

# What is the RIVER Ranger Programme?

RIVER Ranger is a comprehensive program for schools on the environment, water resources and rivers, which emphasizes not only about water pollution but every aspect of freshwater ecosystems including its biodiversity, functions, values, and benefits to mankind.

# Where it all began

The RIVER Ranger Programme developed through the SMART (Start Managing All Resources Today) Ranger Programme, a sustainable resource management programme. The programme began with a focus on Solid Waste Management and teaching students the importance of resource management and recycling. As it progressed, the training modules began to develop another angle - one that linked improper solid waste management to the state of our rivers.

Soon it was clear to see that this could be developed into another education programme by itself as it involved many more issues, and needed a focus of its own. After the success of the SMART Ranger Programme, the RIVER Ranger programme was created within the "Community Participation in River Management" project funded by DANIDA in 2005, with an aim to teach students about our water resources, and rivers and their ecosystems.

## Why?

Malaysia is located in the tropical region, where there is abundant rainfall - we receive about 2500 - 5000mm of rainfall annually. We have 189 river systems, consisting of 1800 rivers nationwide, which provide us 97% of our drinking water. Yet, we find ourselves facing water shortages, water supply disruptions and even water rationing during times of 'drought'. We actually receive more water in rainfall than is needed for our consumption purposes (as recommended by WHO), and the only reason why we face water shortages is the poor management of our precious water resources. Eleven percent of our river basins are severely polluted, and 39% are polluted, leaving only 50% of all rivers classified as 'clean'. The lack of education and awareness of the general public about our water resources, how they are being managed, and how they should be managed is a key factor that has led to the state of Malaysia's overall water quality. Another important factor is the lack of skill for genuinely interested people to take action in river management.

Therefore, it is hoped that the RIVER Ranger programme will give everyone a better understanding about the importance of our rivers and appreciate the value of them. Only then will our rivers be taken care of, and our source of water be safeguarded for the future generations to come.



# Objectives

- 1. To increase students' awareness and knowledge in managing resources
- 2. To provide living skills to students for use in local environmental management
- 3. To coach students on ways to evaluate and audit river basins
- 4. To develop a data base on local rivers by the schools
- 5. To motivate students to initiate water/river conservation projects in their school and community

# Approach

Global Environment Centre prides itself in being the first to introduce the concept of 'Civic Science' as a way to approach community participation in river management. It means giving the people the awareness, knowledge and, most importantly, skill to take action on environmental matters.



## The RIVER Ranger Programme

Establishing a RIVER Ranger Programme involves a 4-step process:

### Step 1: Selection Process

Each school will select 2-4 teachers and 20 students to participate in the programme. In a community or organisation this can involve parents/leaders and children.

### Step 2: Support Group

Once the core members have been decided, they must set up the RIVER Ranger club under their school Nature or Science Club. This group will then have to set up a small working committee. Support from the school management and PIBG is important to ensure that the programme gets full cooperation from everyone.

### Step 3: Training

The selected students and teachers will be trained by GEC or RIVER Ranger Teachers based on training modules prepared by GEC.

Upon completing the modules, they will be given a certificate of recognition and they will be fully certified RIVER Rangers. As RIVER Rangers, they are responsible for educating fellow students in their respective schools on water resource management, water conservation, sustainable water usage and wastewater management. At the same time, students will be able to monitor and help conserve their local rivers and its basin. They should also prepare a Local Action Plan for their next course of action.

### Step 4: Action

Their duties are to carry out river monitoring in their area and to undertake the following activities:

- Conduct river mapping activities to identify issues and problems in the local river basin.
- Develop a schedule for river observation and pollution and water quality monitoring.
  - The compiled data will be exhibited on their individual blogs and will be shared by all parties involved in observation activities (i.e. local and school communities)
  - They have to produce a summary report based on their observations and submit regular reports to their local politicians or relevant government agencies to initiate action against polluters
    Start water management projects/initiatives in school
- Water conservation, rainwater harvesting, water recycling GEC also encourages RIVER Rangers to be part of something BIG
- World Rivers Day and World Water Monitoring Day

# Brief outline of Module contents

The RIVER Ranger Programme covers 5 training modules, including a half-day hands-on practical field training at the nearest river.

### Module 1: River & River Basin - Water, Man & River

This module gives an introduction to what is a river and a river basin, and to rekindle the relationship between humans and rivers, which is water.

### Module 2: The Malaysian Scenario

This module gives an overview on the current status of rivers in Malaysia and Malaysia's water quality ranking at a global level. It also highlights the main sources of pollution here in Malaysia - industrial, agricultural and residential, and the effect and impact on humans especially on our drinking water and health. Finally, the pollution phenomenon: algae blooms and alien fish domination

### Module 3: Integrated River Basin Management

Teaches students about the Integrated River Basin Management Concept, which is how to look after rivers by considering the whole river basin rather than just the river. What is the proper way and integrated approach to managing our rivers? It needs the involvement of all parties: the government, private sector and public. How we can make a difference? The way forward is civic science - awareness, knowledge and skill for the general public, which will lead to action.

### Module 4: Field Training Information

This module gives important information on how to actually audit and monitor rivers in the field, and what equipment and safety procedures are needed. It also briefs students on the different parameters that need to be measured and what they represent in terms of water quality.

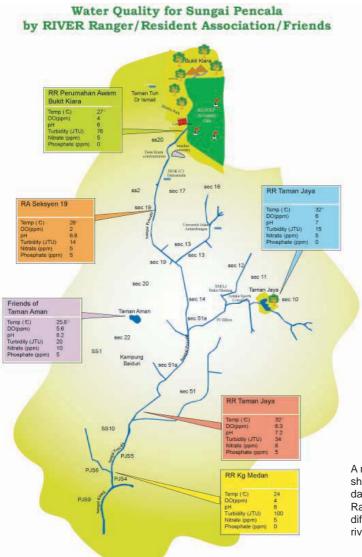
### Module 5: On-site Practical Field Training

Students will be taken to the river and carry out river mapping and river health check activities to assess the health of the river. This involves mapping out the area of the river basin and noting down all the different land uses and activities going on in the river basin. This will help to identify any sources of pollution. They are also asked to do a physical observation assessment of the river's environment. Following this, they are taught how to do chemical and biological monitoring to assess the quality of the water in the river by using simple tools and the animals actually living in the river. Biological monitoring is an important part of the assessment, as it shows people that there are actually living organisms inside the river that depend on the river for its survival - that the river is a living entity, and not merely a path for water to flow.



# The Sungai Pencala River Basin RIVER Rangers

Global Environment Centre managed to train various schools and communities in the Sungai Pencala River Basin area, and have created a network of RIVER Rangers in the basin. The outcome of this is a network of concerned people for the health of Sungai Pencala as well as a system for regular updates on its water quality. The river basin has 12 schools and communities along the 12km stretch of Sungai Pencala serving as RIVER Rangers, who are in charge of doing regular water quality checks of the river at different sites as well as reporting any illegal activities that they may see occurring. All RIVER Ranger groups send in water quality data to GEC regularly, which is updated by GEC for reference and used to monitor the state of Sungai Pencala.



A map of Sungai Pencala showing the water quality data collected by RIVER Ranger groups along different sections of the river.

# Protectors of our rivers

### Schools

Kedah: SMK Teloi Kanan, SMK Kuala Kertih, SMK Baling, SMK Parit Panjang, SMk Jerai, SMK Jeneri, SMK Agama Sik, SMK Chepir, SMK Khir Johari, SMK Merbok, Sekolah Model Khas Baling, SM Tanjung Puteri, SM Siong, SM Syed Abu Bakar, SM Sik, SM Gulau, SM Agama Baling, SM Kuala Ketil, SK Teloi Kanan, SK Teloi Timur, SK Tawar, SK Paya Besar, SK Teluk Teduri, SK Kuala Merah, SK Kuala Pegang, SK Baling, SK Khir Johari, SK Syed Jan Al Jefri, SK Paya Terendam, SK Kampong Dusun, SK Seri Ampang Muda, SJK (T) Ldg Sungai Puntar, SJK (T) Ldg Lubuk Segintah

Selangor: SMK (P) Sri Aman, SK Taman Sea, SK Sg. Way, SMK La Selle, SMK Sri Utama, SK Assunta, SMK Bukit Bintang, SMK Taman Medan, Alice Smith School, SJK (T) Vivakanandha

Cameron Highlands: SMK Sultan Ahmad Shah

Gua Musang: SMK Tengku IndraPutra 1 & 2, SMK Bandar Chiku, SMK Chiku 2, SMK Paloh, SMK Sg Asap, SMK Tengku Bendahara

### Communities

RA Seksyen 19, RR Kampung Medan, RR Taman Jaya, RR Perumahan Awam Bukit Kiara, Friends of Kelana Jaya Park, Friends of Taman Aman

## Eager groups

GEC is always more than happy to train anyone who would like to save our rivers! In 2005, some of our National Service Trainees got the chance to be trained as RIVER Rangers. We have also trained 2 batches of staff from Fuji Electric in Kulim, Kedah, where they are interested in monitoring the quality of the river behind their factory, which is receiving their waste water from their water treatment ponds.

We have also modified the curriculum to suit half-day river adventures where children can learn about the living things in our rivers and have a go at trying to catch some fishes and insects. This has been popular with some corporate companies and their CSR programmes, such as ExxonMobil and CIMB Group, where GEC has organized half-day events to entertain and educate their staff and children from orphanages about the environment and rivers.

## Website

RIVER Rangers have the opportunity to post their water quality data and other information about their river and river basin online on their own individual blogs made by GEC. This is an important tool to get people involved and is a way of providing the general public access to information about their own river, which is not easily found otherwise.

Schools get their own RIVER Ranger page which is linked to Global Environment Centre's RIVER Ranger website.



# Making headlines

In its short time, the RIVER Ranger Programme has managed to grab the media's attention where they have covered numerous practical training sessions that were carried out with schools and communities. It highlights the fact that the programme is seen as an important education tool for people to learn about river conservation.

responsibility - Dr.K. Kalithasan







The students conducting a river hydrology study at the

# **Teen Rangers get** their feet wet

### By K.W. MAK

TWENTY-segat students from SMK Teloi Kanan took part in a New Ranger programme organ-ized by Petaling Jaya-based RGO Global Environment Centre (GEC) in Kuala Ketil, Keda, recently. Throughout the three-day pro-gramme, implemented as an environ-mental education camp, the students bande Knowledge and learnt skills that helped to preserve and rehabili-tite rivers.

tate rivers, The River Ranger module covers basic understanding of rivers and its connection to our lives, problems and

issues in river basins, integrated river basin management as well as handson management.

The Rangers-in-training also got their feet wet during the river mapping, river health assessments, river hydrology and bio-monitoring

A variety of activities were includ-ed in the highly interactive camp to make the learning experience

make the tenning enjoyable. Among them were a cultural show with a river theme, a video show on rivers in Malayaia courtery of TrEES (an NGO based in Selangor), video clips from the Environment

Department, group presentations, and a quiz, At the end of the camp, which was

At the end of the camp, which was jointly organised with the Kedah Education Department and the Scouts Association of Malaysia, par-ticipants were awarded River Ranger certificates.

In his speech at the end of the programme. SMK Teloi Kanan principal Ramii Ahmad saki: "I would like to extend an invitation. to other schools to utilise the facilities at our school to run river-based activi-ties." ties

GEC programme officer Dr K. Kalithasan hoped that the students



A Ranger going through a sampling process for bio-monitoring.

would impart the knowledge they schoolmates," had acquired, to family and friends as Schools tha well

well. "River conservation is a collective responsibility and that is why we strongly emphasise the need for the River Rangers to share what they have learned with their fellow

Schools that would like to particischools that would the to partici-pate in the River Ranger Programme can write to GEC at Global Environment Centre, 2nd Floor, Wisma Hing, 78 Jalan SS2/72, 47300 Petaling Jaya, Selangor, or call 03-7957 2007.

# Children feel 'pulse' of river

### by Eugene Chan

CHILDREN around the Kampung Medan area were given an important lesson on how to monitor the level of pollu tion in the Sungal Pencala under a river preservation programme organised by the Global Enviromental Centre (GEC) and the Action To Mobilise All Humanity (Atmah) recently.

About 40 children aged seven to 15 years from around the area were given test kits to examine the water quality of the river

They began at Kampung Medan where the river is badly polluted and moved unstream towards Bukit Kiara where the river water was cleaner

The public should play an active role to help preserve the river around them.

By training the children that live around here, we hope they will know how they can take care of their river,"said Suzana Mohkeri, a GEC staff

Of the 40 children, 20 of them will be selected for training by GEC and MPPJ to become River Rangers to carry out river monitoring in the area where they live

The project known as "Community Participation in River Management" began in December 2002 in a collaboration between GEC and and Atmah

GEC which promotes environmental preservation has river conservation, forest conservation and education programmes

The programme is funded by the Danish International **Development Programme** (Danida)

Atmah is an organisation that helps the urban poor. Among its programmes are free tuition classes, human values appreciation programmes and environmental education with focus on the squatter settlements and low-income areas.

'The public should play an active role to help preserve rivers by

children to be river rangers

# 6 News





SATURDAY 22 October 2005

# Young water monitoring pioneers go into action



ining samples of mac a magnifying glass.

ng the young participants on the process of checking water quality

### By CHOW HOW BAN Photos by SAM THAM

Proton provin HAM PUPUS of SK Sevi Kelma, SK TDI and SK TDI 2 became the first local participants of the World Water Monitoring Day programme held a Lemaha Mazari brenzy ear size and a Lemaha Mazari brenzy ear size 2002, chorasabd of people from countries like Antralal, Belgnuts. Rizzl. Bulgnar, Camerono, Canada, Cech Bepahle, in various programmes organised by the World Water Monitoring Day body.

by the work of the body. body. The first programme in Malaysia was organised by the Malaysian Water Association and facilitated by the Global Environment Centre

The participants, mainly members of the GEC's Smart Ranger programme, from the three schools had the opportunity to check on the water quality of Sungai Pencala that flows through the park and identify macroinvertebrate life in the stream.

identify maranimeethinale life in the stream. Divided into five groups, the 52-children were taken to the lale and streams near the car guid and water inter area wires they collected carriy and guality. EfC senior parameethic stream of the stream biological life to rate the water quality.

biological life to rate the water quality. "After each group finished its job. all of them gathered and presented their findings. The secretariat from the Malaysian Water Association will upload the findings on www.windtwetermemtroniggu.org. "These schoolchildren will be the second second second second second second the second se

www.wanthawcternontinengdoy.org. These school-likers will be like the their water munitoring activities published online. The said. Association council member Dan Chang Heiga said latty out the participating countries carried out soci water mounting programmes will be a said to be a said of the proper in participation in this activity. This is a soft launch of our programme in Madyasia and we will hold another more sophisticated programme in Madyasia and the will be additioned to be a said the said to be a He said the most important message was to extract be badies about the importance of water bobies and network.

es and rivers. "I hope that by introducing schookchildren to such programmes, it will help prompt them to appreciate our water basin and rivers and protect them," he said.



Dr Kalithasan of GEC explains a point to the children during the special outing on how to test the level of pollution in a rivers

1 April 2006 Saturday

**SP23** 

STAR SPECIAL



9"Malaysia Plan

ent and rivers through the 'Love Our R School children are taught to protect the environ Campaign'

# Love our rivers

PUPILS of Sekolah Menengah Kebangsaan Teloi Kanan in Kuala Ketil, Kedah, are taught to love their rivers an awareness programme created by their school to leach them to preserve the environment

The school hopes through the programmes, the children, when they grew up, will be more committal in protecting their

surroundings. Teacher S.Kalaimani, the school's coordinator of River Care Education Centre and advisor of 'Love Our River Campaign', said the programme was introduced to the pupils by chance. "It started as a simple geography, science

and moral lesson but somehow the focus got shifted to rivers.

"We saw their interest in the environmental issue and decided to introduce the programme instead.

He said they are now proud to pioneer the

programme. "We made it compulsory for the pupils and

teachers to be involved in the programme. Among the activities held regularly at the river near their school were river monitoring and watch.

Kalaimani said they conduct water samplings and carried out checks on microorganism found in the river to understand its eco-system.

"As a result of this, the school had adopted Sugai Nyior as their part of the project." He said they received funding from Global Environment Centre (GEC) and Scout

Association of Malaysia for their activities, He said their activities at the river had also

created awareness among the residents and factories located there. The river is less pollution now compared

with a year ago," He said the success of the programme has

also created an interest among pupils and teachers from other schools in the district. "We are willing to share our knowledge to

preserve the environment. We are also willing to help others to set up their own centre to carry out the activities."

News M3

12 January 2006 Thursday

# A little bird raises hopes for dirty river

### STARBITES

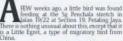
Rare find at Sg Penchala

What? Little Egrets

Where? Seen at Sg Penchala stretch near Section 19, Petaling Jaya

Why? Raises hopes that the river's condition has

By JAYAGANDI JAYARAJ Photo courtesy of GEC



Their numbers increased to 24 on Monday, and

Their numbers increased to 24 on Monday, and yesterday, a total of 30 births were found feeding at the quiet stretch of the river. The rare sighting is a positive sign – Sg Penchala's water quality may have improved. "This is the first time Little Egrets have been spotted at the stretch and it is rare for the birds to level as an other mixer," and Global Environment Centre (GEC) senior programme officer Dr K. Kalithasara



Some of the Little Egrets flying above the trees by the river

"It is a sign that life has been restored in the ince polluted Sg Penchala." He said Sg Penchala was a 1210m river with the

bulk of it at pollution class between 4 and 5. [Water quality level is categorised into five

classes. Class One water is safe to drink with treatment while Five means water that cannot be used at all).

> TURN TO PAGE 4

# City watch

### Sales course

UNIVERSITI Tunku Abdul Rahman (Utar) is organising a course "The Yin-Yang's Art of Selling: How to harness Soft and Hard Stells in Professional Selling" on Wednesday, from 8.45am to 5.15pm at its campus in Petaling 845am to 5,15pm at its camput in Pérlaing Jaya. The course provides participants with the sales technique process to develop rela-tionship dialogue skills that successful pro-fessional salespersons use. For details, cali 03– 7957 2818 / 016-223 3263 (Seven / Joleena / Yen Yen) or visit http://www.utar.edu. my/yingyang.htm

### nar for road users

Seminar for road users UNIVERSITY Malaya Medical Centre will organise a one-day seminar on "Protecting Read Users Effectively" on Statudaya d Dewan Sekapur Sireh, Trauma and Emergency Buiking, Lembah Panta, Parricipation is lim-ited to the first 100 only. There is no fee, For details, call 03-7950 2097 / 2348 (Sith Azura Molasmad / Neralika Ottman).

To achieve peace KAILASH Meditation Centre will conduct a day's course, entitled "The Good Heart" on Sunday at 3-2 Jalan Ara SD7/3B, Bandar Sri Damansara. The course is based on Buddhist meditations to develop a good heart that contributes to inner and outer peace. For details, call 03-6272 1098 / 012-215 8438 (Betty).

# 4 News

Certain insects that live in a lake are indications of water quality - Dr K. Kalithasan

TUESDAY 29 November 2005

# **Kits for residents** to monitor lake pollution

### By JAYAGANDI JAYARAJ

FVERAL residents associations Sand Rukun Tetangga sectors in Petaling Jaya have been roped in to help in monitoring water quality at lakes in Taman Aman, Section 19 and Bukit Kiara.

Test kits for the purpose were pre-sented to them on Saturday following a talk on river rehabilitation by Global Environment Centre (GCC) sensor pro-gramme officer Dr K. Kalithasan.

"The community should be involved in caring for water as whatever is done around a catchment area affects water quality," said Kalithasan during the talk at the Poh Toh Association. "Struams tisser surged under d

Streams, rivers, wetlands and espe cially lakes are important for growth

and reproduction, "Lakes help to protect water quality but if affected by irresponsible human action, it can damage the natural age-ing process that is based on increased growth and productivity, "So it is important to be able to tell if a lake is healthy or not. It is quite sim-

ple to estimate the overall condition of a lake," he added. There are three ways to check lake

condition - visual observation, chemi-cal and biological monitoring.

cal and biological monitoring. Visual observations give clues on the health of a lake. Clear water, smell and odour and presence of certain wildlife also indicate a good health.

However, chemical monitoring pro-vide the most accurate and reliable indications as it is used to analyse

M4 News

drinking water and determine sources of pollution and specific ollutants. Biological moni-

toring provides insights into the functional quality of the environment

quality because all organisms require specific conditions to live," said Kalithasan.

Kalithasan said lake water quality monitoring could be used to deter-mine the level by which it had been

the environment studied. It reveals important changes in the composition of biological com-munities caused by human activities "For instance, certain insects that live in a take are influences of water aually because all organisms registered solds and fecal col-form bacteria among others."

The test kits were presented to the residents respresentatives by Kampung Tunku assemblyman Datuk Dr Wong Sai Hou.

In his speech, Dr Wong said: "The

environment is ours to protect. Use environment is ours to protect use what we have learned today to protect our water sources and also bring your children and family for picnics at lake sides so they, too, will learn about nature and its importance."

The effort was part of 'One State One River' Sungai Pencala rehabilitation programme headed by GEC and Petaling Jaya Municipal Council (MIPJ), funded by Danida.

# METRO **Exposing young ones** to health of rivers

### STARBITES

Tuesday 21 March 2006

River 'patrol' Who? Children from the former squatter settlementss of Kampung Lindurigan and Kampung Medar What? Learn about river pollution How? GEC's River Rangers programme

By CHOW HOW BAN

A GROUP of 40 children, aged between 10 and 15, took a in Kampong Medan and its upstream section in Buckt Kara last Sunday, as part of their exposure to the problems in the rivers. The children had on March 14 attended a seminar on river pollu-

tion and the river ranger pro-gramme initiated by Global Environment Centre (GEC) at onment ra MPPL

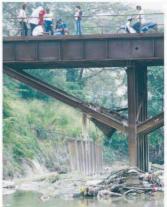
the participants, who were relocat-ed to low-cost flats from the former ed to low-cost liats from the former squatter settlements in Kampung Lindungan and Kampung Medan, saw for themselves the pollution in the area and put what they learned about chemical and biological mon-tivation to the set of the set of the set of the transfer of the set of itoring to use.

GEC senior programme officer Dr K. Kalithasan said the children got to

K. Kalitasan said the chikleng perto-see the difference in the conditions of Sungai Pencala in Kampung Mechan and Buist Kana. He said half of the group would be selected to form the River Rangers of Kampung Median, tasked to monitor the doverstream month-ly and report back to GEC. The tiver rangers group would be The tiver rangers group would be downtowam area while GEC has worked with mat appointed other residents and particle living around synapl Pencala as their river rangers Sungai Pencala as their river rangers tream and in the river's middle



an (in the middle) watches as partic its check out the findings of the water sample during the field trip.



The children get to see Sungai Pencala's condition up close during the

be posted on GEC's website so that river rangers would know more about what their other counterparts

about what there other counterparts were doing. The programme was organised by GEC in collaboration with Atmah (Action to Mobilise All Humanity) Project which brought together the participants who were mainly ben-eficianes of its programmes.

Atmah focuses on education and human values awareness and enrichment by providing free tuition classes for schoolchildren, It also holds programmes to help teens build character and team spir-tie besides running programmes under its Kdd' Club to help children learn about art, craft and social learn about art, craft and socia

Atmah focuses on education and



# The Pilot Project

A group of 20 students from SMK Teloi Kanan in Kedah became the first to be trained as RIVER Rangers in 2005. They were also the first to set up a 'Guru RIVER Ranger' group, which consists of trained RIVER Ranger teachers who are able to train other school groups who are interested in starting their own RIVER Ranger group. To date, they have helped to train over 30 schools in Kedah. A River Care Education Centre was also constructed, which is being used as a resource centre for information materials related to rivers and water management.



# river rangers in action!



# Annex

Materials from the RIVER Ranger Programme



For more information please contact:

Global Environment Centre 2nd Floor, Wisma Hing No. 78, Jln S52/72, 47300 Petaling Jaya Phone no. : 03-7957 2007 Fax no. : 03-7957 7003 E-mail : ::genet@genet.po.my

visit us at http://www.gecnet.info http://www.riverranger.net

# Every little bit counts ... Why be a Rive<u>r Ranger?</u>

a river management programme

Malaysia is a country rich with rivers. To date, there are 189 river systems with 1,800 rivers all over the country. And these rivers are the source of 97% of our drinking water. Unfortunately, we have not been taking care of our rivers and they have become polluted with solid waste and sewage being the main culprits. Without proper river management, sooner or later, our drinking source will become scarce and finally disappear.

Therefore, steps should be taken to prevent this from happening.



Global Environment Centre, a non-profit environmental NGO, has initiated a RIVER Ranger Programme under the SUART Ranger Programme which aims to create awareness and educate schools and students on river issues and the importance of managing our rivers. In return, it is hoped that students will get a better understanding of the river systems and care and appreciate the value of a river.

# how the river ranger programme works

20 teachers and students will be selected and trained by the officers of Global Environment Centre according to the Programme's module on how to be a RIVER Ranger. Using a training module, they will cover topics on river and river issues, river basin problems, integrated river basin management and "hands-on" training, in hands-on training, the students will be taken to the river and carry out water quality testing using physical, chemical and biological monitoring using tiving animals in the river.

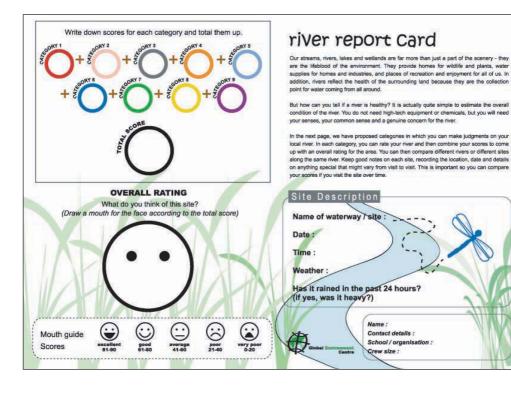
Upon completing the modules, they will be given a certificate of recognition and they will be a fully certified River Ranger to carry out river monitoring in their area.

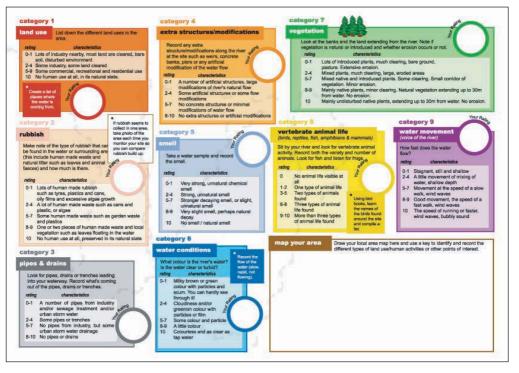
The RIVER Ranger Programme website has been created at www.riverranger.net which links to individual RIVER Ranger websites where these rangers can put up their findings on the web to be shared with other interested parties.

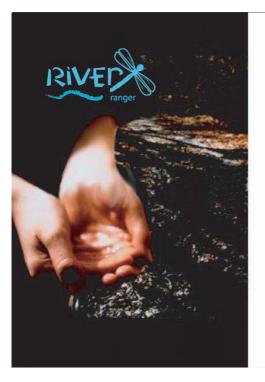


# join us! GEC

welcomes any interested schools, organisations or individuals who would like to start their own River Ranger Programme. We also encourage the public to also take up other environmentally friendly activities such as recycling, composting and green consumerism.







Sijil Keahlian

Dengan ini disahkan bahawa

dari

## SMK Taman Medan

### adalah ahli **RIVER RANGER** di bawah Program Pendidikan Alam Sekitar Global Environment Centre

June 2006



If you would like more information about the RIVER Ranger Programme, please contact us at:

2nd Floor, Wisma Hing, No. 78 Jalan SS2/72, 47300 Petaling Jaya, Selangor D.E. Malaysia.

Phone: +603 7957 2007 Fax: +603 7957 7003

Email: kalithasan@genet.po.my

# every river begins as a small trickle...



a clean, natural and living waterway. . .



# . .but in most urban areas they end up like this



# . .all thanks to human activities - US!

\* all photos here represent different sections of one single river - sungai pencala

# should we allow this to happen?

take part in our RIVER Ranger Programme today because WE CARE! for more information visit our river ranger website at

www.riverranger.net



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