Republic of the Philippines

Department of Environment and Natural Resources

Visayas Avenue, Diliman, Quezon City

Website: http://www.denr.gov.ph / E-mail: web@denr.gov.ph

MEMORANDUM

FOR

The Directors,

Biodiversity Management Bureau

Ecosystems Research and Development Bureau

Forest Management Bureau Land Management Bureau Mines and Geosciences Bureau

FROM

The OIC-Director,

Policy and Planning Service

SUBJECT

DRAFT DENR ADMINISTRATIVE ORDERS RE: "DESIGNATION OF THE BOLO RIVER SYSTEM WATER QUALITY MANAGEMENT AREA AND CREATION OF ITS GOVERNING BOARD" AND "DESIGNATION OF PANGLAO ISLAND COASTAL WATERS AS A WATER QUALITY MANAGEMENT—AREA AND CREATION OF ITS

GOVERNING BOARD"

DATE

10 MAR 2021

BACKGROUND

- 1. Pursuant to Section 5 of Republic Act (RA) No. 9275 or the Clean Water Act of 2004, the Department, may declare certain areas as Water Quality Management Areas (WQMAs) to ensure effective implementation of RA 9275.
- 2. Panglao Island in the Province of Bohol is a popular tourist destination. Tourist arrivals have been increasing yearly and as of 2019, there were 1.58 Million tourists who visited Bohol. Due to this, there was an increased generation of both solid waste and sewage. However, the island's only sewage treatment plant (STP) cannot cope with the waste generated. There is also no existing Sanitary Landfill on the island and the open dumpsite was also closed. While the water quality of Panglao Island remains within established parameters, some water quality monitoring stations are starting to show exceedances, especially for fecal coliform located in Alona Beach.
- 3. The proposed WQMA will cover a total of 18,174.29 hectares (ha), which includes Tagbilaran City, and the municipalities of Dauis and Panglao.

- 4. The Bolo River System in the Province of Ilocos Norte is one of the remaining pristine river systems in the North. It is classified as Class A upstream and Class D downstream.
- 5. In order to sustain its pristine quality, the EMB has proposed the establishment of the Bolo River System WQMA, which will cover a total of 18,263 ha. in the municipalities of Adams, Bangui, Dumalneg, and Pagudpud.
- 6. The draft DAOs provide for the establishment of WQMAs for Panglao Island and Bolo River and creates their respective Governing Boards composed of relevant agencies as well as other stakeholders. It indicates the functions of the Governing Board and creates the Multi-Sectoral Group for water quality monitoring and surveillance work. It also creates the Technical Working Group and designates the Technical Secretariat.
- 7. The two draft policies have undergone review by the Policy Technical Working Group (PTWG) during its meeting on 04 March 2021 and the inputs suggested by the PTWG have already been incorporated in this version of the DAOs.

ACTION REQUESTED

The issuance of the two DAOs is necessary to establish coordination mechanisms to maintain or improve the water quality of Panglao Island in Bohol and Bolo River in Ilocos Norte.

In view of the foregoing, may we request for your concurrence or further comments/inputs on the draft DAO, on or before 19 March 2021. Otherwise, your lack of feedback or written concurrence shall be considered as your no objection to the proposed policy.

For your consideration and approval.

MELINDA C. CAPISTRANO



Republic of the Philippines

Department of Environment and Natural Resources

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DENR A	Admini	strative	Order
No. 202	1 -		

SUBJECT: DESIGNATION OF THE BOLO RIVER SYSTEM WATER

QUALITY MANAGEMENT AREA AND CREATION OF ITS

GOVERNING BOARD

Pursuant to Section 5 of R.A. 9275 otherwise known as the "Philippine Clean Water Act of 2004", DENR Administrative Order (DAO) No. 2005-10 or the "Implementing Rules and Regulations of RA 9275", and DENR Memorandum Circular 2009-15 or "Procedural Manual for the Designation of Water Quality Management Areas", and considering its critical importance to the municipalities of Adams, Bangui, Dumalneg, and Pagudpud in the Province of Ilocos Norte, the Bolo River System is hereby designated as a Water Quality Management Area (WQMA).

Section 1. Policy and Objectives. It is the policy of the State to pursue economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine water. Pursuant to this policy statement, this Order aims at protecting and improving the water quality of the Bolo River for present and future generations consistent with the following objectives:

- a) To manage sustainably the Bolo River through stakeholders' engagement to protect its other water sources (i.e. surface waters like springs, lakes and aquifers) and improve its water quality that is necessary for long-term support to agriculture, industries, fisheries and households that are all dependent on the river.
- b) To formulate and implement a WQMA program which recognizes that water quality management issues are inherently related and cannot be detached from concerns on water resources, ecological protection, water supply, public health and quality of life;
- c) To empower the four Local Government Units (LGUs) of Adams, Bangui, Dumalneg, and Pagudpud and the barangays within the Bolo River watershed in the sustainable management of the river;
- d) To encourage, support and mobilize civil society and other sectors, including the academe and businesses to undertake environment-related activities in addressing pertinent environmental issues and problems within the Bolo River WQMA; and
- e) To support the current environmental protection initiatives, programs and efforts of four LGUs (Adams, Bangui, Dumalneg, and Pagudpud) and other civil society organizations in Ilocos Norte to address the impacts of climate change.

Section 2. Scope and Coverage. The WQMA has a total area of 18,263 hectares and covers the Bolo River System and its tributaries including the land within the hydrologic unit bounded by the following geographic coordinates which are consistent with the map in Annex A:

Boundary Control Point	Barangay	Municipality	Latitude	Longitude
1	Brgy. Ligaya	Pagudpud	18°33'5.84"N	120°46'38.85"E
$\frac{1}{2}$	Brgy. Ligaya	Pagudpud	18°32'54.37"N	120°46'59.94"E
$\frac{2}{3}$	Brgy. Tarrag	Pagudpud	18°32'37.18"N	120°47'25.46"E
4	Brgy. Tarrag	Pagudpud	18°32'8.94"N	120°47'45.89"E
5	Brgy. Tarrag	Pagudpud	18°32'39.79"N	120°48'17.10"E
6	Brgy. Dampig	Pagudpud	18°32'39.99"N	120°48'34.59"E
7	Brgy. Dampig	Pagudpud	18°32'45.33"N	120°48'55.90"E
8	Brgy. Aggasi	Pagudpud	18°32'59.95"N	120°49'17.09"E
9	Brgy. Aggasi	Pagudpud	18°32'56.33"N	120°49'45.07"E
10	Brgy. Saguigui	Pagudpud	18°33'18.05"N	120°50'20.51"E
11	Brgy. Dampig	Pagudpud	18°33'19.48"N	120°50'43.81"E
12	Brgy. Dampig	Pagudpud	18°32'43.48"N	120°51'16.82"E
	Brgy. Balaoi	Pagudpud	18°33'33.84"N	120°52'26.04"E
13	Brgy. Pancian	Pagudpud	18°33'4.44"N	120°52'48.75"E
14	Brgy. Pancian	Pagudpud	18°33'1.34"N	120°53'21.83"E
15		Pagudpud	18°32'22.54"N	120°53'12.59"E
16	Brgy, Pancian	Pagudpud	18°31'31.73"N	120°53'17.59"E
17	Brgy. Pancian	Pagudpud	18°31'9.50"N	120°53'18.35"E
18	Brgy. Pancian	Pagudpud	18°31'10.23"N	120°54'3.03"E
19	Brgy. Pancian	Pagudpud	18°31'2.11"N	120°54'23.53"E
20	Brgy. Pancian	Pagudpud	18°31'7.21"N	120°54'44.36"E
21	Brgy. Pancian	Pagudpud	18°31'2.51"N	120°54'59.96"E
22	Brgy. Pancian		18°30'36.21"N	120°55'10.48"E
23	Brgy. Poblacion	Adams	18°30'5.78"N	120°55'24.21"E
24	Brgy. Poblacion	Adams	18°29'56.07"N	120°55'47.40"E
25	Brgy. Poblacion	Adams	18°30'13.01"N	120°56'13.70"E
26	Brgy. Poblacion	Adams	18°30'17.10"N	120°56'46.32"E
27	Brgy. Poblacion	Adams	18°30'32.77"N	120°57'10.42"E
28	Brgy. Poblacion	Adams	18°30'30.36"N	120°57'44.27"E
29	Brgy. Poblacion	Adams	18°30'12.16"N	120°57'43.76"E
30	Brgy. Poblacion	Adams	18°30'12.10 N	120°57'33.19"E
31	Brgy. Poblacion	Adams	18°29'35.90"N	120°57'6.42"E
32	Brgy. Poblacion	Adams	18°29'21.19"N	120°56'56.39"E
33	Brgy. Poblacion	Adams		120°56'55.42"E
34	Brgy. Poblacion	Adams	18°28'50.48"N	120°56'54.72"E
35	Brgy. Poblacion	Adams	18°28'37.73"N	120°56'29.40"E
36	Brgy. Poblacion	Adams	18°28'28.47"N	120°56'42.89"E
37	Brgy. Poblacion	Adams	18°28'6.72"N	120°57'8.42"E
38	Brgy. Poblacion	Adams	18°27'48.87"N	120°57'31.10"E
39	Brgy. Poblacion	Adams	18°27'30.34"N	120°57'31.10 E 120°57'33.63"E
40	Brgy. Poblacion	Adams	18°27'0.94"N	120°57'33.03 E 120°57'33.70"E
41	Brgy. Poblacion	Adams	18°26'44.60"N	
42	Brgy. Poblacion	Adams	18°26'30.79"N	120°56'58.90"E
43	Brgy. Poblacion	Adams	18°26'6.35"N	120°57'5.14"E
44	Brgy. Poblacion	Adams	18°25'50.19"N	120°57'0.11"E
45	Brgy. Poblacion	Adams	18°25'47.47"N	120°56'1.39"E
46	Brgy. Poblacion	Adams	18°25'15.25"N	120°55'12.62"E

			1 000 HEO OCHAT	120°54'51.68"E
47	Brgy. Poblacion	Adams	18°24'59.96"N	
48	Brgy. Poblacion	Adams	18°24'36.92"N	120°54'27.38"E
49	Brgy. Poblacion	Adams	18°24'13.38"N	120°53'58.48"E
50	Brgy. Poblacion	Adams	18°24'10.27"N	120°53'29.03"E
51	Brgy. Poblacion	Adams	18°24'19.28"N	120°53'16.66"E
52	Brgy. Poblacion	Adams	18°24'40.49"N	120°52'56.49"E
53	Brgy. Poblacion	Adams	18°24'51.05"N	120°52'47.14"E
54	Brgy. Poblacion	Adams	18°25'6.73"N	120°52'30.32"E
55	Brgy. Poblacion	Adams	18°25'24.31"N	120°52'6.56"E
56	Brgy. Poblacion	Adams	18°25'33.41"N	120°51'51.76"E
57	Brgy. San Isidro	Dumalneg	18°25'53.94"N	120°51'33.42"E
58	Brgy. San Isidro	Dumalneg	18°26'3.57"N	120°51'24.44"E
59	Brgy. San Isidro	Dumalneg	18°26'4.29"N	120°50'55.84"E
60	Brgy. San Isidro	Dumalneg	18°26'27.76"N	120°50'30.66"E
61	Brgy. San Isidro	Dumalneg	18°26'47.41"N	120°50'6.75"E
62	Brgy. San Isidro	Dumalneg	18°27'13.51"N	120°49'49.18"E
63	Brgy. San Isidro	Dumalneg	18°27'39.78"N	120°49'57.11"E
64	Brgy. San Isidro	Dumalneg	18°28'6.56"N	120°49'48.51"E
65	Brgy. San Isidro	Dumalneg	18°28'28.40"N	120°50'3.90"E
66	Brgy. San Isidro	Dumalneg	18°29'0.04"N	120°49'54.88"E
67	Brgy. San Isidro	Dumalneg	18°29'33.12"N	120°49'49.98"E
68	Brgy. San Isidro	Dumalneg	18°29'55.22"N	120°49'37.43"E
69	Brgy. San Isidro	Dumalneg	18°30'13.64"N	120°49'26.82"E
70	Brgy. San Isidro	Dumalneg	18°30'6.44"N	120°49'5.42"E
71	Brgy. San Isidro	Dumalneg	18°30'0.12"N	120°48'50.07"E
72	Brgy. San Isidro	Dumalneg	18°30'0.42"N	120°48'35.50"E
73	Brgy. San Isidro	Dumalneg	18°29'42.40"N	120°48'10.84"E
74	Brgy. San Isidro	Dumalneg	18°29'43.26"N	120°47'54.43"E
75	Brgy. Payac	Bangui	18°29'47.76"N	120°47'33.49"E
76	Brgy. Payac	Bangui	18°29'48.86"N	120°47'18.18"E
77	Brgy. Payac	Bangui	18°29'52.54"N	120°46'46.31"E
78	Brgy. Payac	Bangui	18°30'23.06"N	120°46'40.58"E
79	Brgy. Payac	Bangui	18°30'43.61"N	120°46'34.61"E
80	Brgy. Payac	Bangui	18°30'58.64"N	120°46'22.39"E
81	Brgy. Bacsil	Bangui	18°31'16.84"N	120°46'32.96"E
82	Brgy. Nagbalagan	Bangui	18°31'45.01"N	120°46'34.90"E
83	Brgy. San Lorenzo	Bangui	18°32'10.12"N	120°46'41.87"E
84	Brgy. San Lorenzo	Bangui	18°32'40.38"N	120°46'5.28"E
04	Digy. buil Dolonzo			

Section 3. Political/Administrative Jurisdiction. The political/administrative jurisdiction of the BRS-WQMA encompasses the following areas:

Province	Municipality	Barangays
	Adams	Poblacion
	Bangui	Malasin, Nagblagan, Lanao, and San Lorenzo
Ilocos Norte	Dumalneg	San Isidro
	Pagudpud	Dampig, Ligaya, Pancian, and Tarrag

Section 4. Creation of the WQMA Governing Board. A WQMA Governing Board is hereby created, which shall be chaired by the Regional Director (RD) of the Environmental Management Bureau Regional Office No.1 (EMB-I), and shall have the following members:

- a) Representative of the National Water Resources Board
- b) Representative of the Governor, Province of Ilocos Norte
- c) The Mayors of the following Municipalities or their duly authorized representative:
 - i. Municipality of Adams, Ilocos Norte;
 - ii. Municipality of Bangui, Ilocos Norte;
 - iii. Municipality of Dumalneg, Ilocos Norte;
 - iv. Municipality of Pagudpud, Ilocos Norte;
- d) Representatives of the following Regional Offices in Region I:
 - i. Department of Environment and Natural Resources;
 - ii. Department of Public Works and Highways;
 - iii. Department of Health;
 - iv. Department of Education;
 - v. Department of Science and Technology;
 - vi. Department of Trade and Industry;
 - vii. Department of Agriculture;
 - viii. Department of Tourism;
 - ix. Department of the Interior and Local Government;
 - x. National Economic and Development Authority;
 - xi. Bureau of Fisheries and Aquatic Resources;
 - xii. National Irrigation Administration;
 - xiii. National Commission on Indigenous People;
 - xiv. Provincial Environment and Natural Resources Office- Ilocos Norte;
 - xv. Community Environment and Natural Resources Office- Bangui;
 - xvi. Regional Development Council
- e) Regional representative of the following:
 - i. Water Utility Sector
 - ii. Duly registered Non- Government Organizations/ Local Peoples' Organizations/ Civil Societies involved in Natural Resource Management or Environmental Concerns;
 - iii. Academe;
 - iv. Farmers' Association

The Board may also invite other agencies/institutions to participate in the deliberations of the Board, as necessary.

The terms, vacancy and compensation of expenses of the Governing Board shall be governed by DAO 2005-10. The Local Chief Executive and Head of Offices may appoint/authorize their respective representatives to the Board, provided that he/she is authorized to make commitments on behalf of the office he/she represents. Provided, further, that the LGU representatives in other WQMAs shall also serve as representative in the Bolo River WQMA.

Representatives from the business sector and peoples' organizations/non-government organizations/civil society shall be designated in accordance with the procedure and requirements laid down in DAO 2005-10.

Section 5. Functions of the Governing Board. The Governing Board shall have the following functions:

a) Formulate the Governing Rules that will ensure effective management of the WQMA Governing Board;

- b) Elect other officers and create working committees within the Board that are deemed necessary for the effective implementation of WQMA policies, programs and activities;
- c) Review and adopt the WQMA Action Plan drafted by the EMB Region I in accordance with the Integrated Water Quality Management Framework and prepare a common and integrated compliance scheme. Thereafter, prepare the succeeding action plans for submission to the DENR;
- d) Together with EMB Region I, assist the Local Government Units in preparing the LGU Compliance Scheme to implement the WQMA Action Plan and drafting local legislation to protect Bolo River and promote overall environmental improvement in the WQMA;
- e) Monitor and facilitate LGU compliance with the WQMA Action Plan; by the local government units;
- f) Formulate strategies to harmonize policies/regulations/local legislations necessary for the effective implementation of R.A. 9275 in accordance with those established under the integrated Water Quality Management Framework;
- g) Recommend local and national legislations that will protect the water quality of Bolo River;
- h) Coordinate relevant activities among its members and member agencies and facilitate the resolution of conflicts;
- i) Undertake complementary interventions for non-point sources, considering their greater contribution to pollution;
- j) Undertake projects that will complement national and local initiatives for water pollution control;
- k) Solicit financial and non-financial support from other parties, both local and international, subject to existing applicable regulations;
- Initiate and/or coordinate information dissemination activities pertaining to Bolo River System WQMA;
- m) Prepare and publish on a regular basis, a Water Quality Status Report for the WQMA and submit a copy thereof to the EMB Region I and to the EMB Central Office which shall be consolidated into the National Water Quality Status Report; and
- n) Manage efficiently and judiciously the Area Water Quality Management Fund.

Section 6. Governing Rules. The Governing Board shall formulate its own Governing Rules based on applicable and pertinent laws, policies, rules, and regulations. Based on its Governing Rules, the Governing Board may elect at least one Co-chair, create standing committees as may be necessary to carry out the Board's functions, and designate their respective chairs.

Section 7. Meetings. The Governing Board shall meet quarterly or as often as may be required pursuant to its Governing Rules.

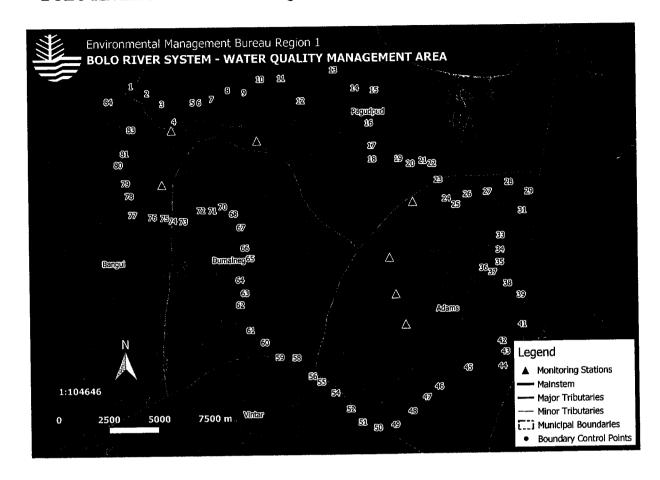
- Section 8. Technical Working Group and Technical Secretariat. The Governing Board, pursuant to DENR Administrative Order No. 2005-10 and under the governing rules shall form a Technical Working Group (TWG) or Committees to ensure broad-based participation of all stakeholders in the work of the Governing Board. The TWG shall perform the following functions:
 - a) Provide guidance to the WQMA Governing Board in the operationalization of the designated WQMA,
 - b) Assist the Governing Board in preparation of the annual work program and financial plans,
 - c) Provide technical inputs in the review of the draft WQMA Action Plan (initially prepared by the EMB Regional Office), and in tracking and monitoring of compliance to the WQMA Action Plan, and
 - d) Perform other functions to be assigned by the Governing Board.

The Governing Board shall likewise create a Technical Secretariat of the WQMA, which shall be based at the EMB Region I, DENR.

- **Section 9. Multi-Sectoral Group.** In accordance with DAO 2005-10, the Governing Board shall create a Multi-Sectoral group for water quality monitoring and surveillance network, composed of representatives, nominated by the members of the Governing Board. Said group shall augment and complement monitoring and reporting efforts of the EMB Region I.
- Section 10. Re-designation of WQMA. When necessary, and only after undertaking necessary studies and conducting consultations with relevant local government authorities, the Secretary of the DENR, upon recommendation of the EMB, shall revise the designation of WQMA, re-adjust its boundaries or reconstitute its membership for adequate representation.
- **Section 11. Amendments and Revisions.** Amendments or revisions of any of the provisions, hereof, shall be made only, upon consultations with the concerned stakeholders in accordance with existing policies on the matter and subject to the written approval by majority of the parties thereto.
- Section 12. Separability Clause. Should any of the previous provisions of this Order be subsequently declared invalid or null and void, the validity of the other provisions not affected shall not be impaired and shall remain to be in full force and effect.
- **Section 13.** Effectivity. This Order shall take effect fifteen (15) days after its publications in a newspaper of general circulation and its registration with the Office of the National Administrative Registry (ONAR).

ROY A. CIMATU Secretary

ANNEX A-1 BOLO RIVER SYSTEM WATER QUALITY MANAGEMENT AREA MAP





Republic of the Philippines

Department of Environment and Natural Resources

Visayas Avenue, Diliman, Quezon City Tel. Nos. (632) 929-66-26 to 29 • (632) 929-62-52 Website: http://www.denr.gov.ph / E-mail: web@denr.gov.ph

DENR Administrative OrderNo. 2021 -

SUBJECT:

DESIGNATION OF PANGLAO ISLAND COASTAL WATERS AS A WATER QUALITY MANAGEMENT AREA (WOMA) AND CREATION OF ITS GOVERNING BOARD.

Pursuant to Section 5 of the Philippine Clean Water Act of 2004 (R.A. No. 9275) together with the pertinent provisions in its Implementing Rules and Regulations (DENR Administrative Order No. 2005-10) and DENR Memorandum Circular No. 15, series of 2009, and considering the critical importance to Tagbilaran City and the Municipalities of Dauis and Panglao, Panglao Island Coastal Waters in Bohol is hereby designated as Water Quality Management Area (WQMA).

Section 1. Policy and Objectives. It is the policy of the State to pursue economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine water. Pursuant to this policy statement, this Order aims at protecting and improving the water quality of Panglao Island Coastal Waters to make it a sustaining resource for the people of Tagbilaran City, and the Municipalities of Dauis and Panglao, Bohol consistent with the following water quality management objectives:

- a) To improve and maintain the water quality of Panglao Island Coastal Waters and thereby contribute to the enhancement of Tagbilaran City and the municipalities of Dauis and Panglao as tourism and economic destinations, and serve the best interest of the communities and stakeholders;
- b) To formulate a WQMA program which recognizes that water quality management issues are inherently related and cannot be detached from concerns on liquid, solid, and hazardous wastes, water sources, ecological protection, water supply, public health and quality of life.
- c) To mobilize, encourage and support civil society and other sectors, including the academe and businesses engaged in environment-related activities in their efforts to organize, educate and motivate the people in addressing pertinent environmental issues and problems in the WQMA;
- d) To promote inter-LGU and stakeholder collaboration and cooperation through coordinated efforts in protecting and sustaining acceptable quality of water in Panglao Island Coastal Waters.

e) Support the establishment of septage, sewage and sewerage management programs for the protection of the environment and public health.

Section 2. Scope and Coverage. The Panglao Island Coastal Waters WQMA, with a total area of 18,174.29 hectares, shall cover the Panglao Island Coastal Waters, the natural or man-made tributaries in Panglao Island that drain into the coastal waters are within the WQMA boundary including the land embraced by the hydrologic unit identified through various maps.

The WQMA is bounded by the following geographic coordinates which are consistent with the map in Annex A:

Boundary Control Point	LGU with Jurisdiction	LATITUDE	LONGITUDE
1	Along boundary of Panglao Bay Reef Flat, Doljo, Panglao	9°34'49.72" N	123°42'39.99" E
2	Along boundary of Panglao Bay Reef Flat, Doljo, Panglao	9°33'52.42" N	123°42'42.33" E
3	Along boundary of Panglao Bay Reef Flat, Doljo, Panglao	9°33'05.61" N	123°42'12.44" E
4	Coastal Waters connecting Mainland Panglao and Balicasag Island, Panglao	9°32'30.19" N	123°41'29.04" E
5	Coastal Waters Northwest of Balicasag Island, Panglao	9°31'38.19" N	123°40'39.84" E
6	Coastal Waters Southwest of Balicasag Island, Panglao	9°30'25.26" N	123°40'39.40" E
7	Coastal Waters East of Balicasag Island, Panglao	9°30'58.97" N	123°41'55.10" E
8	Coastal Waters connecting Mainland Panglao and Balicasag Island, Panglao	9°31'35.71" N	123°42'21.78" E
9	Along boundary of Panglao Bay Reef Flat, Danao, Panglao	9°32'24.48" N	123°42'27.23" E
10	Along boundary of Panglao Bay Reef Flat, Danao, Panglao	9°32'42.60" N	123°43'48.67" E
11	Along boundary of Panglao Bay Reef Flat, Danao, Panglao	9°32'28.17" N	123°44'38.69" E
12	Coastal Waters along Barangay Danao, Panglao	9°32'11.75" N	123°45'44.09" E
13	Coastal Waters along Barangay Tawala, Panglao	9°32'21.10" N	123°46'24.30" E
14	Coastal Waters along Barangay		123°47'08.66" E
15	Coastal Waters along Barangay Bolod, Panglao	9°32'33.59" N	123°47'55.48" E
16	Coastal Waters along Barangay Bolod, Panglao	9°33'08.63" N	123°48'50.37" E
17	Coastal Waters along Barangay Libaong, Panglao	9°33'56.39" N	123°49'35.35" E
18	Coastal Waters along Barangay San Isidro, Dauis	9°34'40.85" N	123°50'35.46" E
19	Coastal Waters along Barangay	9°35'00.53" N	123°51'45.54" E

		1	
	Biking, Dauis		
20	Coastal Waters along Barangay Catarman, Dauis	9°35'59.98" N	123°52'38.97" E
21	Coastal Waters along Barangay Mayacabac, Dauis	9°36'58.90" N	123°52'42.76" E
22	Coastal Waters between Dauis and Tagbilaran City, near Baclayon boundary	9°37'33.72" N	123°52'50.99" E
23	Bool, Tagbilaran City	9°37'29.99" N	123°53'17.99" E
24	Bool, Tagbilaran City	9°37'31.22" N	123°53'19.10" E
25	Bool, Tagbilaran City	9°37'49.36" N	123°53'18.73" E
26	Bool, Tagbilaran City	9°38'4.78" N	123°53'18.42" E
27	Bool, Tagbilaran City	9°38'31.38" N	123°53'17.88" E
28	Dampas, Tagbilaran City	9°39'5.58" N	123°53'17.09" E
29	Dampas, Tagbilaran City	9°39'23.70" N	123°53'17.12" E
30	San Isidro, Tagbilaran City	9°39'55.33" N	123°53'17.56" E
31	San Isidro, Tagbilaran City	9°40'18.552" N	123°53'18.276" E
32	San Isidro, Tagbilaran City	9°40'47.59" N	123°53'18.61" E
33	San Isidro, Tagbilaran City	9°40'56.28" N	123°53'18.78" E
34	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'31.78" N	123°53'22.24" E
35	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'34.94" N	123°53'15.83" E
36	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'39.61" N	123°53'11.22" E
37	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'38.15" N	123°53'7.66" E
38	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'37.68" N	123°53'5.86" E
39	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'38.15" N	123°53'4.02" E
40	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'39.37" N	123°53'0.31" E
41	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'38.62" N	123°52'57.97" E
42	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'36.96" N	123°52'56.03" E
43	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'39.52" N	123°52'51.71" E
44	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'37.90" N	123°52'50.09" E
45	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'38.57" N	123°52'48.61" E
46	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'41.17" N	123°52'45.98" E
47	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'48.91" N	123°52'46.63" E
48	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'49.66" N	123°52'43.66" E
49	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'52.37" N	123°52'37.70" E
50	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'55.36" N	123°52'34.14" F

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51	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'54.14" N	123°52'32.28" E
52	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'51.83" N	123°52'32.12" E
53	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'51.18" N	123°52'28.88" E
54	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'50.06" N	123°52'26.94" E
55	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'47.61" N	123°52'28.02" E
56	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'44.88" N	123°52'26.75" E
57	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'43.37" N	123°52'23.45" E
58	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'43.91" N	123°52'19.75" E
59	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'43.21" N	123°52'16.74" E
60	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'38.24" N	123°52'14.28" E
61	Tiptip, Tagbilaran city, near Cortes Boundary	9°41'37.21" N	123°52'11.65" E
62	Manga, Tagbilaran City	9°41'40.08" N	123°51'49.23" E
63	Manga, Tagbilaran City	9°41'40.59" N	123°51'47.41" E
64	Manga, Tagbilaran City	9°41'47.14" N	123°51'46.53" E
65	Manga, Tagbilaran City	9°41'49.23" N	123°51'44.55" E
66	Manga, Tagbilaran City	9°41'52.46" N	123°51'44.90" E
67	Manga, Tagbilaran City	9°41'53.11" N	123°51'44.42" E
68	Manga, Tagbilaran City	9°41'54.34" N	123°51'45.01" E
69	Manga, Tagbilaran City	9°41'55.60" N	123°51'45.32" E
70	Manga, Tagbilaran City	9°41'59.56" N	123°51'45.08" E
71	Manga, Tagbilaran City	9°42'0.74" N	123°51'43.50" E
77	Coastal Waters along Manga, Tagbilaran City	9°42'25.15" N	123°51'20.88" E
78	Coastal Waters along Manga, Tagbilaran City	9°42'0.37" N	123°50'41.90" E
79	Coastal Waters along Taloto, Tagbilaran City	9°41'21.81" N	123°50'32.91" E
80	Coastal Waters along Taloto, Tagbilaran City	9°40'50.75" N	123°50'14.38" E
81	Coastal Waters along Taloto, Tagbilaran City	9°40'10.61" N	123°50'0.13" E
82	Coastal Waters along Barangay Sonculan, Dauis across Booy, Tagbilaran City	9°39'10.82" N	123°50'05.84" E
83	Coastal Waters along Barangay Tabalong, Dauis	9°38'46.18" N	123°49'23.66" E
84	Coastal Waters along Barangay Bingag, Dauis	9°38'10.85" N	123°48'16.57" E
85	Coastal Waters along Barangay Bingag, Dauis	9°37'58.30" N	123°47'11.22" E
86	Coastal Waters along Barangay Tangnan, Panglao	9°37'41.15" N	123°46'25.35" E
87	Coastal Waters along Barangay	9°37'14.87" N	123°45'45.13" E

	Tangnan, Panglao		
77	Coastal Waters along Barangay Bil- isan, Panglao	9°36'33.27" N	123°45'07.05" E
78	Coastal Waters along Barangay Looc, Panglao	9°36'00.51" N	123°44'12.42" E
79	Coastal Waters along Barangay Doljo, Panglao	9°35'52.11" N	123°43'41.27" E
80	Coastal Waters along Barangay Doljo, Panglao	9°35'39.86" N	123°42'41.01" E

Section 3. Political / Administrative Jurisdiction. As determined by the DENR – EMB Region VII, the political / administrative jurisdiction of the Panglao Island Coastal Waters Water Quality Management Area encompasses the following areas in Tagbilaran City and the Municipalities of Dauis and Panglao in Bohol Province:

Municipality / City	Barangay
	Biking
	Bingag
	Catarman
	Dao
	Mariveles
Dauis	Mayacabac
	Poblacion
	San Isidro
	Songculan
•	Tabalong
	Tinago
	Totolan
	Bil-isan
	Bolod
	Danao
	Doljo
Danalaa	Libaong
Panglao	Looc
	Lourdes
	Poblacion
	Tangnan
	Tawala
	Bool
	Cabawan
	Cogon
	Dampas
Tagbilaran City	Dao
	Manga
	Mansasa
	Poblacion I
	Poblacion II

 Poblacion III
San Isidro
Taloto
Tiptip
Ubujan

Section 4. Creation of the WQMA Governing Board. A WQMA Governing Board to be chaired by the Regional Director of the Environmental Management Bureau, Region VII, is hereby created and shall have the following members:

- a) Representative of the National Water Resources Board (NWRB)
- b) Representative of the Governor, Province of Bohol
- c) The Mayor of the City / Municipality or their duly authorized representative of the following;
 - 1) Municipality of Dauis
 - 2) Municipality of Panglao
 - 3) Tagbilaran City
- d) Representatives of the following Regional Offices in Region VII
 - 1) Department of Tourism;
 - 2) Department of the Interior and Local Government;
 - 3) Department of Public Works and Highways;
 - 4) Department of Health;
 - 5) Department of Social Work and Development;
 - 6) Department of Science and Technology;
 - 7) Department of Human Settlements and Urban Development;
 - 8) Department of Budget and Management;
 - 9) National Economic and Development Authority;
 - 10) Bureau of Fisheries and Aquatic Resources;
 - 11) Philippine Ports Authority; and
 - 12) Regional Development Council
- e) Regional Representative of the following;
 - 1) Duly registered Non-Government Organization/ Local People's Organization/ Civil Society involved in Natural Resource Management or Environment Concerns
 - 2) Water Utility
 - 3) Business /Industry
 - 4) Academe
 - 5) Association of Barangay Captains;
- f) Representative of the Fisheries and Aquatic Resources Management Council/s.

The Board may also invite representatives from the Philippine Coast Guard and the Philippine National Police, among others to participate in the deliberations of the Board as needed.

The terms, vacancy and reimbursement of expenses of the Governing Board shall be governed by DENR Administrative Order No. 2005-10. The Local Chief Executives and Head of Office may appoint/ authorize representatives to the Board, provided that he/she shall be able to make commitments on behalf of his/her agency; Provided, further that the LGU representative in another WQMA shall also serve as its representative in the Panglao Island Coastal Waters WQMA.

Representatives from the business sector and peoples' organizations/non-government organizations/civil society shall be designated in accordance with the procedure and requirements laid down in DAO 2005-10.

Section 5. Functions of the Governing Board. The Governing Board shall have the following functions:

- a) Formulate the Governing Rules that will ensure management effectiveness of the WQMA Governing Board;
- b) Elect other officers and create working committees within the Board that are deemed necessary for the effective implementation of WQMA policies, programs, and activities; and
- c) Review and adopt the WQMA Action Plan drafted by the EMB Region VII in accordance to the Integrated Water Quality Management Framework and prepare a common and integrated compliance scheme. Thereafter, prepare the succeeding action plans for the submission to the DENR;
- d) Together with EMB Region VII, assist the Local Government Units in preparing the LGU Compliance Scheme to implement the WQMA Action Plan and drafting legislation to protect Panglao Island Coastal Waters and promote overall environmental improvement in the WQMA;
- e) Monitor and facilitate the compliance to the WQMA Action Plan by the local governments;
- f) Formulate strategies to harmonize policies/ regulations/ local legislation necessary for the effective implementation of R.A. 9275 in accordance with those established in the Integrated Water Quality Management Framework;
- g) Coordinate relevant activities among its members and member agencies and facilitate resolution of conflicts; and
- h) Undertake complementary interventions for non-point sources, considering their greater contribution to pollution.

- i) Undertake projects that will complement national and local initiatives for water pollution control;
- j) Solicit financial, and non-financial support from other parties, both local and international, subject to existing applicable regulations;
- k) Initiate and/or coordinate information dissemination activities pertaining to Panglao Island Coastal Waters WQMA;
- Prepare and publish on a regular basis, a Water Quality Status Report for the WQMA and submit a copy thereof to the EMB Region VII and to the EMB Central Office to be consolidated into the national Water Quality Status Report;
- m) Manage efficiently and judiciously the Area Water Quality Management Fund.

Section 6. Governing Rules. The Governing Board shall formulate its own Governing Rules based on applicable and pertinent laws, policies, rules and regulations. Based on the Governing Rules, the Governing Board may elect at least one Co-chair, create standing committees as may be necessary to carry out the Board's functions, and designate their respective chairs.

Section 7. Meetings. The Governing Board shall meet quarterly or as often as may be required pursuant to its Governing Rules.

Section 8. Technical Working Group and Technical Secretariat. The Governing Board, pursuant to DENR Administrative Order No. 2005-10 and under the governing rules shall form a technical Working Group (TWG) or Committees to ensure broad-based participation of all stakeholders in the work of the Governing Board. The TWG shall perform the following functions:

- a) Provide guidance to the WQMA Governing Board in the operationalization of the designated WQMA,
- b) Assist the Governing Board in preparation of the annual work program and financial plans,
- c) Provide technical inputs in the review of the draft WQMA Action Plan (initially prepared by the EMB Regional Office), and in tracking and monitoring of compliance to the WQMA Action Plan, and
- d) Perform other functions to be assigned by the Governing Board.

The Governing Board shall likewise create a Technical Secretariat of the WQMA, which shall be based at the EMB-Region VII, DENR.

Section 9. Multi-Sectoral Group. In accordance with DENR Administrative Order No. 2005-10, the Governing Board shall create a Multi-Sectoral Group for water quality monitoring and surveillance network, composed of representatives nominated by the members of the Governing Board. Said group shall augment and complement monitoring and reporting efforts of the DENR/EMB.

Section 10. Re-designation of WQMA. When necessary, and only after undertaking necessary studies and conducting consultations with relevant local government authorities, the Secretary of the DENR, upon recommendation of the EMB, shall revise the designation of WQMA, re-adjust its boundaries or reconstitute its membership for adequate representation.

Section 11. Amendments and Revisions. Amendments or revisions of any of the provisions of this order shall be upon consultation with the concerned stakeholders in accordance with existing policies on the matter.

Section 12. Separability Clause. Should any of the provisions of this Order be subsequently declared invalid or null and void, the validity of the other provisions not affected shall not be impaired and shall remain to be in full force and effect.

Section 13. Effectivity. This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and its registration with the Office of the National Administrative Registry (ONAR).

ROY A. CIMATU Secretary

ANNEX "A" PANGLAO ISLAND COASTAL WATERS WATER QUALITY MANAGEMENT AREA

