

SUBMISSION OF ERADICATION PROGRAMMES FOR CATEGORY C DISEASES OF AQUATIC ANIMALS

in accordance with Chapter 3 of Part II of Regulation (EU) 2020/689 and Article 10 of Commission Implementing Regulation (EU) 2020/2002

1. General information	
1.1. Date of submission	
1.2. Declaring Member State	
Italy	
1.3. Diseases	
1.3.a. Fish	<input checked="" type="checkbox"/> VHS <input checked="" type="checkbox"/> IHN
1.3.b. Molluscs	<input type="checkbox"/> Infection with <i>Marteilia refringens</i> <input type="checkbox"/> Infection with <i>Bonamia ostreae</i> <input type="checkbox"/> Infection with <i>Bonamia exitiosa</i>
1.3.c. Crustaceans	<input type="checkbox"/> White spot disease
<input type="checkbox"/> Other	
1.4. Contact details	
Name	Dr Maroni Ponti Andrea
Role within the Competent Authority	Aquaculture referent Ministry of Health, Directorate General for the hygiene and food safety and nutrition - Office II
E-mail:	a.maroni@sanita.it
1.5. Local Competent Authority	
A.T.S. di Bergamo Veterinary Department and Animal Food Safety Via Borgo Palazzo 130, 24121, Bergamo Phone number: + 39 035 22 70 686 e-mail: direzione.dpv@ats-bg.it Veterinary Officer: Dr. Matteo Donati	
1.6. Laboratory in charge of analysis	
IZSLER – Experimental Zooprofilactic Institute Of Lombardy and Emilia Romagna – Site of Bergamo Via A. Bianchi 9, 25124, Brescia Dr. Cristian Salogni	

Phone number: +39 030 22 90 271 E-mail: cristian.salogni@izsler.it
2. Area covered
2.1. <input type="checkbox"/> Zone (entire water catchment area) ¹
2.2. <input checked="" type="checkbox"/> Zone (part of water catchment area) ² <i>Identify and describe the artificial or natural barrier that delimits the zone and justify its capability to prevent the upward migration of aquatic animals from the lower stretches of the water catchment area</i>
The Zone of the Brembo River encompasses the Brembo River water catchment from the sources of all its tributaries to the artificial barrier located in Ponte San Pietro (WGS84 coordinates: 45°41'45.4"N 9°35'25.2"E). The barrier is approximately 2 m high and straight and it's then effective in preventing the upstream migration of aquatic animals (Annex 2)
2.3. <input type="checkbox"/> Zone (more than one water catchment area) ³
2.4. <input type="checkbox"/> Compartment ⁴ dependent of the surrounding health status ⁵
<input type="checkbox"/> Single establishment <input type="checkbox"/> Group of establishments ⁶
3. Territorial scope
3.1. Zone or compartment identification
Zona del Fiume Brembo
3.2 Description of geographical and administrative area covered
The Zona del Fiume Brembo encompasses the Brembo River water catchment from the sources of all its tributaries to the artificial barrier located in Ponte San Pietro (WGS84 coordinates: 45°41'45.4"N 9°35'25.2"E). The entire zone falls within the Bergamo province.
4. Epidemiological situation
4.1. Aquaculture establishments registered and approved (registration and approval numbers, owner information, geolocation)
Inside the Zone, there are the following aquaculture establishments: <ul style="list-style-type: none"> • “Impianto Ittiogenico di Ornica”, ID 151BG037, located in Via Santuario, in the Ornica municipality (WGS84 coordinates: 45°59'25.6"N 9°34'32.5"E). Operator responsible: Mr. Ivan Cortinovis, Representative of the Fisherman’s Association of Bergamo +39 335 6813024 Reared species: Brown trout (<i>Salmo trutta</i>) and Marble trout (<i>Salmo marmoratus</i>). Activity: restocking Health status: Dependent compartment, Disease -free for VHS and IHN • “Impianto Ittiogenico di Valtorta”, ID 229BG055, located in Loc. Forno Nuovo, in the Valtorta municipality (WGS84 coordinates: 45°58'28.2"N 9°33'26.3"E). Operator responsible: Mr. Ivan Cortinovis, Representative of the Fisherman’s Association of

Bergamo +39 335 6813024

Reared species: Brown trout (*Salmo trutta*) and Marble trout (*Salmo marmoratus*).

Activity: restocking

Health status: Dependent compartment , Disease- free for VHS and IHN

- “Impianto Ittiogenico di Camerata Cornello”, ID 048BG050, located in Loc. Orbrembo, in the Camerata Cornello municipality (WGS84 coordinates: 45°53'55.9"N 9°39'20.7"E).
Operator responsible: Mr. Ivan Cortinovis, Representative of the Fisherman’s Association of Bergamo +39 335 6813024
Reared species: Brown trout (*Salmo trutta*)
Activity: restocking
Health status: Dependent compartment under eradication programme for VHS and IHN
- “Incubatoio Ittico di San Giovanni Bianco”, ID 188BG216, located in Torrente Enna, in the San Giovanni Bianco municipality (WGS84 coordinates: 45°52'38.9"N 9°38'39.3"E).
Operator responsible: Mr. Ivan Cortinovis, Representative of the Fisherman’s Association of Bergamo +39 335 6813024
Reared species: Brown trout (*Salmo trutta*)
Activity: restocking
Health status: Dependent compartment under eradication programme for VHS and IHN
- “Incubatoio Ittico di San Pellegrino Terme”, ID 190BG139, located in S.P. San Pellegrino, in the San Pellegrino Terme municipality (WGS84 coordinates: 45°49'56.8"N 9°39'48.5"E).
Operator responsible: Mr. Ivan Cortinovis, Representative of the Fisherman’s Association of Bergamo +39 335 6813024
Activity: restocking
Reared species: Brown trout (*Salmo trutta*) and Marble Trout (*Salmo marmoratus*)
Health status: Dependent compartment under eradication programme for VHS and IHN
- “A.S.D. Valle Imagna con Scuola di Pesca”, ID 252BG013, located in Area Feste, in the Sant’Omobono Terme municipality (WGS84 coordinates: 45°48'44.2"N 9°31'58.6"E).
Operator responsible: Mr. Guglielmo Piraino, Representative of the A.S.D. Valle Imagna with fishing school +39 345 216526
Reared species: Brown trout (*Salmo trutta*), Marble Trout (*Salmo marmoratus*) and Canine Barbel (*Barbus Caninus*)
Activity: restocking
Health status: Dependent compartment under eradication programme for VHS and IHN
- “Società Pesca sportiva la Brembillese”, ID 039BG157, located in Via Ca Preduzzo, in the Val Brembilla municipality (WGS84 45°49'25.7"N 9°35'35.4"E).
Operator responsible: Mr. Milesi Gianpietro, representative of Sport Fishing Company “La Brembillese”
Reared species: Brown Trout (*Salmo trutta*), Rainbow trout (*Oncorhynchus mykiss*)
Activity: put and take fishery
Health status: Not relevant, derogated from approval according to article 176, point 2 of EU Regulation 2016/429
- “Associazione dilettantistica Valle Imagna con scuola di pesca”, 192BG086, located in Area Feste, in the Sant’Omobono Terme municipality (WGS84 coordinates: 45°48'46.1"N 9°31'56.2"E).
Operator responsible: Mr. Guglielmo Piraino, Representative of the A.S.D. Valle Imagna with fishing school +39 345 216526

<p>Reared species: Rainbow trout (<i>Oncorhynchus mykiss</i>) Activity: put and take fishery Health status: Not relevant, derogated from approval according to article 176, point 2 of EU Regulation 2016/429</p> <ul style="list-style-type: none"> “Soc. Pescatori Sportivi Sannicola”, 007BG059, located in Ponte Rocca, in the Almenno San Salvatore municipality (WGS84 coordinates: 45°44'41.0"N 9°35'32.1"E). Reared species: Rainbow trout (<i>Oncorhynchus mykiss</i>) and Brown Trout (<i>Salmo trutta</i>) Activity: put and take fishery Health status: Not relevant, derogated from approval according to article 176, point 2 of EU Regulation 2016/429 “Lago Colombera Agro Lungo Brembo”, 006BG102, located in Via Derocca 2, in the Almenno San Bartolomeo municipality (WGS84 coordinates: 45°43'41.4"N 9°35'33.5"E). Operator responsible: Mr. Vinicio Roberti Reared species: Rainbow trout (<i>Oncorhynchus mykiss</i>) Activity: put and take fishery Health status: Not relevant, derogated from approval according to article 176, point 2 of EU Regulation 2016/429

4.2. Species farmed and Health status

Aquaculture establishments (ID code)	Farmed species	Health status*
151BG037	<i>Salmo trutta</i> , <i>Salmo marmoratus</i>	VHS/IHN Disease free
229BG055	<i>Salmo trutta</i> , <i>Salmo marmoratus</i>	VHS/IHN Disease free
048BG050	<i>Salmo trutta</i>	Eradication program
188BG216	<i>Salmo trutta</i>	Eradication program
190BG139	<i>Salmo trutta</i> , <i>Salmo marmoratus</i>	Eradication program
252BG013	<i>Salmo trutta</i> , <i>Salmo marmoratus</i> , <i>Barbus caninus</i>	Eradication program
039BG157	<i>Salmo trutta</i> , <i>Oncorhynchus mykiss</i>	Not relevant
192BG086	<i>Oncorhynchus mykiss</i>	Not relevant
007BG059	<i>Salmo trutta</i> , <i>Oncorhynchus mykiss</i>	Not relevant
006BG102	<i>Oncorhynchus mykiss</i>	Not relevant

*Infected, Unknown, Not infected, Eradication Programme ongoing, Disease-free

4.3 Epidemiological situation in wild aquatic animals

No mortality events were ever recorded in the area.

5. Disease control strategy of the eradication programme in accordance with Article 46 of Delegated Regulation (EU) 2020/689

5.1 Sampling and health visits

Health visits and laboratory examinations will be performed according to Table 1A as reported in Annex VI to CDR 2020/689, part II, Chapter 1, section II in the establishment 040BG058, 188BG216, 190BG139, 252BG013.

Establishments 151BG037 and 299BG055 are already declared officially VHS and IHN disease free and will perform health visit and sampling for maintenance of the health status according to Table 1C as reported in Annex VI to CDR 2020/689, part II, Chapter 1, section IV. Because of they are upstreams from the other plants and they introduce fishes or eggs only from VHS/IHN disease free establishments, they will be considered at low risk of introducing the diseases.

Sampling point	Health visit per year	Sampling per year	N° of fish per sampling
151BG037	1 every 3 years	1 every 3 years	30
229BG055	1 every 3 years	1 every 3 years	30 (ovarian fluid of broodstock)
048BG050	2	2	75
188BG216	2	2	75
190BG139	2	2	75
252BG013	2	2	75

5.2 Diagnostic methods

Diagnosis will be performed according to Delegated Regulation (EU) 2020/689, Annex VI, Part II, Chapter 1, Section 5 and with methods described by the EURL Fish Diagnostic Manual for VHS and IHN. The organs or tissue material sampled and examined will be the spleen, the head kidney, and heart. In case of broodstock, gonadic fluids will be sampled. In case of small fry, whole fish will be sampled. Samples from a maximum of 10 fish will be pooled

5.3 Biosecurity and risk mitigating measures

The trout farms situated in the Brembo River Zone will adopt good hygiene practices to control the introduction of VHS e IHN. In detail:

- The hatcheries are closed buildings and only authorized person can access
- There is no possibility for wild birds to catch fishes
- Dedicated equipment (boots, gloves, coverall) is used by personnel who access in the farms
- Disposable equipment is made available for visitors entering the farms
- Feed is stored in a dedicated local in the hatcheries
- Dead fish will be daily removed and disposed off
- There is no possibility for vehicles and trucks to enter in the farms or near them
- A program for rodent control will be in force in case of necessity
- It is impossible for wild fish to access the structures both in descent through water entrance and in ascent

5.4 Disease control measures

In case of VHS or IHN confirmed case, Competent Authority will adopt surveillance, prevention and control measures as prescribed by articles 58 - 65 of EU Delegated Regulation 2020/689

6. Eradication programme information

6.1 Description of the organisation, supervision and roles of the parties involved in the eradication programme

A.T.S. of Bergamo, as Local Competent Authority, will be in charge of health visits, sampling and supervision of the eradication programmes. IZSLER will be in charge of analysis required.

6.2 Estimated duration of the eradication programme

2 years

6.3 Intermediate targets of the eradication programme

No intermediate targets are defined. The eradication programme will last 2 year to complete the

surveillance scheme as reported to point 5.1. The final objective is to demonstrate the disease free status for VHS and IHN

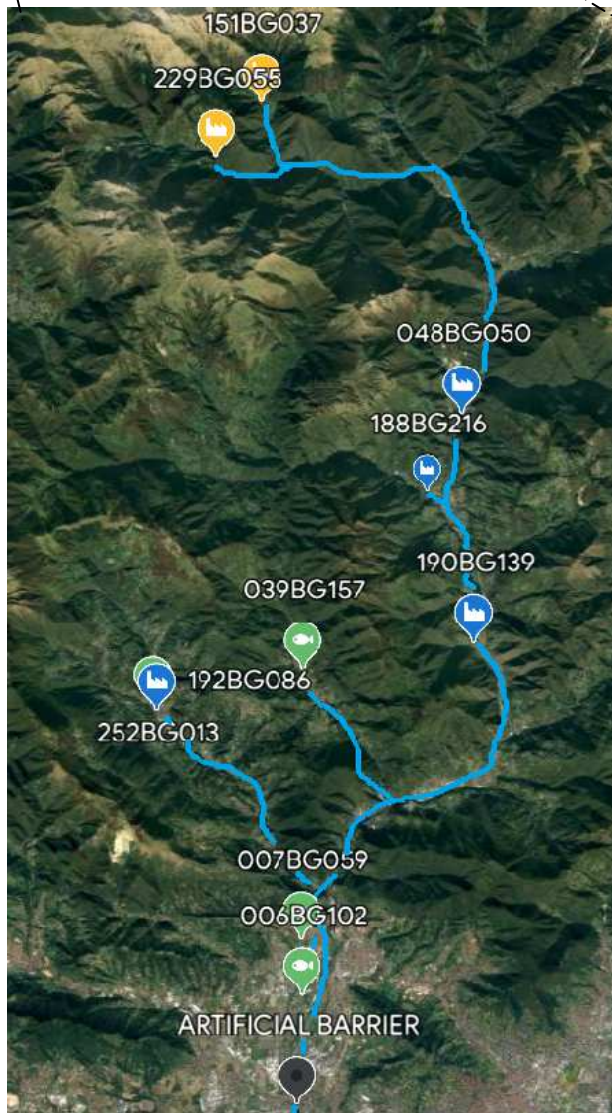
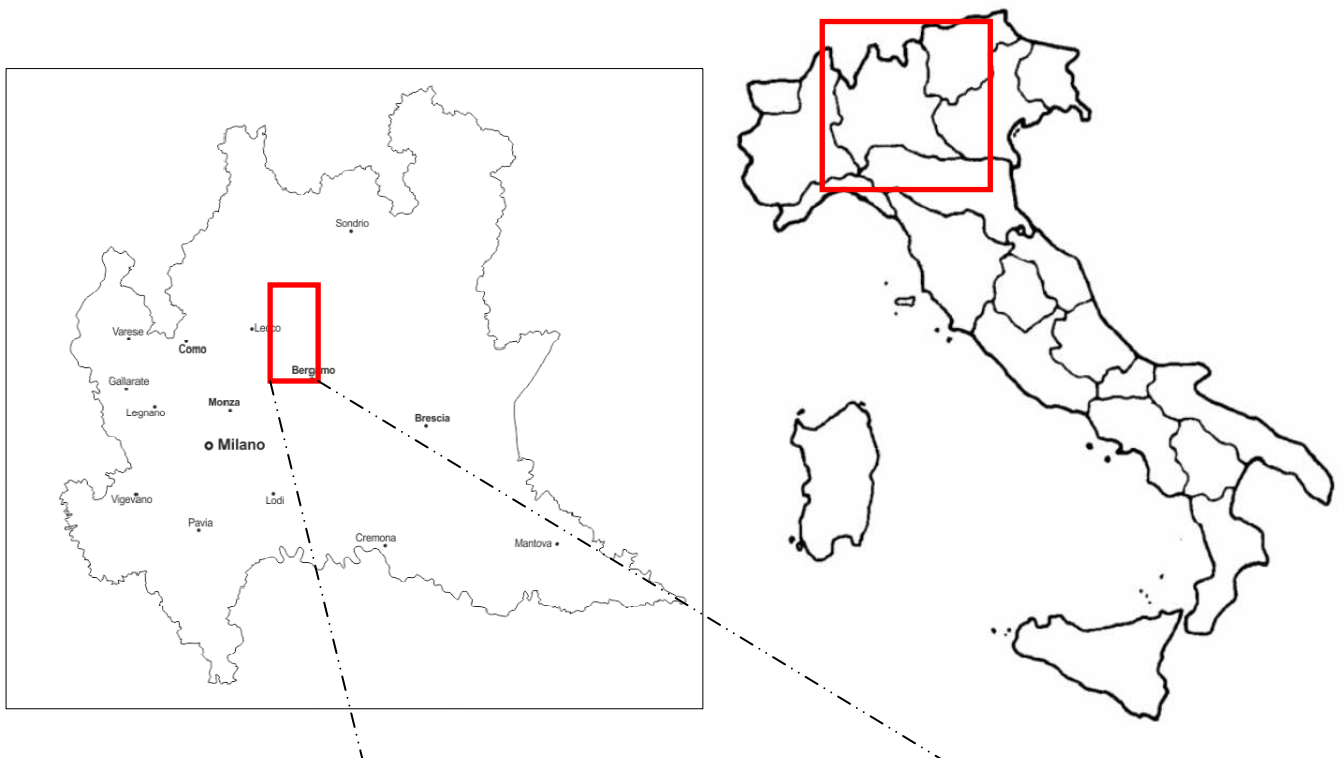
List of annexes

Provide all Annexes required and all relevant informations such as zone/compartment map, layout of the farms involved, sampling points and disease outbreaks location

Annex 1: Map of the Brembo River Zone

Annex 2: Lower limit of the Brembo River Zone

Annex 1: Map of the Brembo River Zone



Annex 2: Lower limit of the Brembo River Zone



Artificial barrier located in Ponte San Pietro which prevent the upstream movements of aquatic animals into the Brembo River Zone (WGS84 coordinates: 45°41'45.4"N 9°35'25.2"E)