



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Region VIII
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June 27, 2022

MEMORANDUM

ENVIRONMENTAL MANAGEMENT BUREAU
RELEASED BY:
DATE: 6/29/2022
TIME: 8:29am

FOR : **WILLIAM P. CUÑADO**
Director
Environmental Management Bureau
DENR Compound, Visayas Avenue
Diliman, Quezon City

Attention : Environmental Quality Division
Water Quality Management Section
Planning, Planning, and Program Development Division

FROM : The Regional Director
EMB Region VIII

SUBJECT : **Accomplishment Report for the Waterbodies Monitored for the 2nd Quarter CY 2022**

Please find the attached Accomplishment Report of the four (4) waterbodies monitored in Region VIII for the 2nd Quarter CY 2022 namely; Matlang Bay, Camotes Sea, Dupong Bay and Ormoc Bay.

All monitored parameters like pH, temperature (°C), total suspended solids (mg/L), Oil and grease (mg/L), dissolved oxygen (mg/L), and heavy metals (Cu, As, Cd, Hg, Pb, and Cr^{VI}) are within the standards set in the Water Quality Guidelines.

For his information.

REYNALDO B. BARRA, PME

2ND QUARTER COASTAL MONITORING OF DUPONG BAY, MATLANG BAY, CAMOTES SEA AND ORMOC BAY									
CY 2022									
Region	Waterbody	Parameter	Stn. No.	Stn. ID		Average	Min	Max	Criterion
Matlang & Dupong Bays & Camotes Sea, Isabel, Leyte Class SC (11 Stations)									
04/28/2022									
VIII	Dupon Bay	pH mg/L	1	10°54'35"N, 124°26'05"E/Kinatumyan	8.11	8.04	7.98	8.11	6.5-8.5
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	8.05				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	8.03				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	7.98				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	7.59				
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	8.07	7.82	6.75	8.07	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	7.99				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	6.75				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	8.06				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	8.02				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	8.01				
	Dupon Bay	Temp. °C	1	10°54'35"N, 124°26'05"E/Kinatumyan	30	29.95	29.7	31.1	25-31
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	29.7				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	29.7				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	30.4				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	31.1				
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	29.6	29.98	29.4	31.5	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	30.1				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	29.7				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	29.6				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	29.4				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	31.5				
	Dupon Bay	TSS mg/L	1	10°54'35"N, 124°26'05"E/Kinatumyan	<2.5	0.7	<2.5	2.8	
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<2.5				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	<2.5				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	2.8				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	8.2	8.2	8.2	8.2	

Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<2.5	8.55	<2.5	10	80
Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	7.1				
Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	10				
Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<2.5				
Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<2.5				
Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	<2.5				
Dupon Bay	Cu (mg/L)	1	10°54'35"N, 124°26'05"E/Kinatumyan	<0.02	<0.02	<0.02	<0.02	0.02
Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<0.02				
Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	<0.02				
Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	<0.02				
Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	<0.02	<0.02	<0.02	<0.02	
Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<0.02				
Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	<0.02				
Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	<0.02				
Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<0.02				
Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<0.02				
Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	<0.02				
Dupon Bay	As (mg/L)	1	10°54'35"N, 124°26'05"E/Kinatumyan	<0.013	<0.013	<0.013	<0.013	0.02
Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<0.013				
Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	<0.013				
Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	<0.013				
Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	<0.013	<0.013	<0.013	<0.013	
Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<0.013				
Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	<0.013				
Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	<0.013				
Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<0.013				
Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<0.013				
Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	<0.013				
Dupon Bay		1	10°54'35"N, 124°26'05"E/Kinatumyan	<0.002	<0.002	<0.002	<0.002	
Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<0.002				
Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	<0.002				
Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	<0.002				

	Camotes Sea	Cadmium (mg/L)	5	10°53'11"N, 124°26'04"E/Libertad	0.002	<0.002	<0.002	<0.002	0.005
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<0.002	<0.002	<0.002	<0.002	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	<0.002				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	0.007				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<0.002				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<0.002				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	<0.002				
	Dupon Bay	Hg (mg/L)	1	10°54'35"N, 124°26'05"E/Kinatumyan	<0.0004	<0.0004	<0.0004	<0.0004	0.002
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<0.0004				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	<0.0004				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	<0.0004				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	<0.0004				
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<0.0004	<0.0004	<0.0004	<0.0004	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	<0.0004				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	<0.0004				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<0.0004				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<0.0004				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	<0.0004				
	Dupon Bay	Pb (mg/L)	1	10°54'35"N, 124°26'05"E/Kinatumyan	<0.026	0.0335	<0.026	0.037	0.05
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	<0.026				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	0.037				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	0.030				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	<0.026				
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	<0.026	0.0437	<0.026	0.061	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	0.061				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	<0.026				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	<0.026				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	0.026				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	0.044				
	Dupon Bay		1	10°54'35"N, 124°26'05"E/Kinatumyan	0.001	0.002	0.001	0.004	
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	0.004				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	0.003				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	0.001				

	Camotes Sea	Cr ⁺⁶ (mg/L)	5	10°53'11"N, 124°26'04"E/Libertad	0.006	0.006	0.006	0.006	0.05
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	0.001	0.0032	<0.001	0.006	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	0.006				
	Matlang Bay		8	10°53'42"N, 124°26'58"E/Sitio Pingag	0.003				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	0.004				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	<0.001				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	0.002				
	Dupon Bay	Oil & Grease (mg/L)	1	10°54'35"N, 124°26'05"E/Kinatunmyan	-	1.4	1.4	1.4	3
	Dupon Bay		2	10°54'56"N, 124°24'0"E/Sacay Point	-				
	Dupon Bay		3	10°54'50"N, 124°23'5"E/Buenavista	-				
	Dupon Bay		4	10°53'34.4"N, 124°25'43.7"E/Libertad	1.4				
	Camotes Sea		5	10°53'11"N, 124°26'04"E/Libertad	<1.0				
	Matlang Bay		6	10°53'13.7"N, 124°26'30.1"E/Libertad	1.5	1.5	1.5	1.5	
	Matlang Bay		7	10°53'18"N, 124°26'46"E,Brgy. Libertad	-				
	Matlang Bay		8	-	-				
	Matlang Bay		9	10°53'08"N, 124°26'27"E/Matlang	-				
	Matlang Bay		10	10°52'55"N, 124°27'52"E/Brgy. Bilwang	-				
	Matlang Bay		11	10°52'13"N, 124°28'13"E/Tolingon	-				
Region		Parameter	Stn. No.	Stn. ID		Average	Min	Max	Criterion
Ormoc Bay, Ormoc City (Class SC) (5 Stations)									
05/02/2022									
VIII	Ormoc Bay	DO, mg/L	1	Fronting Crushing Plant	6.2	6.00	5.8	6.2	5 mg/L (minimum)
			2	Left of LAC Outfall	6.1				
			3	Fronting LAC Outfall	6				
			4	Right of LAC Outfall	5.9				
			5	Fronting OSCO Canal	5.8				
	Ormoc Bay	TSS mg/L	1	Fronting Crushing Plant	64	45.2	21	64	80
			2	Left of LAC Outfall	63				
			3	Fronting LAC Outfall	41				
			4	Right of LAC Outfall	37				
			5	Fronting OSCO Canal	21				
	Ormoc Bay	pH	1	Fronting Crushing Plant	8.18	8.216	8.18	8.27	6.5-8.5
			2	Left of LAC Outfall	8.21				
			3	Fronting LAC Outfall	8.21				
			4	Right of LAC Outfall	8.27				

			5	Fronting OSCO Canal	8.21				
			1	Fronting Crushing Plant	27.2				
			2	Left of LAC Outfall	27.2				
	Ormoc Bay	Temp. °C	3	Fronting LAC Outfall	27.1	27.16	27.1	27.2	25-31
			4	Right of LAC Outfall	27.2				
			5	Fronting OSCO Canal	27.1				
			1	Fronting Crushing Plant	5				
			2	Left of LAC Outfall	5				
	Ormoc Bay	Color (TCU)	3	Fronting LAC Outfall	5	5	5	5	10
			4	Right of LAC Outfall	5				
			5	Fronting OSCO Canal	5				
			1	Fronting Crushing Plant	3.55				
			2	Left of LAC Outfall	ND				
	Ormoc Bay	Nitrates (mg/L)	3	Fronting LAC Outfall	8.57	6.13	ND	8.57	10
			4	Right of LAC Outfall	8.46				
			5	Fronting OSCO Canal	3.94				
			1	Fronting Crushing Plant	0.016				
			2	Left of LAC Outfall	0.031				
	Ormoc Bay	Phosphates (mg/L)	3	Fronting LAC Outfall	0.014	0.0226	0.016	0.031	0.05
			4	Right of LAC Outfall	0.03				
			5	Fronting OSCO Canal	0.022				

Note: 1. All results for this quarter are all within the Water Quality Guidelines for Class SC Waters of DAO 2016-08

2 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

Prepared by:

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EMS II

Reviewed by:

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OIC- Chief, Ambient Monitoring Section

Approved by:

MANUEL J. SACEDA

OIC-Chief, Environmental Monitoring & Enforcement Division

Noted by:

ENGR. REYNALDO B. BARRA, PME

OIC, Regional Director