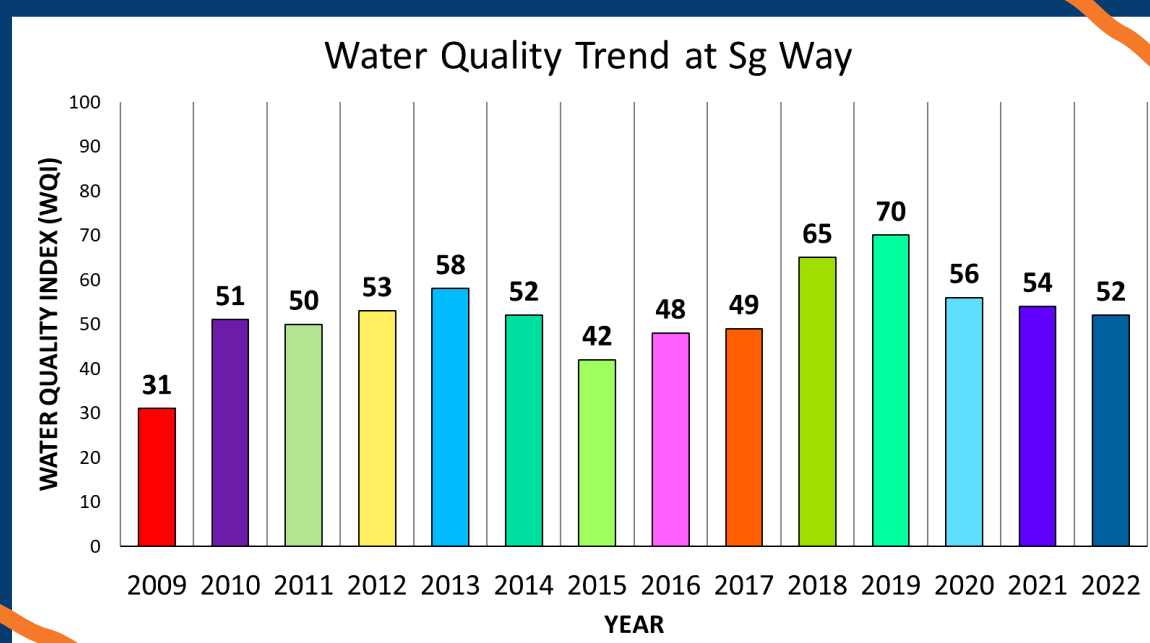
MAIN GOALS OF WATER STEWARDSHIP AGENDA II

STRATEGY

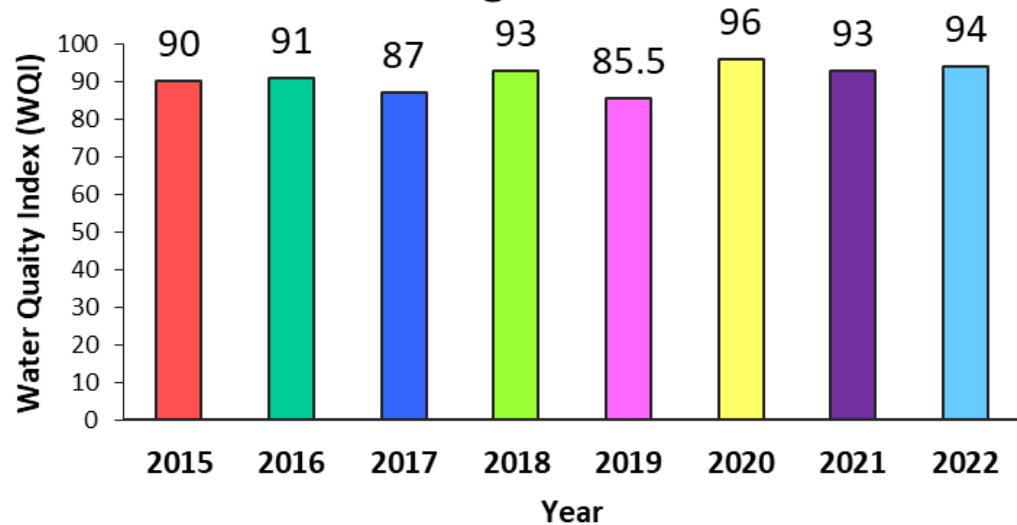
- 1 REHABILITATION AND AWARENESS ON RIVERS AND WATER SOURCE
- 2 ALTERNATIVE WATER SYSTEMS
- 3 WATERSHED HEALTH PROTECTION
- 4 STAKEHOLDER ENGAGEMENT

KEY ACTIVITIES (OCT– DEC 2022)

The current water quality for Sg Way is Class III (52). Six parameters were tested (pH, Total Suspended Solids (TSS), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Ammoniacal Nitrogen (NH₃-N) and Dissolved Oxygen (DO)).



WQ Trend of Sungai Penchala Source



Water quality and biodiversity study was conducted at the source of Sg Penchala. The WQI is still maintained at Class I with 94.

Biological monitoring observes life in the river and uses living organisms as biological indicators of the river. Biological Water Quality Index (BWQI) of a river can be determined by calculating the biological indicator score value. Benthic macroinvertebrates identified at Sg Way included non-biting midge larvae, aquatic soil worm, beetle, pond snail and small fish, giving Sg Way a BWQI of 2.0 (dirty water). The BWQI for source of Sg Penchala is 5.67 (clean water), with small fishes, shrimp, pond skater, mayfly nymph and one tailed dragonfly found.

Good - Moderate Bio-indicator



Photos taken at source of Penchala River (16 Nov 2022).

Bad Bio-indicator



Photo taken at Sg Way River (14 Dec 2022).



A total of two (2) main new signboards and four (4) station signboards installed. The station signboards included source of Penchala River, voice of the stream, meandering and river health monitoring spot.



A training session for restaurants and community members was conducted on 11 November 2022 as part of the pollution control at source initiative. Four demonstrators from two companies (CSOil & Fat Sdn Bhd and Kualiti Alam Hijau (M) Sdn Bhd) provided demonstration on best practices for used cooking oil collection and fat, oil and grease (FOG) trap and used cooking oil collection, respectively.



AFTER
EVENT



Installation of FOG trap at restaurants (*above*) and giving used cooking oil collection kit to restaurants and oil spill kit for car workshops (*left*).

CHALLENGES

- Flooding and continuous rain which affected the wetland islands.
- Difficulty in engaging business community especially restaurants and car workshops to adopt BMP due to low interest, and poor ownership towards river.

UPCOMING MAIN EVENTS

Project Working Group

Q1
2023

Sg Way River Education and
Clean Up activity

Q2
2023

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