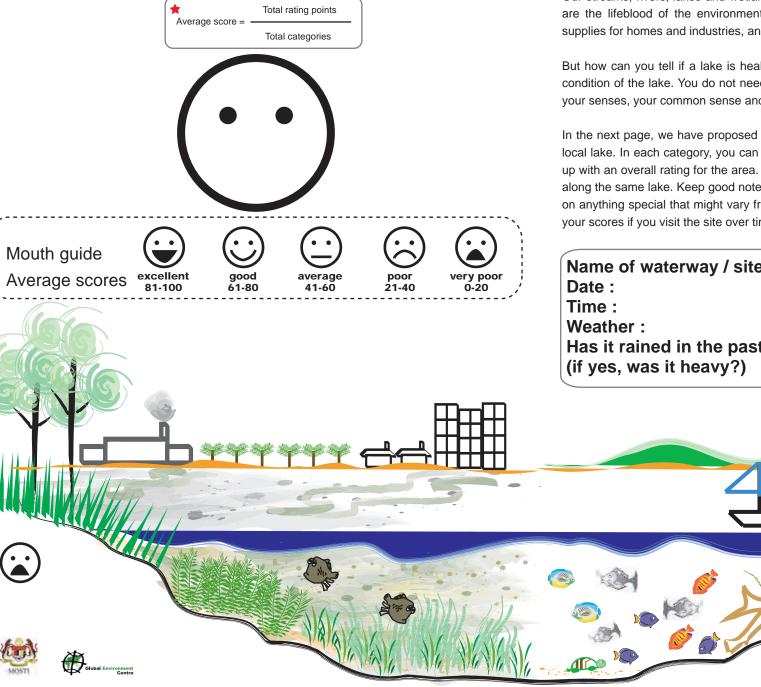
OVERALL RATING

What do you think of this site? (Draw a mouth for the face according to the average score)



lake report Card

Our streams, rivers, lakes and wetlands are far more than just a part of the scenery - they are the lifeblood of the environment. They provide homes for wildlife and plants, water supplies for homes and industries, and places of recreation and enjoyment for all of us.

But how can you tell if a lake is healthy? It is actually quite simple to estimate the overall condition of the lake. You do not need high-tech equipment or chemicals, but you will need your senses, your common sense and a genuine concern for the lake.

In the next page, we have proposed categories in which you can make judgments on your local lake. In each category, you can rate your lake and then combine your scores to come up with an overall rating for the area. You can then compare different lakes or different sites along the same lake. Keep good notes on each site, recording the location, date and details on anything special that might vary from visit to visit. This is important so you can compare your scores if you visit the site over time.

Name of waterway / site :	
Date :	
Time :	
Weather :	
Has it rained in the past 24 hours?	
(if yes, was it heavy?)	
4	

Name : Contact details : School / organisation : Crew size :

category 1

nublic

р	ercept		Is the lake water suitable for vactivities/aesthetic enjoyment	
	rating		characteristics	ating
	0-1	Imm	posible	2°
	2-4		minor aesthetic enjoyment, Second	
	5-9	Sligh	ntly impaired	

- Beautiful
- 10

category 2

rubbish

Make note of the type of rubbish that can monitor your site so be found in the water or surrounding area (this include human made waste and natural litter such as leaves and animal **Pating** faeces) and how much is there.

rating characteristics

- 0-1 Lots of human made rubbish such as tyres, plastics, cans and oilv films
- 2-4 A lot of human made waste such as cans and plastic, or algae
- Some human made waste such as garden waste 5-7 and plastics
- 8-9 One or two pieces of human made waste and local vegetation such as leaves floating in the water
- No human use at all, preserved in its natural state 10

category 3

inlet

Look for pipes, drains or trenches leading into your waterway. Record what's coming out of the pipes, drains or trenches.

characteristics ratina

- A number of pipes from industry 0-1 and/or sewage treatment and/or asting urban storm water
- Some pipes or trenches 2-4
- No pipes from industry, but some 5-7 urban storm water drainage
- 8-10 No pipes or drains

	С	atego	ry 4
able for water njoyment to lake users?	9	smell	ry 4
vment, 2			vater sample and he smell.
		rating	characteristics
		0-1	Very strong pungent, unnatural chemical smell
		2-4	Strong unnatural smell
		5-7	Slight unnatural smell
		8-9	Very slight smell, perhaps natural decay
		10	No smell/ natural smell
* · · · · · · · · · · · · · · · · · · ·			
If rubbish seems to collect in one area,	c	atego	ry 5

take photo of the

vou can compare

rubbish build up.

rour

area each time you

category 5 water conditions

What is the colour of the lake water? Is there any plant growing/ covering the water surface. If yes, please indicate % of plant covering the lake water surface.

2-ating

Q

characteristics

- 0-1 Severely high algae level or / with foam on the surface & water surface covered by plants(100%)
- 2-4 Noticeable green/vellow/brown (algae)colour & large patches of plants on water surface (75%)
- 5-9 Slightly clear with noticeable light green colour & small patches of plants on water surface (25%)
- Crystal clear water & no plant on 10 the water surface (0%)

category 6 vegetation

You Is there any vegetation along the shoreline/banks rating characteristics

- 0-1 no vegetation, bare ground, concrete
- 2-4 slightly vegetation
- 5-8 patches of vegetation
- 9-10 minimal disturbed vegetation mainly natural vegetation

category 7

vertebrate animal life (birds, reptiles, fish, amphibians & mammals)

Sit by the lake and look for vetebrate animal activity. Record both the variety and number of animals

rating characteristics

- 0 No animal life visible at all
- 1-2 One type of animal life
- 3-5 Two types of animals found
- Three types of animal 6-8 life found
- 9-10 More than three types of animal life found

category 8

Human Activity

Is there any human activities (construction, agricultural, ect.) contributing to the lake pollution.

rating characteristics

- 0-1 Very high human activities with major impact to the lake condition
- 2-4 High human activites but with Your Rat average impact to the lake condition
- 5-9 Low human activities with minor impact to the lake condition
- No human activities 10

category 9

Please note down the thickness of sediments:

22ting

Sedimentation

Is there any sediment that flows into the lake.If yes,take a long stick & measure & record the depth of water from the surface to the top of the sediment. Then push the stick into the sediment until it becomes hard to push.Measure & record the depth.The difference between the two reading is the thickness of sediments.

rating characteristics

- 0-1 Very thick sediments which creates mud along lake's shoreline
- Noticeable sediments with low 2-4 water clarity
- 5-9 Noticeable sediments but does not effect the water clarity
- 10 No sedimentation

category 10

invertebrate animal life (insects. crustaceans. ect.)

Sit by the lake and look for invetebrate anim activity. Then use a net to sample the

invetebrates.Observe & record both the variety and number of invertebrate.

characteristics rating

- 0 No invetebrate life visible at all 1-3
- Only 1 or 2 types of invetebrate life
- 4-6 3 to 6 types of
- invetebrates found 7-8 At least 7 types of animal
- life found 9-10
 - More than 10 types of invetebrates life found

Water Quality Using the water testing kit, write down the result of each test.

рн
DO ppm
Phosphorusppm
Nitrateppm
Temperature C
Turbidity JTU
E - Coli Yes / No
4

[Test Factor	Poor	Fair	Good	Excellent
- E	DO	<50%	51 - 70%	71 - 90%	91 - 110%
	pН	4, 5, 9, 10	6, 8		7
- [Temperature	>10 C	6 -10 °C	3-5 C	0-2 C
	Nitrate	20 - 40 ppm	5 ppm		
_ L	Phosphorus		4 ppm	2 ppm	1 ppm
	Turbidity	>100 JTU	40 - 100 JTU	>0 - 40 JTU	0 JTU
	E - Coli	– positive –		– nega tive –	

Chorophyll a *Lab analysis

rating