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DENR Administrative Order
No. 2016 19

JUN 21 2016

Subject: Designation of the Cañas-Maalimango Rivers Water Quality Management Area and Creation of Its Governing Board

Pursuant to Section 5 of RA 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 Manila Bay and to the cities and municipalities of Cavite, the **Cañas-Maalimango Rivers in the Province of Cavite 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 waters. Pursuant to this policy statement, this Order aims at protecting and improving the water quality of Cañas-Maalimango Rivers, consistent with the following water quality management objectives:

- a) To improve the water quality of Cañas-Maalimango Rivers and thereby contribute to the enhancement of the cities of Tagaytay and Trece Martires and the municipalities of Rosario, Tanza, General Trias, Amadeo and Indang as a source of water for irrigation and other agricultural uses 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 or cannot be detached from concerns on water sources, ecological protection, water supply, public health and quality of life;
- c) To encourage, support, and mobilize civil society and other sectors, including the academe and businesses engaged in environment-related activities in their efforts to organize and educate 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 the Cañas-Maalimango Rivers; and
- e) To harness locally available resources to support rehabilitation and protection efforts of the Cañas-Maalimango Rivers.

Let's Go Green!!!

SECTION 2. Coverage. The Cañas-Maalimango Rivers WQMA in the Province of Cavite shall cover its natural or man-made tributaries that are within the WQMA boundary including the land embraced by the hydrologic unit identified through various maps. The proposed WQMA has a total area of 11,893.31 hectares.

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

1	14° 24' 10.96"	120° 50' 29.28"	Las Palmas Beach Resort, Brgy. Julugan IV, Tanza, Cavite
2	14° 23' 32.69"	120° 51'08.92"	Major Intersection, Daang Amaya II, Tanza, Cavite (Trece, Rosario, Naic, Rd Intersection)
3	14° 22'53.41"	120° 51'16.43"	Rd. cor. to Daang Amaya, Brgy. Mulawin, Tanza, Cavite
4	14° 21'51.37"	120° 51'19.47"	Rd. cor. To Villa Tanza Subd. , Brgy. Biga, Tanza, Cavite
5	14° 21'20.77"	120° 51'34.70"	Rd. curve To Brgy. Punta I, Tanza
6	14° 19'30.48"	120° 51'36.42"	Rd. corner Paradahan Elem. School, Brgy. Paradahan II, Tanza, Cavite
7	14° 18'08.35"	120° 51'49.07"	Jetron Gasoline Station, Brgy. De Ocampo, Trece Martires City, Cavite
8	14° 17'26.83"	120° 52'05.44"	Rd. curve Iglesia ni Cristo, Brgy. San Agustin, Trece Martires City, Cavite
9	14° 16'49.45"	120° 52'07.07"	Rd. Intersection, Trece Martires City Fire Station, Brgy. San Agustin , Trece Martires City, Cavite
10	14° 15'46.31"	120° 52'36.37"	Rd. corner to Sampaguita Village, Brgy. Inocencio, Trece Martires City, Cavite
11	14° 14'44.37"	120° 52'42.58"	Rd. cor. Somico Steel Mill Corp. Brgy. Aguado, Trece Martires City, Cavite
12	14° 13'54.32"	120° 52'54.01"	Indang-Trece Martires City Rd. Boundary, Brgy. Mataas na Lupa, Indang, Cavite
13	14° 13'22.25"	120° 53'08.07"	Rd. cor. To sign of Cruz, Brgy. Mataas na Lupa, Indang, Cavite
14	14° 12'46.75"	120° 53'41.60"	Agro-Farm near Amadeo-Indang Boundary, Brgy. Alulod, Indang, Cavite
15	14° 12'04.03"	120° 53'46.61"	Rd. cor. to Agro Farm, Brgy. Kaytapos, Indang, Cavite
16	14° 11'10.84"	120° 53'53.76"	Ridge, Brgy. Buna Cerca, Indang, Cavite
17	14° 8'24.11"	120° 55'17.14"	Rd Cor. To agro farm, Brgy. Mahabang Kahoy Lejos (Balagbag), Indang, Cavite
18	14° 06'21.5"	120° 55'38.7"	Rd. cor. To Little Souls Sisters Chapel, Brgy. Patutong Malaki South, Tagaytay City, Cavite
19	14° 05'42.46"	120° 56'26.98"	Rd. curve (Tagaytay-Nasugbu Rd.) Near Petron Gas, Brgy. Kaybagal South, Tagaytay City, Cavite
20	14° 05'58.10"	120° 55'42.01"	Rd. MERALCO, (Tagaytay-Nasugbu Rd.) Brgy. Maharlika West, Tagaytay City, Cavite
21	14° 06'7.66"	120° 56'50.85"	Rd. Petron Gas, (Tagaytay-Nasugbu Rd.) Brgy. Maharlika East, Tagaytay City, Cavite
22	14° 06'09.60"	120° 57'03.70"	Rd. (Tagaytay - Nasugbu Rd.) Intersection, Magallanes Square Hotel, Brgy. Silang Crossing West, Tagaytay City, Cavite
23	14° 08'30.54"	120° 56'25.45"	Ridge, Brgy. Maymangga, Amadeo, Cavite

24	14° 10' 39.41"	120° 55' 45.49"	Along General Trias-Tagaytay Rd. Brgy. Dagatan, Amadeo, Cavite
25	14° 12' 07.80"	120° 56' 07.70"	Brgy. Hall, Brgy. Banay-banay, Amadeo, Cavite
26	14° 13' 39.84"	120° 55' 26.80"	Amigonian Fathers Youth Center, Brgy. Panungyanan, Gen. Trias, Cavite
27	14° 15' 56.81"	120° 54' 52.11"	Gateway Business Park, Brgy. Javalera, Gen. Trias, Cavite
28	14° 17' 28.47"	120° 54' 54.64"	Lyceum of the Phils. Univ. Brgy. Manggahan, Gen. Trias, Cavite
29	14° 18' 16.39"	120° 54' 31.96"	Hidden Vega Resort, Brgy. Buenavista, Gen. Trias, Cavite
30	14° 21' 04.92"	120° 52' 34.35"	Rd. Intersection, near footbridge, Brgy. Pasong Kawayan 1, Gen. Trias, Cavite
31	14° 22' 10.45"	120° 52' 44.02"	Footbridge along irrigation Canal, Brgy. Tapia, Gen. Trias, Cavite
32	14° 23' 12.18"	120° 52' 35.61"	Rd. Intersection near Gen. Trias Convention /Cultural Center, Brgy. Sampalucan Gen. Trias, Cavite
33	14° 24' 07.2"	120° 52' 26.8"	Gate 4 Cavite Economic Zone, Bacao Road, General Trias, Cavite
34	14° 25' 20.77"	120° 52' 35.46"	Rd.-Fence Cor. Brgy. Ligtong III, Rosario, Cavite
35	14° 25' 31.72"	120° 52' 24.21"	Rd. Boundary (Noveleta-Rosario) Brgy. Ligtong III, Rosario and Brgy. Salcedo II, Noveleta, Cavite
36	14° 25' 49.90"	120° 52' 09.48"	End of Break water (Coastal of Manila Bay), Brgy. Ligtong II, Rosario, Cavite
37	14° 25' 8.54"	120° 50' 56.49"	Fish Terminal/ Pandawan, Brgy. Sapa II, Rosario, Cavite

SECTION 3. Political/Administrative Jurisdiction. The political/administrative jurisdiction of the proposed Cañas-Maalimango Rivers WQMA encompasses the following areas:

City/Municipality	Barangay	
Tagaytay City	Kaybagal North	Maharlika East
	Kaybagal South	Mendez Crossing East
	Maharlika West	
Trece Martires City	De Ocampo	Osorio
	San Agustin	Perez (Lucbanan)
	Luciano (Bitangan)	Conchu (Lagundian)
	Inocencio	
Rosario	Wawa I	Ligtong II
	Wawa II	Ligtong III
	Wawa III	Ligtong IV
	Sapa I	Silangan I
	Sapa II	Silangan II
	Sapa III	Bagbag I
	Sapa IV	Bagbag II
	Kanluran	Muzon I
	Poblacion	Muzon II
	Ligtong I	Tejeros Convention

Tanza	Julugan 1	Poblacion 4
	Julugan 2	Bucal
	Julugan 3	Santol
	Julugan 4	Bunga
	Julugan 5	Mulawin
	Biwas	Sanja Mayor
	Daang Amaya I	Biga
	Daang Amaya II	Punta 1
	Daang Amaya III	Punta 2
	Poblacion 1	Paradahan 1
	Poblacion 2	Paradahan 2
	Poblacion 3	
	General Trias	Tejero
San Juan I		Buenavista I
San Juan II		Manggahan
Pinagtipunan		Javalera
Tapia		Panungyanan
Pasong Kawayan I		Sampalucan
Indang	Mataas na Lupa	Buna Lejos I
	Alulod	Buna Lejos II
	Limbon	Mahabang Kahoy Cerca
	Buna Cerca	Mahabang Kahoy Lejos (Balagbag)
Amadeo	Banay-banay	Barangay VI (Pob.)
	Dagatan	Barangay VII (Pob.)
	Barangay I (Pob.)	Barangay VIII (Pob.)
	Barangay X (Pob.)	Barangay IX (Pob.)
	Barangay XI (Pob.)	Pangil
	Barangay XII (Pob.)	Tamacan
	Barangay II (Pob.)	Buho
	Barangay III (Pob.)	Loma
	Barangay IV (Pob.)	Maymangga
	Barangay V (Pob.)	Salaban

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, (EMB), Region IV-A, and shall have the following members:

- a) Duly authorized representative from the Office of the Governor, Province of Cavite;
- b) Duly authorized representative from the Office of the Mayor of the following Cities/ Municipalities of Cavite Province:
 - 1) Tagaytay City
 - 2) Trece Martires City
 - 3) Municipality of Rosario
 - 4) Municipality of Tanza
 - 5) Municipality of General Trias
 - 6) Municipality of Indang
 - 7) Municipality of Amadeo

- c) Regional Director or duly authorized representative from the following government offices in Region IV-A:
 - 1) Department of Public Works and Highways (DPWH)
 - 2) Department of Health (DOH)
 - 3) Department of Agriculture (DA)
 - 4) Department of Education (DepEd)
 - 5) Department of Tourism (DOT)
 - 6) Department of Science and Technology (DOST)
 - 7) Department of Trade and Industry (DTI)
 - 8) Department of the Interior and Local Government (DILG)
 - 9) National Economic and Development Authority (NEDA)
 - 10) National Irrigation Administration (NIA)
 - 11) Bureau of Fisheries and Aquatic Resources (BFAR)
 - 12) Housing and Land Use Regulatory Board (HLURB)
- d) Duly authorized representative from the Provincial Environment and Natural Resources Office (PENRO), DENR Cavite Province;
- e) Duly authorized representative from the National Water Resources Board (NWRB);
- f) Duly authorized representative from the Philippine Economic Zone Authority (PEZA);
- g) Duly authorized representative from the Fisheries and Aquatic Resources Management Council (FARMC);
- h) Area Representative from the following sectors:
 - 1) Business/Industry
 - 2) Water Utility
 - 3) Duly registered Non-Government Organizations/Local Peoples' Organizations/Civil Societies involved in Natural Resource Management or Environmental Concerns
 - 4) Academe

The Board may also invite representatives from other agencies/institutions to participate in the deliberations of the Board as needed.

The terms, vacancy and compensation of the Governing Board shall be governed by DAO 2005-10. The Local Chief Executives and Heads of Offices may appoint/authorize representatives to the Board, provided that he/she shall be able 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 Cañas-Maalimango Rivers 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;

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 and other officers, create working committees as may be necessary to carry out the Board's functions, and designate

Governing Board.

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

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, drawing membership from representatives nominated by the member LGUs, national government agencies and other organizations represented in 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 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 of all the parties thereto.

SECTION 12. Separability Clause. Should any provision/s 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 fifteen (15) days after its registration with the Office of the National Administrative Register (ONAR).


RAMON J. PAJE
Secretary *art*

Recommending Approval:


ATTY. JUAN MIGUEL T. CUNA
DENR Assistant Secretary
and concurrent EMB Director



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ANNEX 3

ANALYSIS OF EXISTING CONDITIONS WATER QUALITY AT THE WATERSHED ENTRANCE

