



# Comparison of water quality in the Sa Kaphang Surin Trang Thailand

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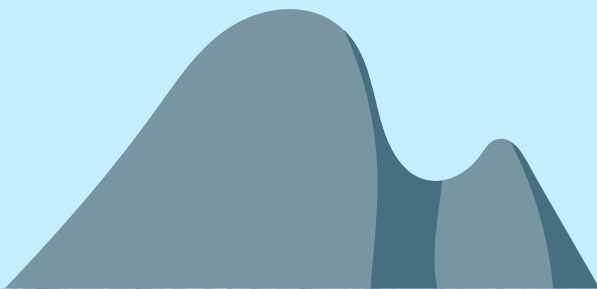
**Ms.Thamonwan Bunchuay**







# Introduction





# Research questions

Is there a difference in pH, Dissolved oxygen and temperature of water in Sa Kaphang Surin Area?



# Scientific Equipment



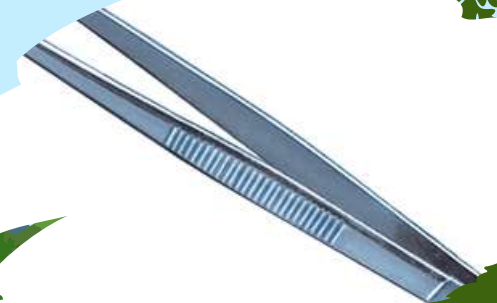
Reagent Bottle



Laboratory Bottle



Litmus Paper



Forcep Stainless



Watch Glass



Beaker



dissolved oxygen test  
: V-unique v-color

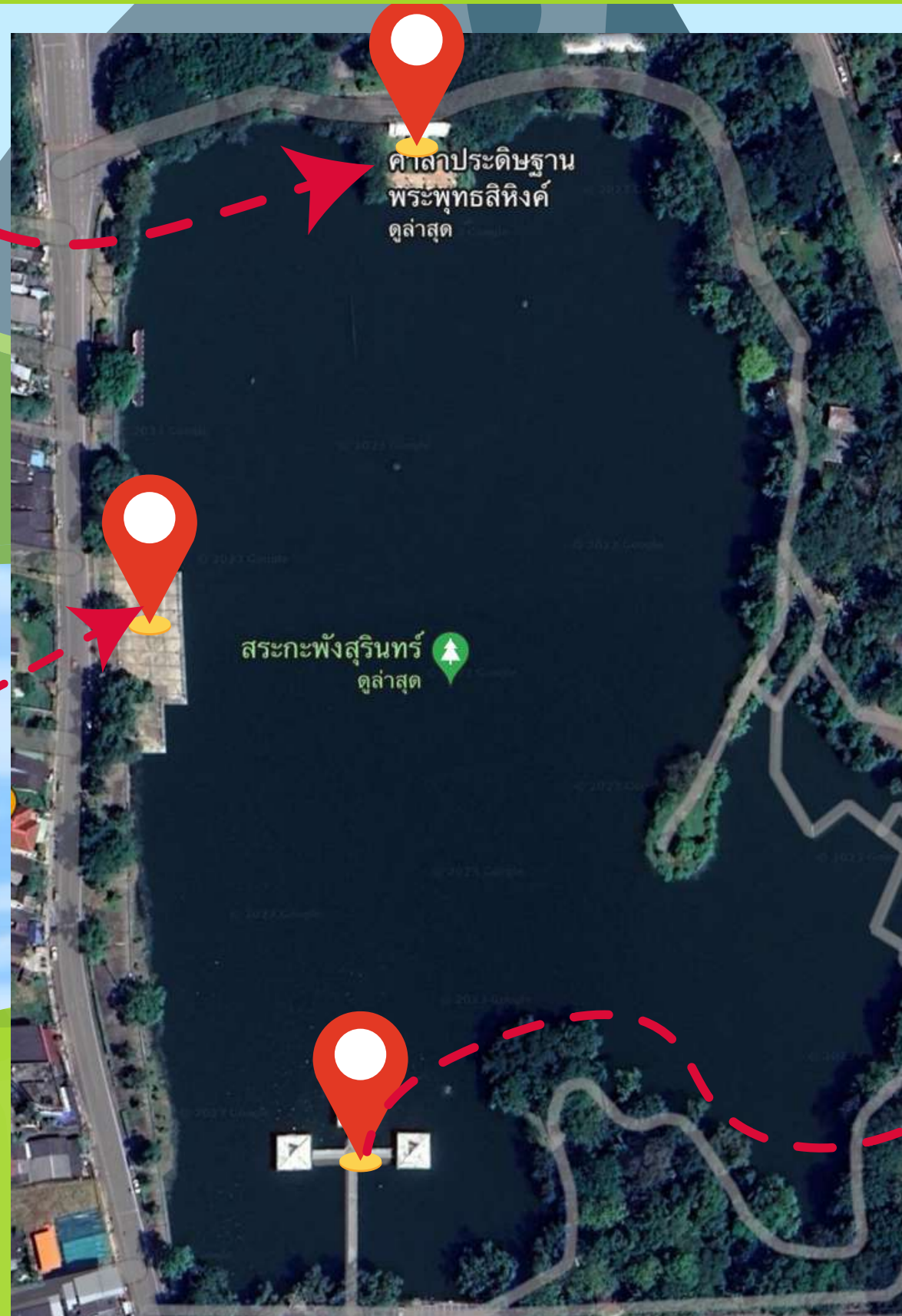
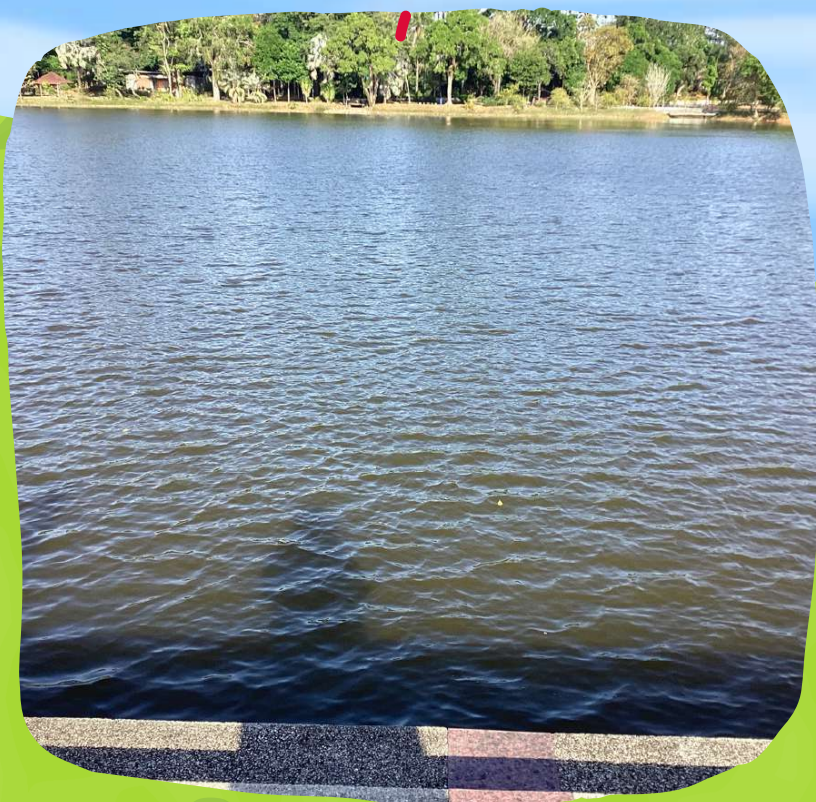


Thermometer



# The study area

Sa Kaphang Surin Area , Thap Thiang, Amphone Muang Trang Thailand



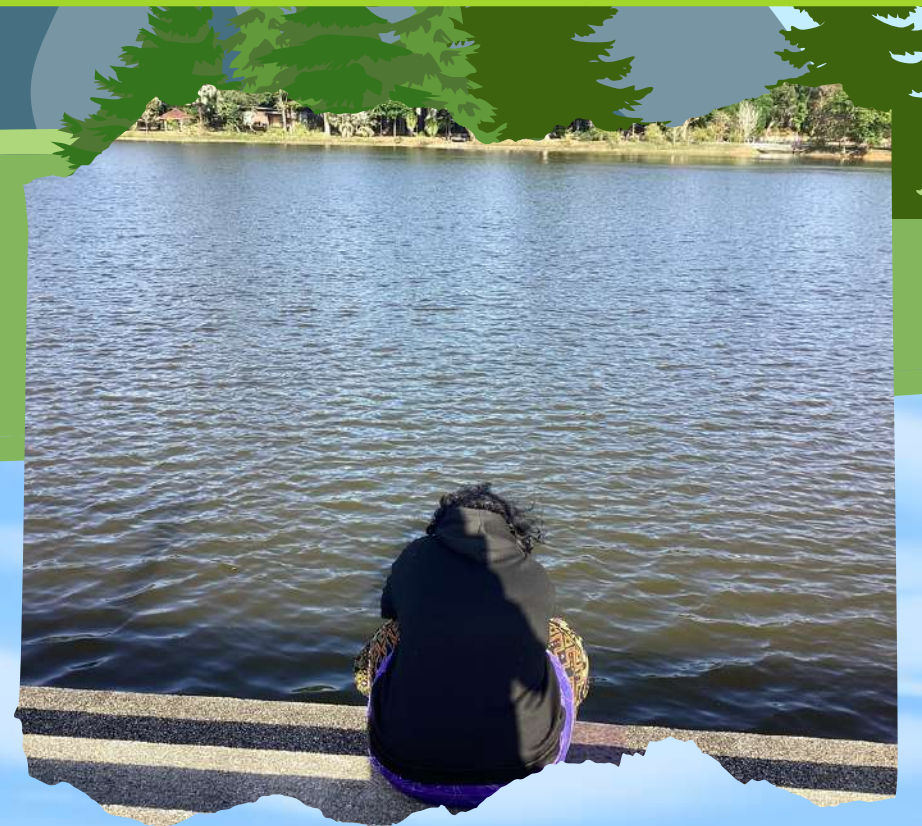


# Method of action

## 1.The study area



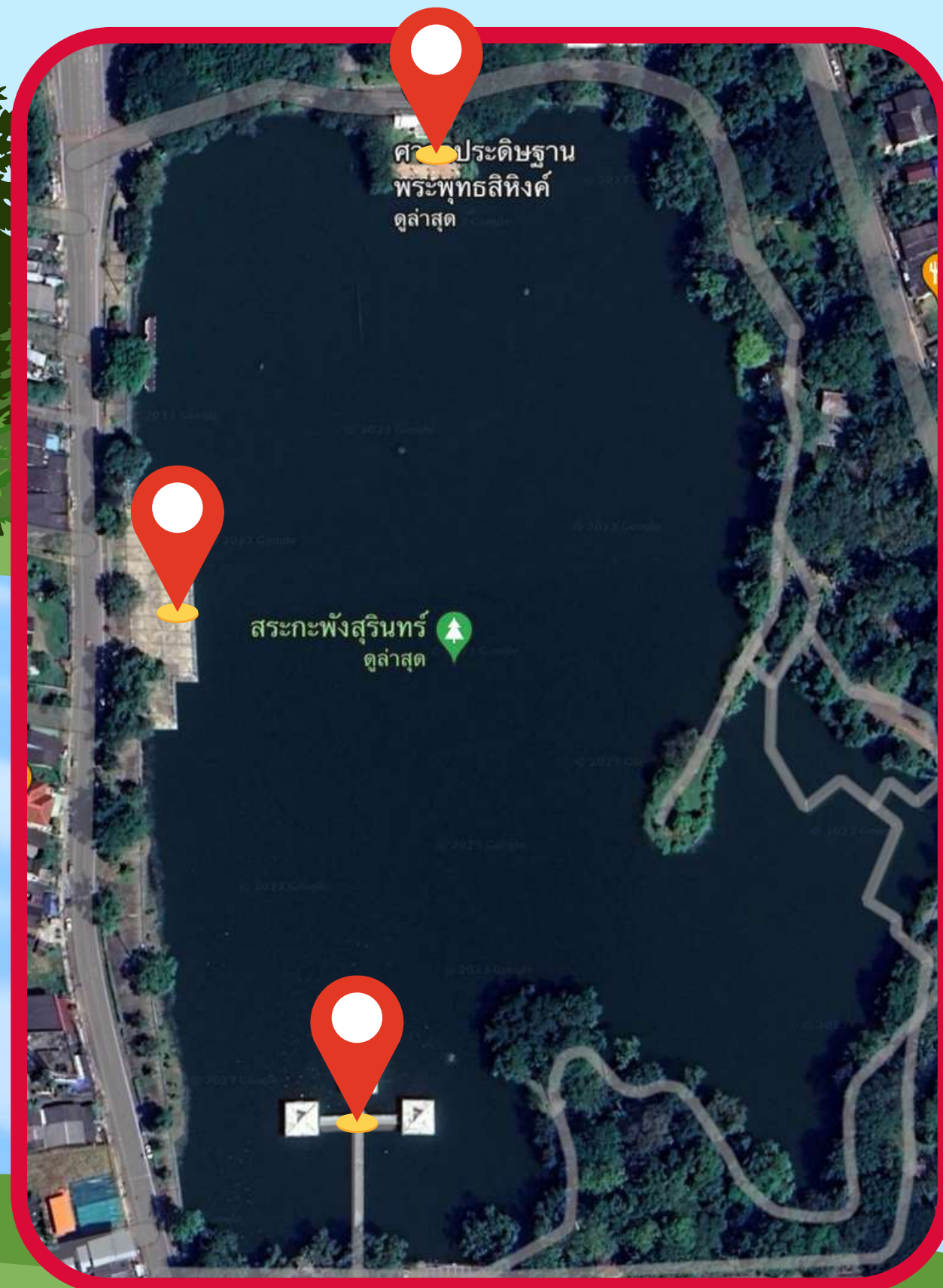
## 2.Water quality measurement



## 3.Water quality data collection







# 1.The study area

1. Determine water collection Site.Sa kapang surin pond area There are three area Sala enshrined, Phutthasihing , Aerobic area, Waterfront Pavilion

## 2. Water quality measurement

Water quality measurements were conducted according to the GLOBE methodology by studying water quality. temperature of water, The acid and base of the water, Dissolved oxygen

## 3. Water quality data collection

1. Determine water collection Site. There are three area Sala enshrined, Phutthasihing , Aerobic area, Waterfront Pavilion
2. draw water Location 1, Location 2 , Location 3 : 1 meter depth.
3. also measure the temperature Alcohol thermometer, depth of 10 centimeters, point 3 times, be averaged
4. The pH of the water was measured at all 3 points using litmus paper, measuring 3 times per point and then averaged.
5. Measure dissolved oxygen in water by using dissolved oxygen test kit, brand V-unique, model V-color. Standard quality water will have a DO value of about 5 - 8 mg/L. Wastewater will have a DO value of less than 3 mg/L. oxygen in water.



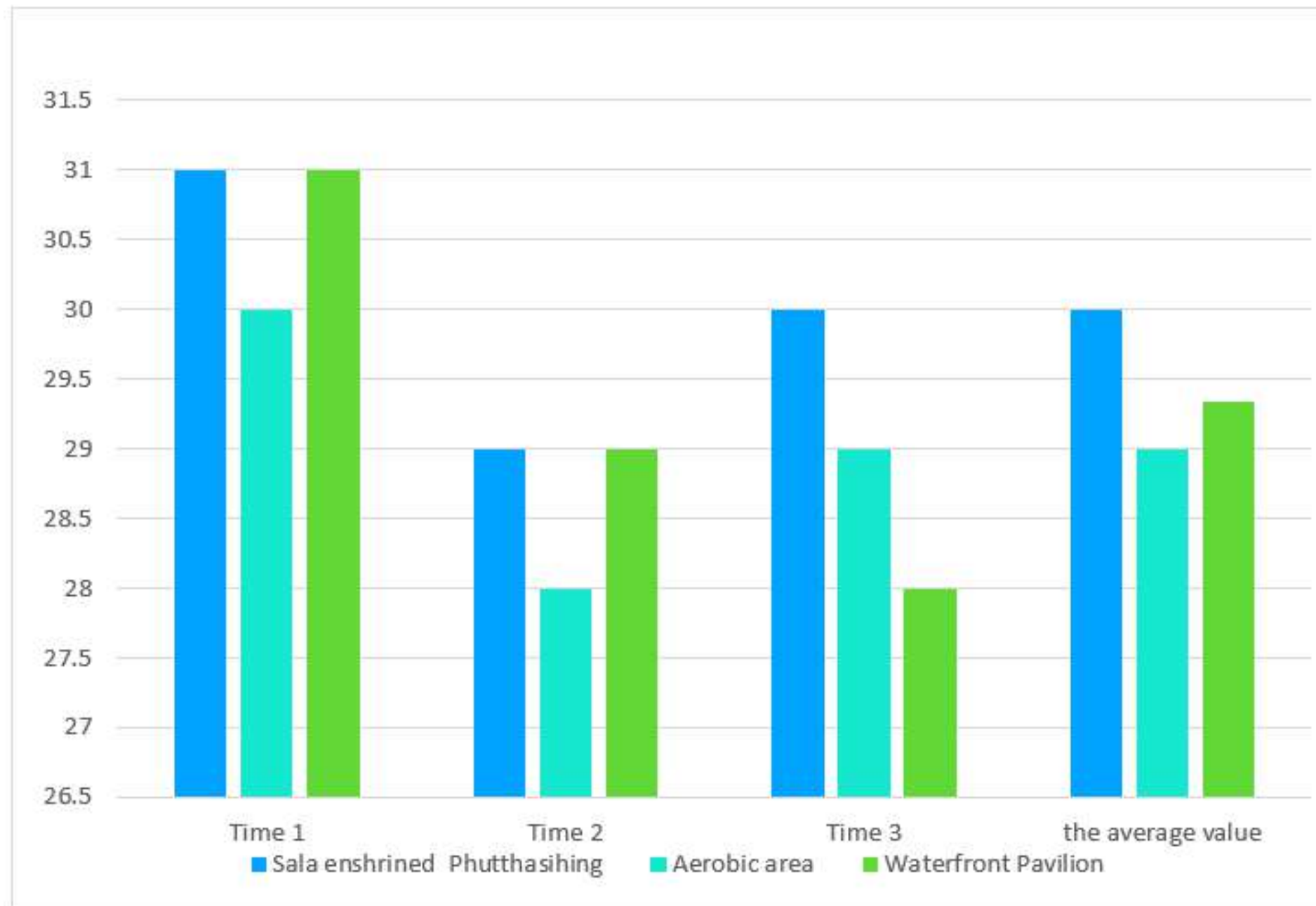
# Findings/ Results

The results of the experiment to study the water quality in Sa Kaphang Surin Area , Thap Thiang, Amphone Muang Trang. Such as  
1. studying temperature of water Sa Kaphang Surin Area, Trang  
**Table 1** shows temperature of water Sa Kaphang Surin Area, Trang

Place	Sala enshrined, Phutthasihing	Aerobic area	Waterfront Pavilion
Time 1	6	7	7
Time 2	6	7	7
Time 3	6	7	7
the average value	6	7	7



# Findings/ Results



From Table 1 showed that Sala enshrined, Phutthasihing It has an average temperature of 30 degrees. Aerobic area It has an average temperature of 29 degrees. Waterfront Pavilion It has an average temperature of 29.33 degrees.



# Findings/ Results

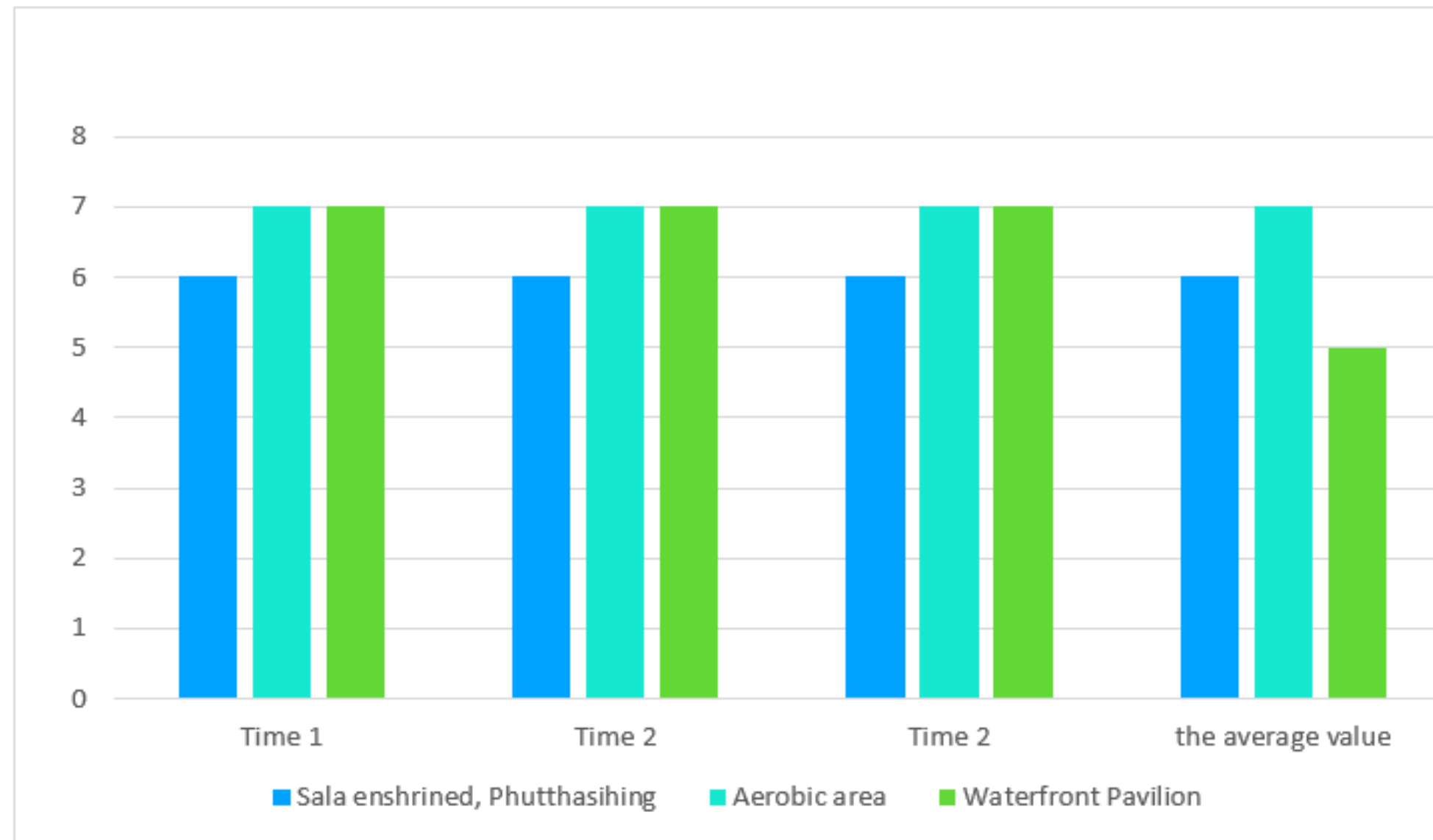
## 2. Studying PH test of water Sa Kaphang Surin Area, Trang

**Table 2** shows PH test of water Sa Kaphang Surin Area, Trang

Place	Sala enshrined, Phutthasihing	Aerobic area	Waterfront Pavilion
Time 1	31	30	31
Time 2	29	28	29
Time 3	30	29	28
the average value	30	29	29.33



# Findings/ Results



From Table 2 showed that Sala enshrined, Phutthasihing had an average pH of 6, an average pH of 7 on the bottom of Aerobic area, and an average pH of 7 in the Waterfront Pavilion area.



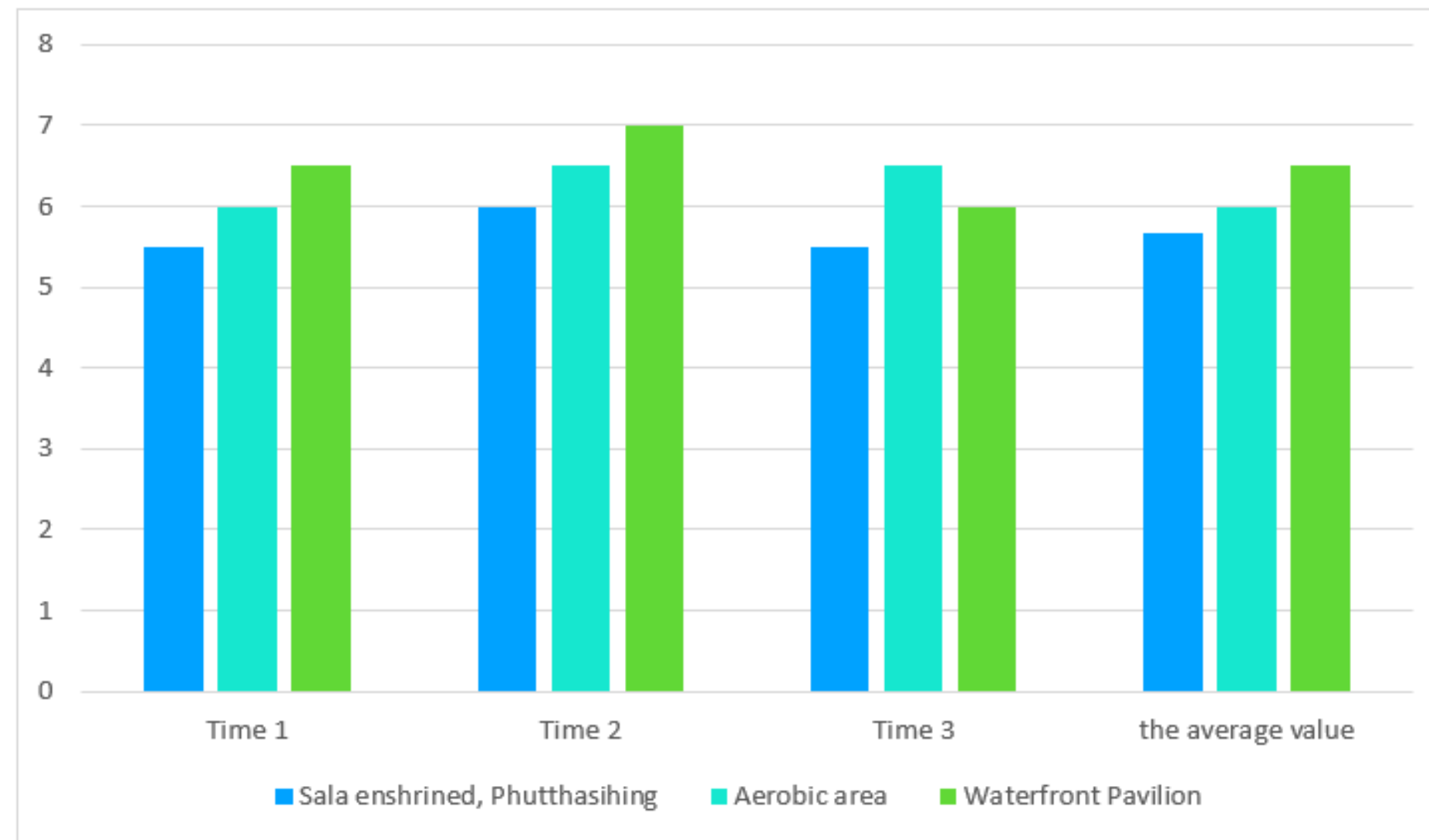
# Findings/ Results

3. Studying Dissolved oxygen Sa Kaphang Surin Area, Trang  
**Table 3** shows Dissolved oxygen Sa Kaphang Surin Area, Trang

Place	Sala enshrined, Phutthasihing	Aerobic area	Waterfront Pavilion
Time 1	5.5	6	6.5
Time 2	6	6.5	7
Time 3	5.5	5.5	6
the average value	5.66	6	6.5



# Findings/ Results



From Table 3 showed that The area where Sala enshrined, Phutthasihing The average oxygen value is 5.66 mg/L. There are very few fish that can survive. The shore on the bottom of Aerobic area. The average oxygen value is 6 mg/L. There are very few fish, able to survive Waterfront Pavilion area The average oxygen value is 6.5 mg/L L. Large fish can live small fish can't live



# Conclusion and Discussion

From the study, it was found that from the study it was found that the water quality, temperature, acidity-base, oxygen value of Sala enshrined, Phutthasihing were different in the water quality, temperature, acidity-base, oxygen value of the aerobic area. There are different quality of water, temperature, acidity - base, oxygen value of the Waterfront Pavilion area are different.



# Thank you

