

Certificate of Appreciation

This certificate is awarded to

**Karen Joy M. Amar, Marco G. Blasurca, Louella Mae M. Dalisay, Shiela Jane D. Familiara,
Jims-Braul Patrique S. Obrique, Arvilyn S. Rubion, and Engr. Reynaldo P. Ramos, Ph.D.**
Romblon State University - College of Engineering and Technology

for the time and expertise shared as
POSTER PRESENTER

of the study entitled
**ESTABLISHMENT OF AMBIENT WATER QUALITY BASELINE
DATA FOR BANGON RIVER, TABLAS ISLAND**

during the **Agency In-House Review**
of Romblon State University with the theme, "Towards a More Responsive
University: Seamless Research, Extension and Development Initiatives"
on September 15-16, 2016 at the Audio-Visual Room,
Romblon State University, Odiongan, Romblon.



ARTHUR R. YLAGAN, Ph.D.
VP for Research, Extension and Training



R.E.D. ALERT
RESEARCH ALERT EXTENSION ALERT DEVELOPMENTAL ALERT



ARNULFO F. DE LUNA, Ph.D.
University President



PROVINCE OF ROMBLON
ROMBLON STATE UNIVERSITY
Research, Extension & Training Office



Awards this

CERTIFICATE OF RECOGNITION

FIRST PLACE

POSTER PRESENTATION

KAREN JOY M. AMAR, MARCO B. BLASURA, LOUELLA MAE M. DALISAY,
SHIELA JANE D. FAMILARA, JIMS-BRAUL PATRIQUE S. OBRIQUE,
ARVILYN S. RUBION AND ENGR. REYNALDO RAMOS

poster entitled


"Profiling of Bangon River System in the Municipality of Odiongan"

during the

Annual Research Student Congress with the theme "R&D Towards Enhancing
Students' Creativity Responding to the Needs of the Province"

held on March 21-22, 2016 at Audio Visual Center,
Romblon State University, Odiongan, Romblon.

on the 22nd day of March in the year of our Lord Two Thousand and Sixteen
at the Audio Visual Center-Romblon State University, Odiongan, Romblon


R. R. YLAGAN, Ph.D.
Research, Extension and Training


ARNULFO F. DE LUNA, Ph.D.
University President



PROFILING OF BANGON RIVER SYSTEM IN THE MUNICIPALITY OF ODIONGAN

Ms. Karen Joy M. Amar, Mr. Marco G. Blaserna, Ms. Lohella Mae M. Dalisay, Ms. Shiela Jane D. Famban, Mr. Jims-Braul Patrique S. Obrique, Ms. Arvellyn S. Rubian, Engr. Reynaldo P. Ramon, PhD
 Randon State University - College of Engineering and Technology, Department of Civil Engineering
 Barangay Liwanag, Odiongan, Bantayan, Philippines

1 ABSTRACT

The objective of this study was to establish the water base line data for Bangon River in Odiongan, Bantayan by means of conducting field survey and collecting water samples for analysis from September 2015 until February 2016. Water samples were collected from the five (5) selected stations of the river. The collected samples were analyzed based on the parameters profiled.

2 OBJECTIVES

The main objective of this study is to establish water base line data for Bangon River System in Odiongan, Bantayan. As part of the study, the researchers also aims the following:

1. To assess and classify whether the current water quality conforms to the beneficial uses of the river.
2. To recommend strategies on how to protect and improve the water quality conditions of the river.

3 MATERIALS AND METHODS

Materials

- Data Recorder
- Plastic Bottle
- Map of Bangon River
- Measuring Tape
- Sample Bottle / Plastic Record Book
- Calculator
- Camera
- Stop Watch
- Standard Water Quality Monitoring = (S) Manual

Water Quality Parameters

- pH
- Total Calcium
- Phosphate
- Temperature
- Total Suspended Solids
- Nitrate
- BOD₅
- Total Chlorine
- Conductivity

Methods

Field Survey – The activities is conducted and the team went to the mouth of the river to take the (S) scale. The survey is started from the mouth to the headwater of the Bangon River that takes 2 hours. After the survey, from the headwater up to the mouth of the river the researchers measured the length, width, depth and water flow of the river. The field survey takes 4 days.

Water Sampling and the Sample Collection

The sampling procedures are as follows:

- 1.1. Walk into the water to the center of the river channel where the water is shallow and current has the greatest velocity. Place equipment and wait until the plume of sediment has been carried away or has settled.
- 1.2. Place the container of acid being filled with the river water, showing the used water stratification of the sampling location.
- 1.3. Lower the bottle vertically into the water flow down, hold it with one hand on neck about 1/2 depth at least 4 inches below the surface or halfway to the bottom of the stream. Do not touch the water part of the container. If the stream is very shallow, lower to a depth just above the stream bed but do not touch or disturb the stream bed with the container.
- 1.4. Slowly lift the container towards the flow. Fill it to about 4/5 full, though water should be left to allow for addition of preservation, if necessary, and allow for mixing the sample.
- 1.5. Cap or close the container and bring the sample to the working area.

4 RESULTS AND DISCUSSIONS



QUALITY MONITORING AND DATA OF BANGON RIVER

Station	1	2	3	4	5	Average	Standard Deviation
Temperature (°C)	25	28	26	27	26	26.4	1.5
pH	7.5	8.5	9.5	8.0	7.5	8.4	1.0
Total Calcium (mg/L)	2	8	4	3	3	4.0	3.2
Phosphate (mg/L)	0.2	0.8	0.4	0.2	0.2	0.36	0.3
Total Chlorine (mg/L)	0.2	0.2	0.2	0.2	0.2	0.2	0.0
BOD ₅ (mg/L)	1.5	1.5	1.5	1.5	1.5	1.5	0.0

5 FINDINGS

Out of nine (9) parameters considered in assessing the water quality of Bangon River, six (6) parameters falls in Classification of CLASS A.





REPUBLIC OF THE PHILIPPINES
PROVINCE OF ROMBLON
ROMBLON STATE UNIVERSITY
Research, Extension & Training Office



Awards this

CERTIFICATE OF RECOGNITION

FIRST PLACE

PAPER PRESENTATION
(Development Category)

PAUL JAYSENT F. FOS, MARK KAVEN D. GABOC,
ANN E. GREGORIO AND HERIS JAN F. TORIDA

paper entitled

"Development of Timber Truss Analysis Software"

during the

2nd Local Research Student Congress with the theme **"R&D Towards Enhancing Students' Creativity Responding to the Needs of the Province"**

held on March 21-22, 2016 at Audio Visual Center,
Romblon State University, Odiongan, Romblon.

Awarded this 22nd day of March in the year of our Lord Two Thousand and Sixteen
at the Audio Visual Center-Romblon State University, Odiongan, Romblon

ARTHUR R. YLAGAN, Ph.D.

VP for Research, Extension and Training

ARNULFO F. DE LUNA, Ph.D.

University President

