




Republic of the Philippines  
Department of Environment and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**  
Region VIII  
Jones St, Brgy.02, Tacloban City  
Tel No. (053) 832-1088

March 21, 2022

**MICHAEL PAUL MUÑOZ**  
Manager  
LIDE Management Corporation  
LIDE, Isabel, Leyte

ENVIRONMENTAL MANAGEMENT BUREAU  
RELEASED BY:   
DATE: 3/23/2022  
TIME: 8:48am

Attention: **Arnold C. Nama**  
Pollution Control Officer  
LMC

**Dear Sir,**

This pertains to the water quality monitoring conducted on March 8, 2022 at Matlang and Dupong Bays, Isabel, Leyte. These waterbodies are monitored monthly/quarterly being the receiving body of waters of LIDE locators and as water quality management area. The activity was participated by the representatives from LGU Isabel and EMB-R8.

The water quality monitoring results showed exceedance on Phosphate at the station near Philphos Outfall at Matlang Bay (see attached Laboratory Analysis Report). The exceedance was determined based on the standards for Class SC waters as provided in the Water Quality Guidelines (DAO 2016-08).

In this regard, we are requiring you and the industry concerned to please submit within five (5) days from receipt hereof action plan indicating appropriate mitigating measures that will effectively avoid the reoccurrence of the exceedances. We shall continue to regularly conduct water quality monitoring on the aforesaid coastal areas with your participation and LGU Isabel.

Hoping for your immediate action on this matter.

Very truly yours,

  
**ENGR. REYNALDO B. BARRA**  
OIC, Regional Director

Cc: **PHILPHOS**  
LGU Isabel



Republic of the Philippines

Department of Environment and Natural Resources  
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Regional Office No. VIII

DENR 8 Compound, Brgy. 2, Jones Extension, Tacloban City



FOR : **ENGR. REYNALDO B. BARRA**  
OIC - Regional Director  
EMB R8, TACLOBAN CITY

SUBJECT : **TRAVEL REPORT**

FROM : **THE UNDERSIGNED**

Date : **March 21, 2022**

On March 8-10, 2022, the undersigned, Rosario S. Udtohan and Kenney D. Benaires with Travel Order No. EMBR8-2022-006964 and Travel Order No. EMBR8-2022-007016, respectively, conducted a monthly water quality monitoring of Matlang, Dupong, and Merida Waters of WQMA Isabel. Physical parameters like pH, temperature, and dissolved oxygen were measured on site at the established stations of these waterbodies. Water samples were collected for TSS, Color, Nitrates, Phosphates, Chlorides, BOD and Fecal Coliform analysis. Said samples were analyzed at the Regional EMB Laboratory. Below are the water quality results:

A. Water Quality Results (pH, Temp, DO, TSS, Fecal Coliform, Color, NO<sub>3</sub>, PO<sub>4</sub>, Cl-)

Station	Date/Time	pH	Temp (°C)	DO	TSS (mg/L)	Fecal Coliform (200MPN/100mL)	True Color (HU)	NO <sub>3</sub> (mg/L)	PO <sub>4</sub> (mg/L)	Cl- (mg/L)
1. Tabunok (Ilawod)	3/8/2022 10:01 AM	8.04	28.3	8.04	41	3,500	10	0.46	0	110.2
2. Dupong River (Sitio Taganas)	03/8/2022 10:17 AM	7.40	28.2	7.4	21	790	5	0.25	0	2.88
3. Matlang (Spillway)	03/8/2022 10:45 AM	8.80	27.4	5.7	7	920	5	0.08	0	5.8
4. Binabaye	03/8/2022; 8:55 AM	8.08	27.6	4.8	7	33	5	1.23	0	N/A
5. Marvel (Pasil)	03/8/2022; 10:07 AM	8.57	27.6	7.59	11	7.80	5	0.08	0	N/A
6. Sto Nino	03/8/2022; 12:01 PM	8.66	27.7	7.33	12	18.00	5	0.08	0	N/A
7. Brgy Libertad 1	03/8/2022; 10:32 AM	8.54	27.8	7.51	12	2.00	5	ND	0	N/A
8. Brgy Libertad 2	03/8/2022; 11:45 AM	7.93	28.6	8.46	2.5	20.00	5	ND	0.413	N/A
9. Brgy Libertad 3	03/8/2022; 11:30 AM	5.48	27.9	7.61	12	18.00	5	0.13	904.1	N/A
10. Mabil	03/8/2022; 11:20 AM	8.83	27.8	7.96	12	18	5	ND	0.099	N/A
11. Buenavista	03/8/2022; 10:49 AM	8.74	27.5	7.31	12	18.00	5	ND	0	N/A
<b>DENR Standard (Class SC &amp; C)</b>		<b>6.5-8.5</b>	<b>25-31</b>	<b>5</b>	<b>80</b>	<b>200</b>	<b>75</b>	<b>10</b>	<b>0.5</b>	<b>350</b>



B. Heavy Metals (As, Cr, Cu, Pb, Hg, Cd)

3RD QTR STATION	Date and Time	Arsenic RESULT	Chromium RESULT	Copper RESULT	Lead RESULT	Mercury RESULT	Cadmium RESULT
Benabaye	03/8/2022 10:07 AM	<0.13	0.005	<0.02	<0.026	<0.0004	<0.002
Marvel (Pasil)	03/8/2022 10:32 AM	<0.13	0.006	<0.02	<0.026	<0.0004	<0.002
Sto Nino	03/8/2022 10:49 AM	<0.13	0.005	0.02	<0.026	<0.0004	<0.002
Brgy Libertad 1	03/8/2022 11:20 AM	<0.13	0.003	<0.02	<0.026	<0.0004	<0.002
Brgy Libertad 2	03/8/2022 11:30 AM	<0.13	0.005	<0.02	<0.026	<0.0004	<0.002
Brgy Libertad 3	03/8/2022 11:45 AM	<0.13	0.003	<0.02	<0.026	<0.0004	0.002
Mabil	03/8/2022 12:01 PM	<0.13	0.0035	<0.02	<0.026	<0.0004	<0.002
Buenavista	03/8/2022 8:55 AM	<0.13	0.004	<0.02	<0.026	<0.0004	<0.002
<b>Std Max</b>		<b>0.02</b>	<b>0.005</b>	<b>0.02</b>	<b>0.05</b>	<b>0.002</b>	<b>0.005</b>

Remarks:

- Sampling activity was conducted simultaneously. Weather condition was sunny. Heavy rain was experienced a day before the sampling activity.
- Milky white appearance of surface waters near PHILPHOS Outfall was observed.
- Based on the new Administrative Order (AO) 2021-19 published on June 30, 2021, "the Updated Water Quality Guidelines and General Effluent Standards for selected parameters", the scope for copper was changed from Dissolved Copper to Total Copper. This Administrative Order partially amends the DENR AO No. 2016-08, which is a basic legislation on wastewater management. The main amendments include raising the standard values for six parameters namely, Copper, Boron, Fecal Coliform, Phosphorous, Sulfate and NH3-N particularly.
- Water quality monitoring results for both coastal and river waters are within the Water Quality Guidelines except for some stations that exceeded its concentration for pH, Fecal and Phosphates parameters

Prepared by:

ROSARIO S. UDTOHAN  
EMS II

KENNEY D. BENAIRE  
EMS I