

**REDISCOVER
RECONNECT**

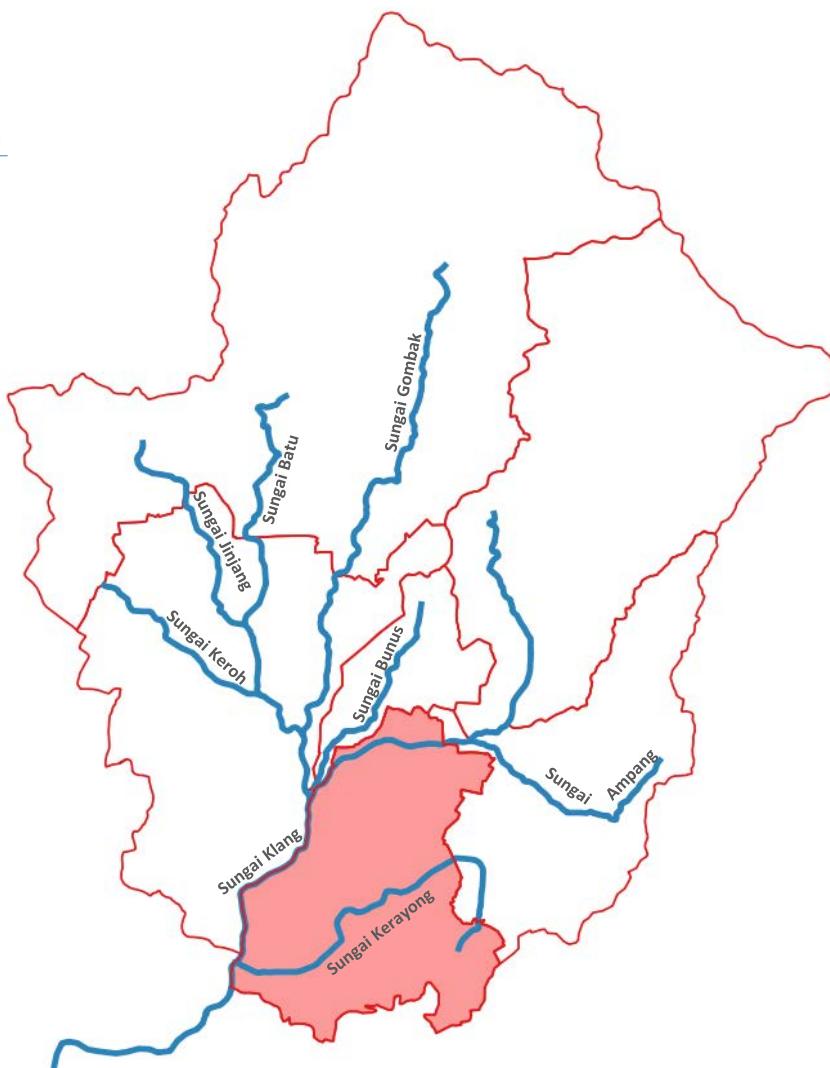




Transform
10
Years
Programme

8
Rivers

ROL AREA



3 MAJOR COMPONENTS TO THE RIVER OF LIFE PROJECT

RIVER CLEANING

Improve River Water Quality along
110km
covering
8 rivers
by 2020



RIVER BEAUTIFICATION

Beautify
10.7km
stretch along the Klang and Gombak river corridors,
11 Precincts and 9 Packages
to be completed by 2019



COMMERCIALISATION & TOURISM

Maximise the
social and economic potential
of the Klang and Gombak Riverfronts



Achievement So Far

- 1** Flood retention pond built in Puah (Sentul)
- 5** Wastewater treatment plants built
- 8** Sewerage treatment plants upgraded
- 8** Water treatment plants built
- 13** km of riverbanks repaired
- 69.8** km of connections to sewerage pipe network
- 231** Communal grease traps installed at public food courts
- 504** Gross pollutant traps, trash rakes and log booms installed



RIVER BEAUTIFICATION



REDISCOVER
RECONNECT



RIVER BEAUTIFICATION



REDISCOVER
RECONNECT

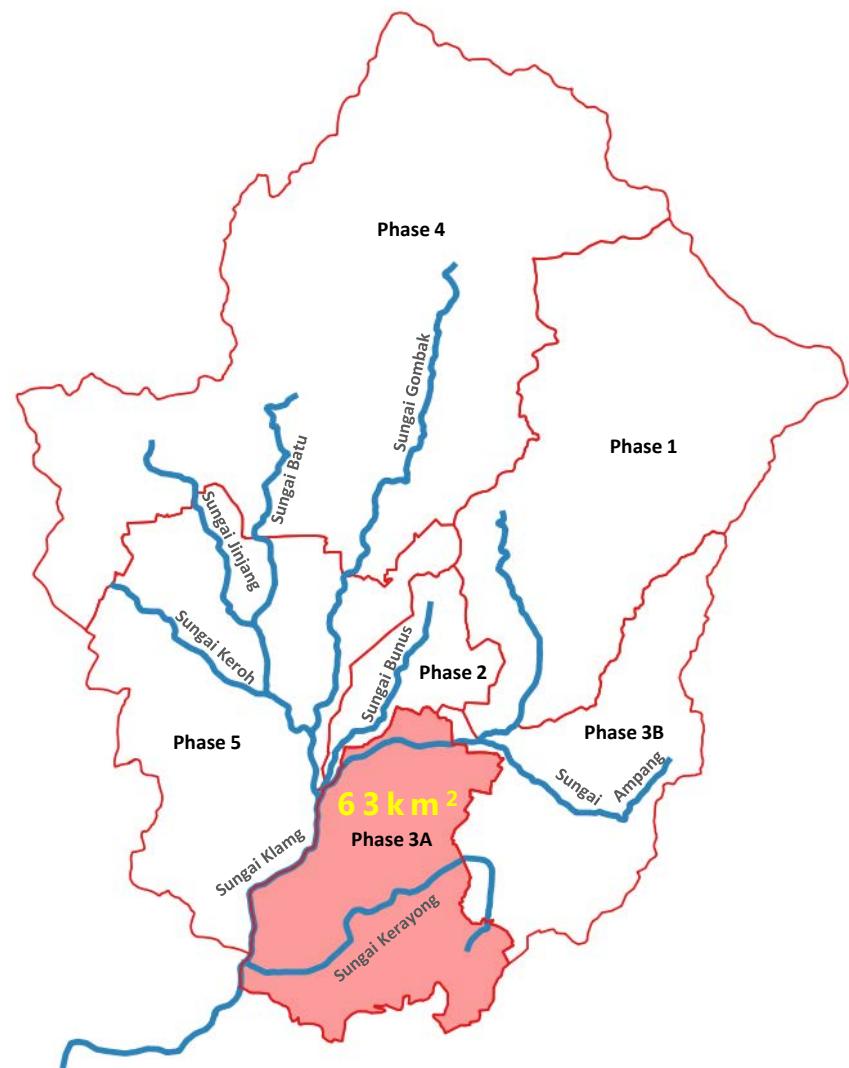




Phase 3A

Public Outreach Programme

PHASE 3A



OBJECTIVES

“ To generate evidential improvement in attitudes and behaviors of target groups within the Project Area towards river care and preservation in order to improve water quality and reduce pollution within project area. ”



General
Public



Local
Communities



Educational
Institutions



Food
Establishments



Industries



REDISCOVER RECONNECT | 

ROL'S CITIZEN EYE APP

REPORT to us if you saw someone polluting a river.

SHARE with us if you saw someone doing a good job in protecting a river.

Available at

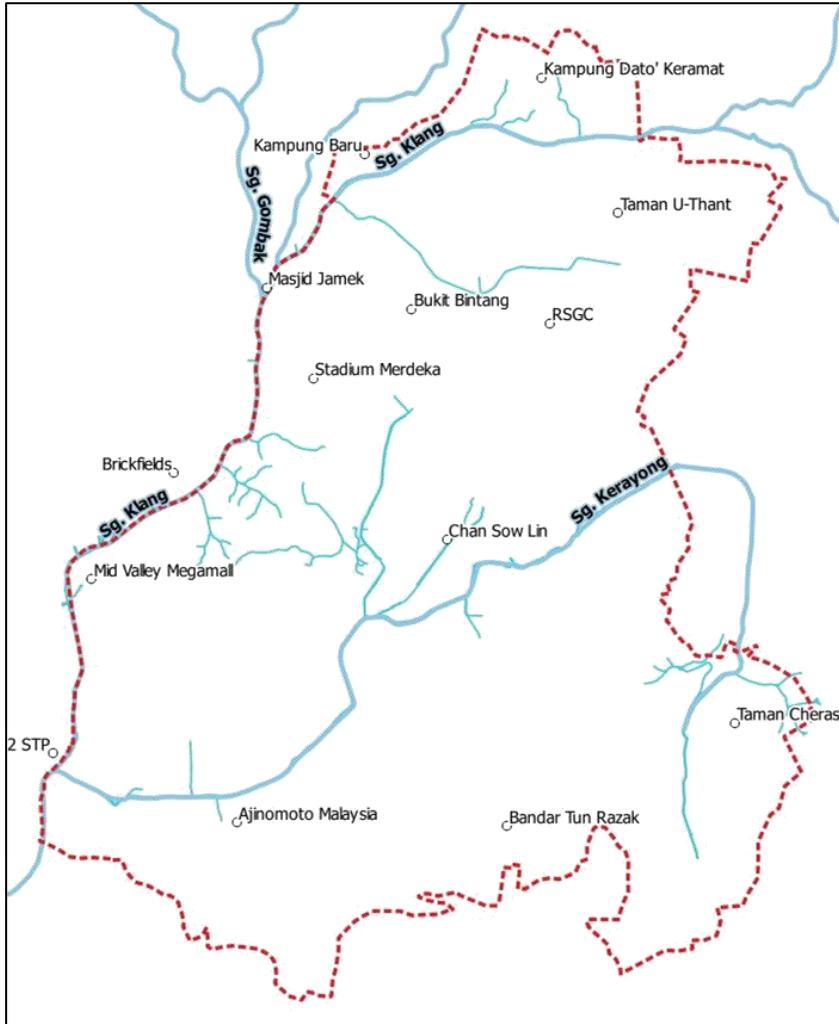
 





Sungai Kerayong

RIVER SYSTEM



- Sg. Kerayong – 12.5 km
- Substantial proportion of streams have been canalised/covered



LAND USE



Residential
33.6%



Public
Institution
22.5%



Commercial
10.8%



Vacant Land
10.9%



Industrial
4.2%



Squatters
1.5%



Cemetery
4.6%



Other
Institution
0.3%



Open Space
11.5%



Total population: 456,737



Total household: 122,493



Total educational institution: 223



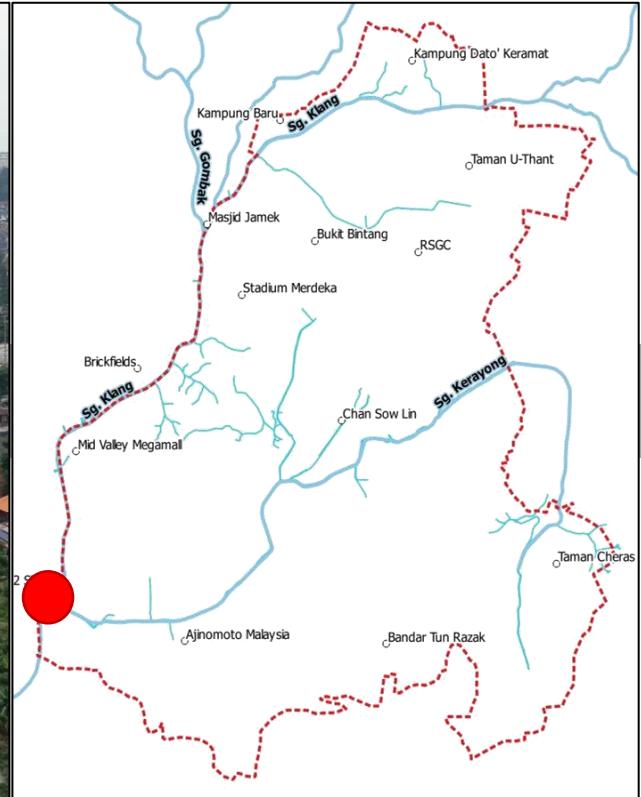
Restaurants: 3,572

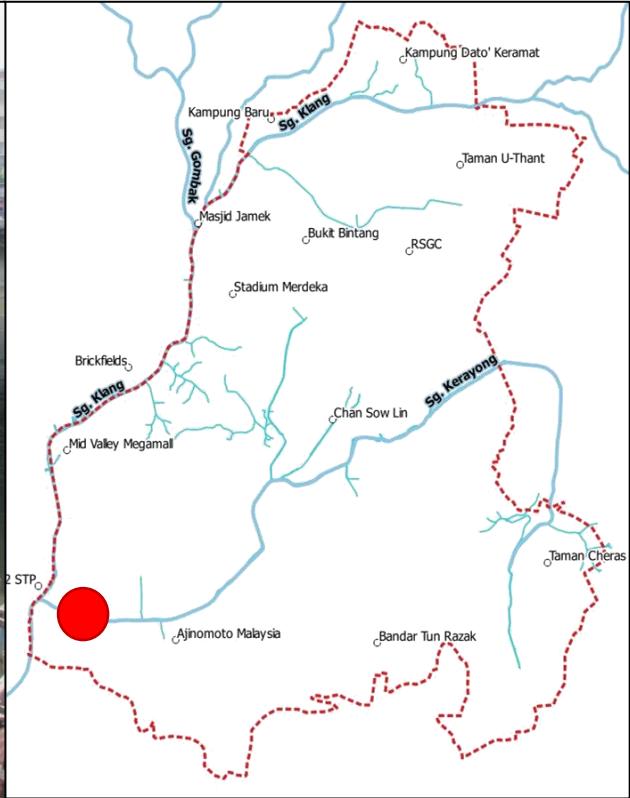


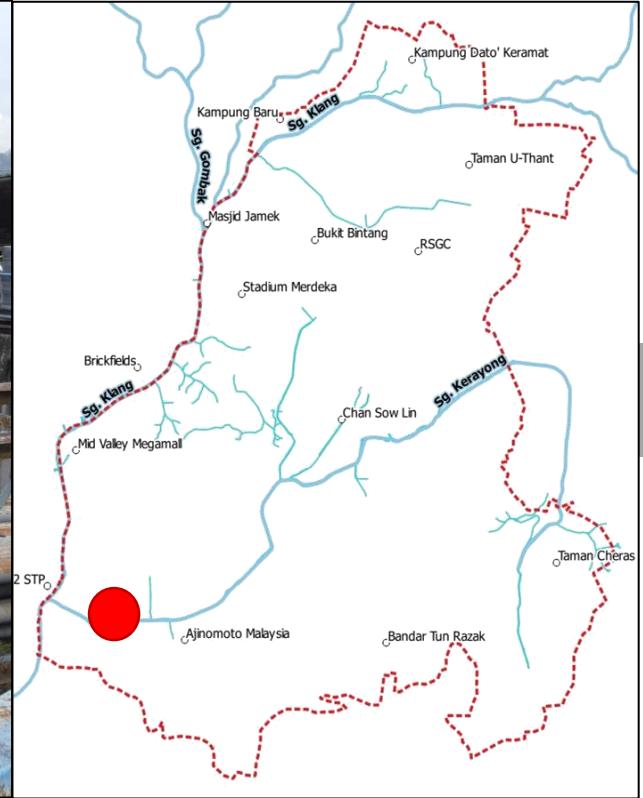
Registered industry: 56

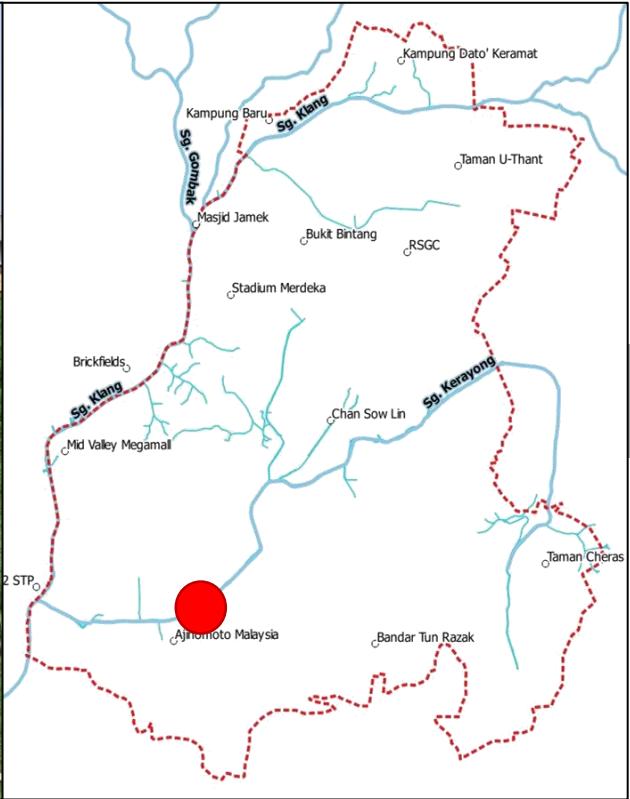


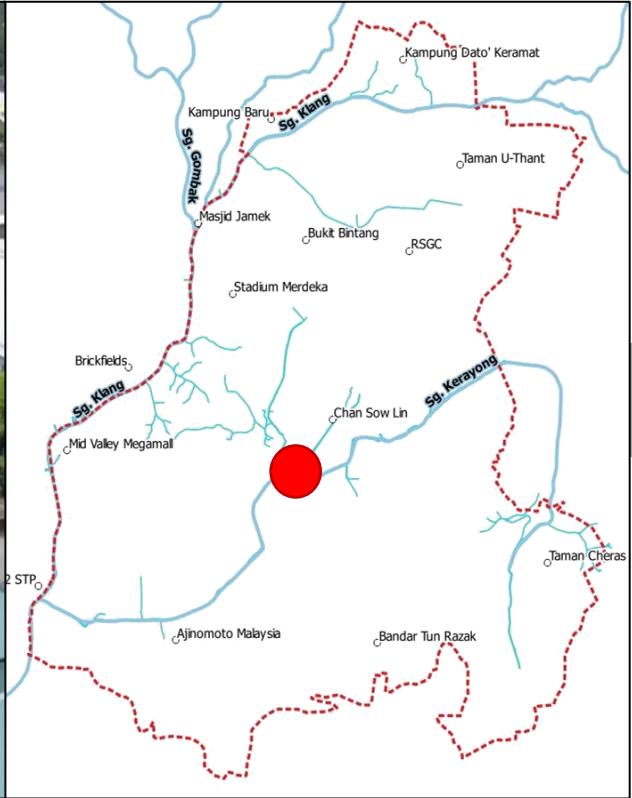
Car service centre: 103

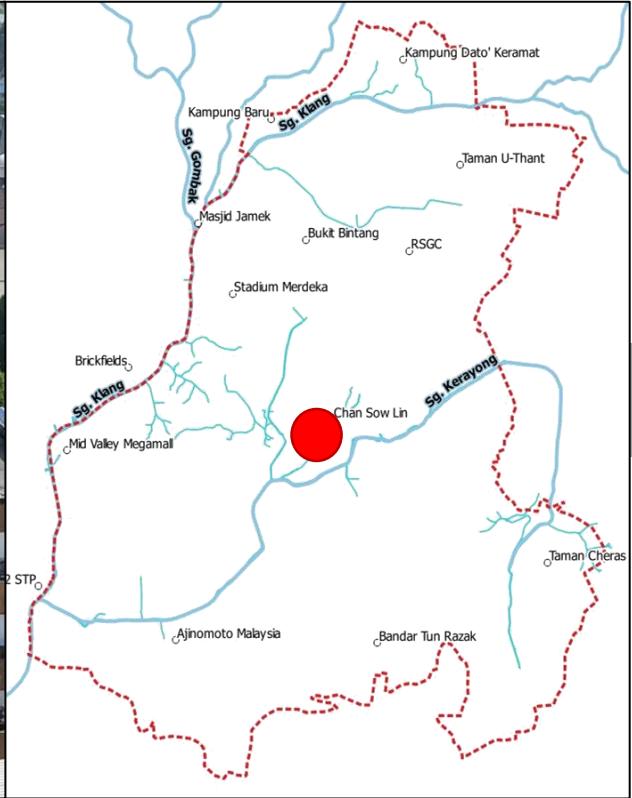


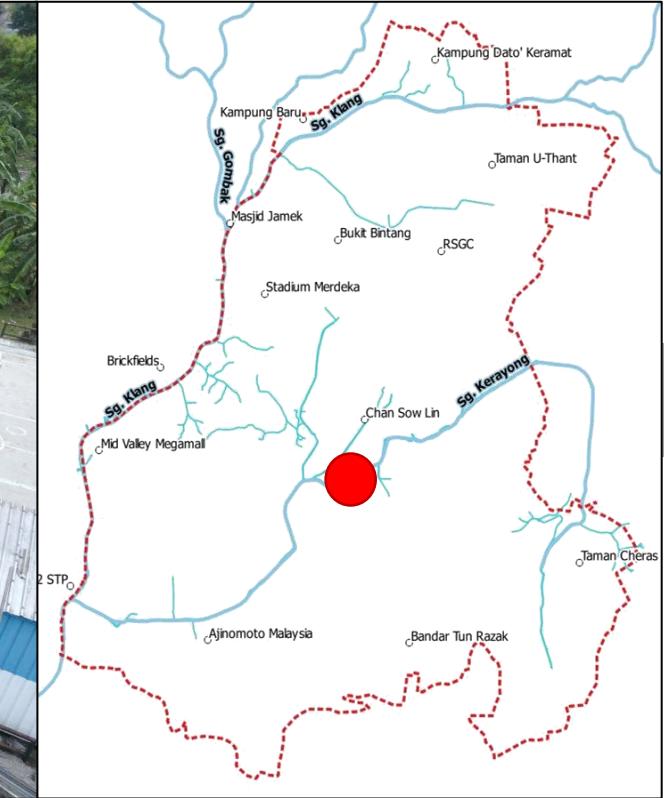












PEOPLE OF KERAYONG



Issues in Sungai Kerayong

DOE WATER QUALITY INDEX

PARAMETER	UNIT	CLASS				
		I	II	III	IV	V
Ammoniacal Nitrogen	mg/l	< 0.1	0.1 – 0.3	0.3 – 0.9	0.9 – 2.7	> 2.7
Biochemical Oxygen Demand	mg/l	< 1	1 – 3	3 – 6	6 – 12	> 12
Chemical Oxygen Demand	mg/l	< 10	10 – 25	25 – 50	50 – 100	> 100
Dissolved Oxygen	mg/l	> 7	5 – 7	3 – 5	1 – 3	< 1
pH	-	> 7.0	6.0 – 7.0	5.0 – 6.0	< 5.0	> 5.0
Total Suspended Solid	mg/l	< 25	25 – 50	50 – 150	150 – 300	> 300
Water Quality Index (WQI)		> 92.7	76.5 – 92.7	51.9 – 76.5	31.0 – 51.9	< 31.0

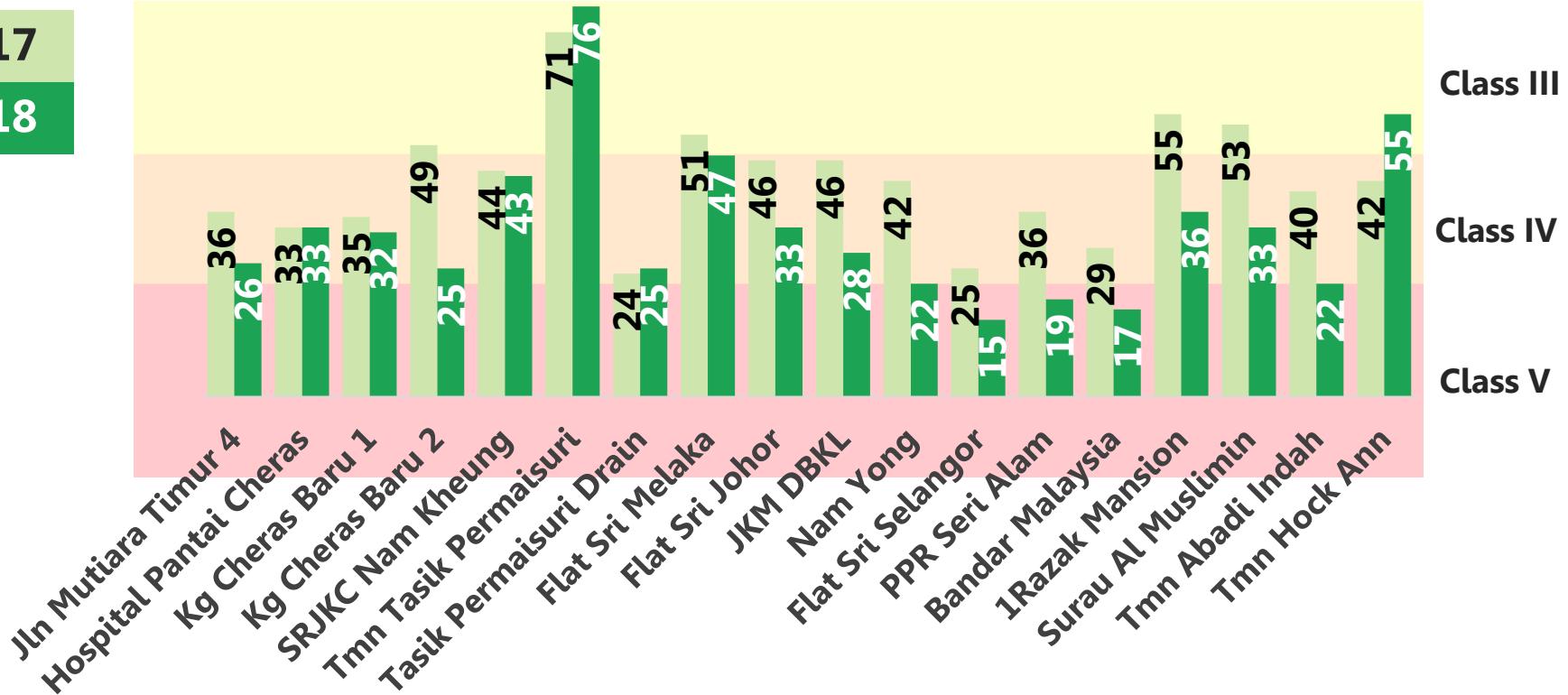
WATER CLASSES AND USES

CLASS	USES
Class I	Conservation of natural environment. Water Supply I – Practically no treatment necessary. Fishery I – Very sensitive aquatic species.
Class IIA	Water Supply II – Conventional treatment required. Fishery II – Sensitive aquatic species.
Class IIB	Recreational use with body contact.
Class III	Water Supply III – Extensive treatment required. Fishery III – Common, of economic value and tolerant species; livestock drinking.
Class IV	Irrigation
Class V	None of the above.

WATER QUALITY

2017

2018

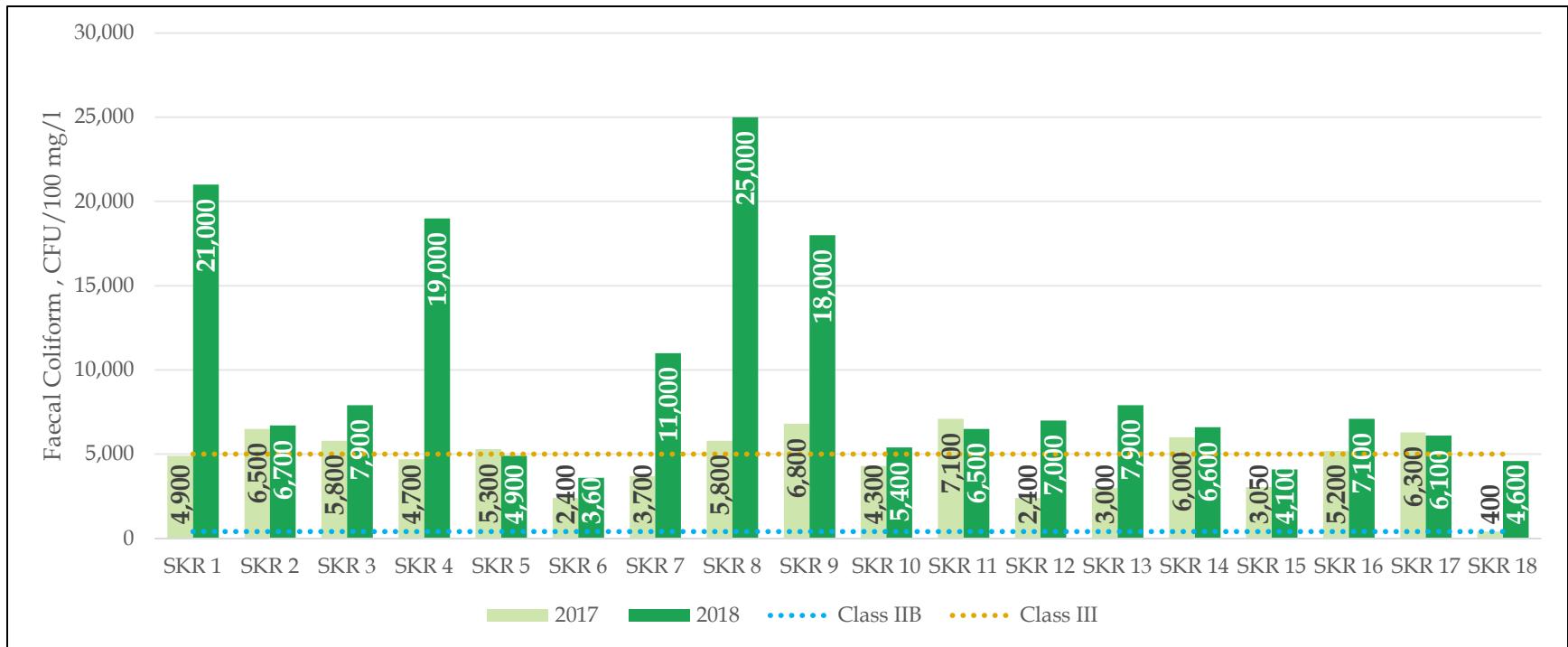


FEACAL COLIFORM



- National Water Quality Standards for Malaysia is 400 count/100ml
- Feacal coliform in Sg. Kerayong ranges from 3,600 to 25,000 count/100ml

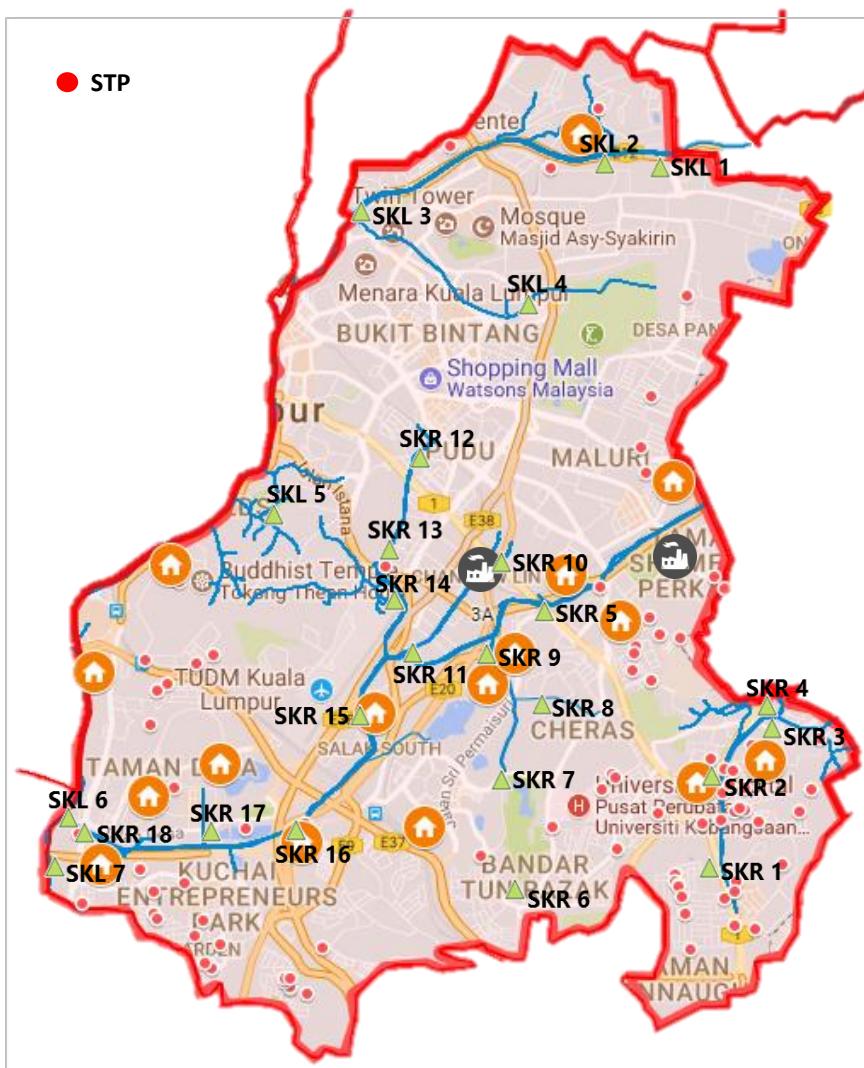
Comparison of Faecal Coliform at Sungai Kerayong for 2017-2018





FEACAL COLIFORM

- Stations SKR 8 Flat Seri Melaka at 25,000 CFU/100ml
- SKR 1 Jalan Mutiara Timur 4 at 21,000 CFU/100ml.
- Feacial coliform bacteria can enter rivers through direct discharge of waste from mammals and birds, from agricultural and storm runoff, and from human sewage
- Sewage source possibly from STP.



SOLID WASTES

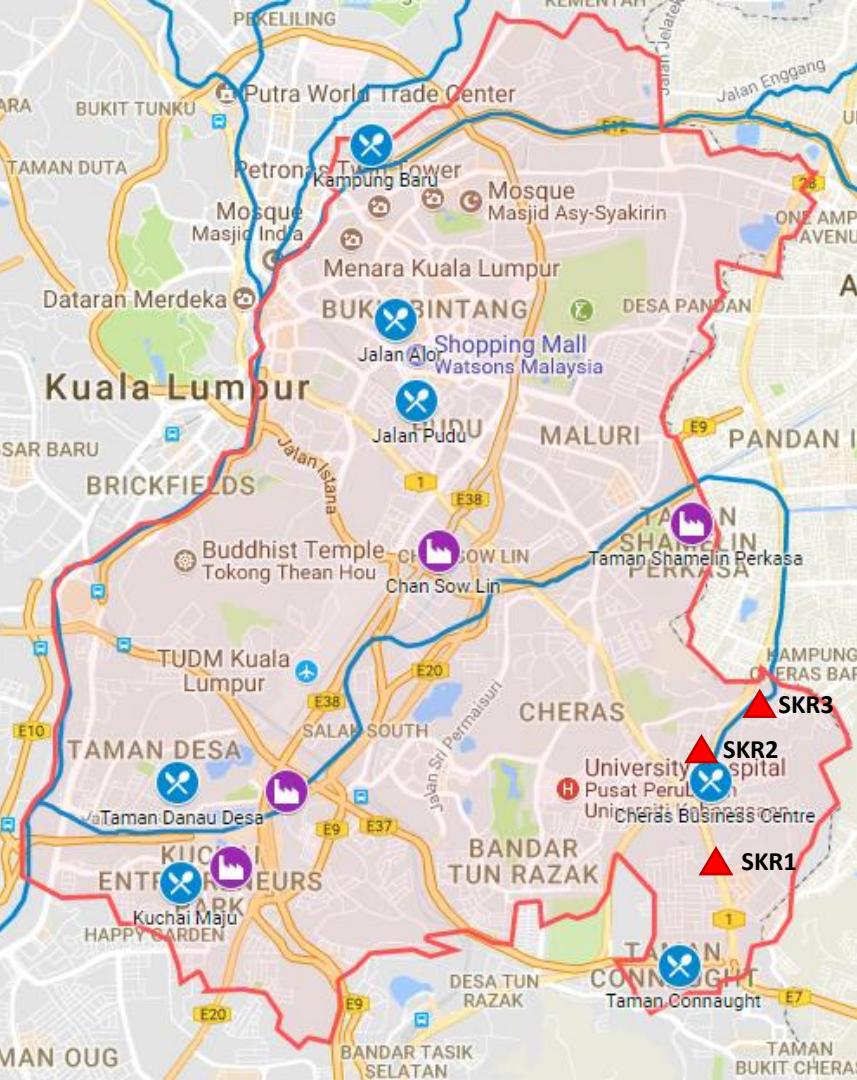


- Average **1229kg/month** collected at log boom (2017)
- Average **1107kg/month** collected at GPT
- About **RM500,000/month** for maintenance



Oil & Grease

- Oil and Grease reading at stations SKR 1 Jalan Mutiara Timur 4, SKR 2 Hospital Pantai Cheras, and SKR 3 Jalan 23 Kampung Cheras Baru showed an increase in reading while station SKR 4 Jalan 29 Kampung Cheras Baru remains the same; the rest of the sampling stations showed decreasing oil and grease content.
- Sources of oil and grease are typically from fugitive runoff from car workshops as well as poor use of oil and grease traps.



ENCROACHMENT OF RIVER BANK



TAKE HOME POINTERS



Authorities



Maintenance



Inclusive