

	Environmental Management Bureau Regional Environmental Laboratory Region VIII Brgy. Baras, Palo, Leyte
	Certificate of Analysis

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-AMBIENT SECTION

Name/Source:	Binahaan and Bao rivers (Priority rivers)		
Address/Location:	Dagami, Pastrana, & Kananga Leyte		
Sampled by:	M. Sudaria		
Date Arrived:	Feb 9, 2022 @ 1:48 PM	Date Acknowledged:	Feb 9, 2022 @ 1:50 PM
Date Reported:	Feb 14, 2022 @ 5:01 PM		

Chain of custody no.	Lab sample no.	Time of Collection	Sample type	Sample Information
2022-034	2208-112	Feb 9, 2022 @ 8:15 AM	river water	water sample placed in 250-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 1"
	2208-113	Feb 9, 2022 @ 8:50 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 2"
	2208-114	Feb 9, 2022 @ 9:21 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 3"
	2208-115	Feb 9, 2022 @ 9:55 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 4"
	2208-116	Feb 9, 2022 @ 11:45 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Bao 1"
	2208-117	Feb 9, 2022 @ 11:00 AM	river water	water sample placed in 300-mL acid-washed glass 500-mL and 1000-mL PET bottle labeled "Bao 2"
	2208-118	Feb 9, 2022 @ 11:18 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Bao 3"

Environmental conditions during analysis:

Relative humidity: 74.9%

Temperature: 23.8°C

CHARACTERISTICS:

Parameters	Date Analyzed	Lab sample no.			
		112	113	114	115
BOD, mg/L	9-Feb-22	-	1.5	0.5	1.7
TSS, mg/L	10-Feb-22	75	33	35	13
True color, TCU	10-Feb-22	10	5	5	5
NO ₃ ⁻ as N, mg/L	10-Feb-22	ND	ND	0.13	0.22
PO ₄ ³⁻ as P, mg/L	10-Feb-22	0.000	0.000	0.000	0.000
Cl ⁻ , mg/L	10-Feb-22	8.38	2.14	8.61	7.30
		116	117	118	
BOD, mg/L	9-Feb-22	1.1	1.4	2	
TSS, mg/L	10-Feb-22	7	11	11	
True color, TCU	10-Feb-22	5	5	5	
NO ₃ ⁻ as N, mg/L	10-Feb-22	0.13	0.25	0.27	
PO ₄ ³⁻ as P, mg/L	10-Feb-22	0.000	0.000	0.000	
Cl ⁻ , mg/L	10-Feb-22	9.96	10.0	10.61	


Method used: BOD - 5-Day BOD Test
TSS - Gravimetric Method, dried @ 103-105 ° C
True color - Visual comparison method
Nitrate (NO₃⁻) and Chloride (Cl⁻) - Ion chromatography with Chemical Suppression of Eluent Conductivity
Phosphate (PO₄³⁻) Ascorbic acid method

Method detection limit (MDL):

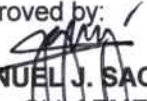
BOD 0.1 mg/L
TSS 2.3 mg/L
True color 5 TCU
NO₃⁻ as N, mg/L 0.0156 mg/L
Cl⁻, mg/L 0.089 mg/L

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, AHA, AWWA, WEF

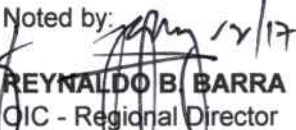
Remarks 1. This certificate of analysis is based on the sample as received by this office.
2. This certificate of analysis shall not be reproduced in full, without written approval from issuing laboratory.
3. ND : "not detected", < MDL

Analyzed by: 
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