

**THUA THIEN HUE PROVINCIAL FISHERIES ASSOCIATION
THE VINH HIEN LAGOON FISHERIES ASSOCIATION**



**A PROJECT ON LAGOON FISHING RIGHTS
ALLOCATION TO THE VINH HIEN LAGOON
FISHERIES ASSOCIATION**



Supported by IMOLA Project

Vinh Hien, January 2011

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PART 1: LEGAL STATUS AND CAPACITY OF THE VINH HIEN LAGOON FISHERIES ASSOCIATION

1.1 Organization of the Fisheries Association

The Vinh Hien Lagoon Fisheries Association (LFA) was established on 29 September 2006 by the Decision 12/QD on the establishment of the Vinh Hien Lagoon Fisheries Association issued by the Provincial Fisheries Association (Annex 1). The Charter of the Vinh Hien LFA was approved by the Commune People's Committee following the Decision 07/QD/UB, dated 27 February 2008 (Annex 2).

The Vinh Hien LFA covers mainly capture fisheries. The FA currently has 186 members (as of 20 December 2010) with the seven-member Executive Board (Annexes 3 and 4). The FA is divided into five sub-groups based on the operation and geographical area.

1.2 Activities of the FA to date

- Organization of the Congress on 6 January 2009
- Development of the regulation and lagoon management plan
- Election of the patrolling team that consists of 16 members including the EB, heads and vice-heads of sub-groups
- Lagoon patrolling and protection: The FA mobilizes fishermen in and outside the commune not to violate the FA regulations. In 2009, 7 violations were detected and handled because they did not follow the regulations. In particular, one case of using electric fishing was caught and the facilities were sent to the Vinh Hien CPC for handling
- Training and awareness raising: Organization of 2 training courses to improve the awareness for FA members on the lagoon management and 3 classes on the EB management capacity
- Organization of lagoon clean-up event and lagoon protection like the Earth Day on 22 April 2009
- Zoning for the seaweed conservation sub-zone
- The demarcation of the seaweed conservation area: 18 concrete poles were made and installed in the seaweed conservation area by Vinh Hien Lagoon and Aquaculture FAs
- Organization of traditional festivals like boat racing or fisheries prayer festivals, etc.
- Implementation of stake trap rearrangement (phase 1): the FA supported the commune in stake trap reallocation
- Implementation of stake trap rearrangement (phase 2): the FA supported the the commune and district authorities in organizing meetings and mobilization for combining households

1.3 Financial status of the FA

The financial status of Vinh Hien LFA (as of 15 December 2010) is shown in the following table:

No.	Items	Sub-total (VND)
	Total income	16,000,000
A	Of which: loan and interest	10,200,000
	Membership in 2010	3,800,000
B	Total expenditure (expenditure for meetings, stationaries, patrolling, visiting members and others)	700,000
C	Balance (A-B)	13,300,000

1.4 Establishment of the lagoon Co-Management Body

The Lagoon Co-Management (CMB) was established in Vinh Hien Commune on 18 January 2010 to function as the coordination body between the local FAs and the authorities. The detail of the CMB establishment is attached as Annex 5.

PART 2: STATUS OF WATER SURFACE EXPLOITATION IN THE FA AREA

The water surface of Tam Giang – Cau Hai Lagoon, Vinh Hien Commune has 1,526 ha. Three Fisheries Associations share the water surface for capture fisheries and aquaculture activities include Vinh Hien LFA, Vinh Hien Aquaculture FA and Vinh Fish Cage FA. Among these three FAs, Vinh Hien LFA manages a quite big area of 1,067ha.

Vinh Hien Lagoon is connected with the sea via the Tu Hien Inlet so the fisheries productivity is high. This fishing ground embraces a lot of fixed and mobile fishing gears.

- Stake trap: the total number of stake trap is 139 units. In line with the stake trap rearrangement policy of Phu Loc District and Thua Thien Hue Province, 72 stake traps have been removed; 65 units have been reallocated; and two units have not been reallocated. It is common that in the FA, two members share to undertake one stake trap
- *Lu*: 90 households are practicing *lu* with the average of around 100 units of *lu*
- Bamboo fish aggregating device: approximately 40 households are involved with the average of around 100 units/household
- Gill net: around 40 households are involved with the about 1,800 units and the estimated length is 90 km
- There are 25 households which are FA non-members
- Purse seine net involves around 10 households, mainly from other communes

The FA is still facing a lot of difficulties as listed below:

- The lagoon of Vinh Hien Commune is rich in aquatic resources; commune insiders and outsiders all together undertake the fishing activities so the conflicts often occur
- The fixed fishing gear rearrangement has reduced the pressure from stake trap operation. However, the quick expansion of *lu* in terms of household number, *lu* scale/household and too small net mesh size are reasons for the overexploitation
- The FA capacity is still limited
- Patrolling facilities are still lacked
- The fishing rights have not been allocated to the FA

The status map of capture fisheries and aquaculture (without zoning) is attached as Annex 6.

PART 3: GEOGRAPHICAL AREAS PROPOSED FOR FISHING RIGHTS ALLOCATION

3.1 Legal background

This lagoon fisheries co-management regulation under fishing rights was made pursuant to:

- the Decision 347/QD, dated 23 May 1992, by the Government Committee for Sciences on standards for technical classification of inland waterways
- the Circular 02/2006/TT-BTS, dated 20 March 2006, by the MOFI, guiding the implementation of the Government's Decree 59/2005/ND-CP of 4 May 2005, on production and business conditions of a number of fisheries trades
- the Circular 15/2009/TT-BNN, dated 17 March 2009, by the MARD on the lists of medicines, chemicals and antibiotics which are abandoned or restricted from use in fisheries production and business
- the Letter 1017/BNN-KTBVNL, dated 20 April 2009, by the MARD on enhancement of management of aquatic resources and environment
- the Decree 31/2010/ND-CP, dated 29 March 2010, by the Government on sanctioning of administrative violations in the fisheries domain
- the Circular 20/2010/TT-BNNPTNT, dated 2 April 2010, by the MARD on amendment and supplementation of some items of the Circular 15/2009/TT-BNN, dated 17 March 2009, by the MARD, issuing the list of medicines, chemicals and anti-biotic prohibited or restricted from use
- the Decision 3677/QD-UB, dated 25 October 2004, issued by the People's Committee of Thua Thien Hue Province on the approval of master plan of fisheries management in Thua Thien Hue Lagoon to 2010
- the Decision 4260/2005/QD-UBND, dated 19 December 2005, issued by the People's Committee of Thua Thien Hue Province; the Regulation of fisheries exploitation management in Thua Thien Hue Lagoon
- the Guideline 159/HD-STS, dated 26 April 2006, by the Department of Fisheries of Thua Thien Hue Province on the implementation of fisheries exploitation management in Thua Thien Hue Lagoon
- the letter 2011/UBND-NN, dated 8 May 2009, by Thua Thien Hue Province People's Committee on the enhancement of environmental and aquatic resources protection
- the Letter 4818/UBND-NN, dated 15 October 2009, by the People's Committee of Thua Thien Hue Province on the enhancement of inspection, monitoring and management of Chinese aerial trap (*lu*) in the lagoon
- the Decision 1135/QD-UBND, dated 17 June 2010, by Thua Thien Hue Provincial People's Committee on the plan of removal and rearrangement of stake traps in the lagoon of Phu Loc District in 2010
- the Plan 31/KH-UBND, dated 24 February 2010, by People's Committee of Phu Loc District on stake trap rearrangement in Cau Hai Lagoon, Phu Loc District, Thua Thien Hue Province
- The Plan 18/KH-BCD, dated 28 June 2010, by the Phu Loc DPC Stake trap rearrangement plan on the removal and rearrangement of stake trap in Cau Hai Lagoon, Phu Loc District (phase II), 2010

3.2 Geographic coordinates of the areas to be under fishing rights

This section provides exact coordinates and/or maps defining the area to be under fishing rights. Coordinates are provided in Longitude/Latitude in decimal degree under WGS84 unless otherwise noted. See the zoning map in Annex 7.

3.2.1 Area proposed for fishing rights allocation to the FA

The area proposed for fishing rights allocation to the Vinh Hien LFA is defined by the boundary line of Vinh Hien Commune, adjacent to Loc Binh, Loc Tri, Vinh Giang and Phu Loc Town (according to the Petition 364 by the Prime Minister), the boundary between the Vinh Hien LFA and Vinh Hien Fish Cage FA (that is the straight line connecting F4 and Loc Binh and Vinh Hien commune boundaries), and the natural shore line extending to Vinh Hien Inlet.

Sno.	Concrete pole code	Latitude	Longitude	Note
1	VG-VH	16.343888	107.877472	Marker 9
2	VH-VG-PL-LT	16.317083	107.855500	Marker 3
3	LB-VH-LT	16.310111	107.884166	Marker 4
4	LB-VH	16.330388	107.907944	Marker 8
5	F1	16.331137	107.907472	Two FA boundary marker
6	F2	16.334994	107.905041	Two FA boundary marker
7	F3	16.338850	107.902610	Two FA boundary marker
8	F4	16.344569	107.899041	F4 marker

Total water surface area proposed to fishing rights allocation to the Vinh Hien LFA is 1,067 ha with the following sub-zones:

Areas under Each Functional Sub-Zone for the Vinh Hien LFA

(As of 20 December 2010)

Sno.	Zone	Number of zone	Total area (ha)
1	Waterway*	--	103
2	Commune boundary buffer	--	52
3	Stake trap sub-zones	11	375
4	Common fishing sub-zone B	1	630
	TOTAL		1,067

* The waterway is not under the fishing rights.

3.2.2 Sub-zones for waterways and commune boundary buffers

- Waterways are defined based on the official coordinates provided by the Waterway Division of the Provincial Department of Transport. The width of national waterways is 120m and 100m for Cau Hai Lagoon. Those widths include both core areas (70m for the national routes and 50m for the local routes) and buffer areas for waterways (25m to each side from the core areas) in accordance with the national regulation (Decision 347/QD,

dated 23 May 1992). The waterway covers 130 ha and is under the management of the Department of Transport

- Commune boundaries are defined with the official coordinates provided by the DPC supplemented by official topographic map at the scale of 1:25,000. Uniform buffer of 150m (75m for one side) was applied throughout Cau Hai in accordance with the district regulation (Plan 88/KH-UBND, dated 31 May 2010). The area of the Town boundaries buffer is 92 ha

3.2.3 Sub-zones for stake traps

There are 11 stake trap sub-zones as in the attached map (see Annex 7). Without concrete poles, traps and ends of wings serve as markers for the row identification. The sub-zones include 20m buffer from stake traps (see the Figure below). The stake-trap sub-zones cover an area of 375 ha.

3.2.4 Common fishing sub-zone B

The common fishing sub-zone B is in principle all water surfaces that are not covered by any of the above functional sub-zones except the Common Fishing Sub-zone A, which is under the management of Vinh Hien Fish Cage FA. The common fishing sub-zone is for mobile fishing gears in accordance with the FA regulation. These are shown on the map (Annex 7) with the area of 640 ha.

PART 4: PROJECT ON FISHING RIGHTS ALLOCATION AND LAGOON RESOURCES PROTECTION

4.1 Regulation on lagoon resources management for each sub-zone

Each type of functional sub-zone is subject to a particular regulation defining what activities are permitted and in what way. The general principles in the Cau Hai Lagoon water are:

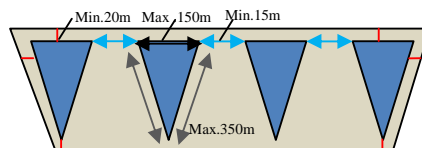
- All water surface users with fixed fishing gears shall be members of the Vinh Hien LFA with proper registration of their fishing gears and activities for supervision and management under the FA, and with full payment of required user fees
- Non-members of the FA are only allowed to conduct mobile fishing in designated areas upon the proper registration and full payment of user fees under the FA. They are obliged to follow strictly the regulation set forth by the FA
- Fishermen in the water surface of the FA shall not use unknown chemicals for washing *lu* and net without prior verification. Exotic chemicals shall not be released into the lagoon water

4.1.1 Sub-zones for waterways and commune boundary buffers

- No capture activities are allowed in waterway sub-zones. The waterway shall be kept free for the smooth operation of boats
- No fixed fishing gears are allowed in commune boundary buffers. This sub-zone shall be kept free of fixed structures to avoid any conflicts related to commune borders

4.1.2 Sub-zones for stake traps

- Stake trap sub-zones are exclusive areas for stake traps
- The maximum length of a stake trap wing shall be 350m
- The maximum width of a stake trap mouth shall be 150m
- A stake trap shall have a V shape, i.e., only two wings
- Two adjacent stake traps shall not share a common wing
- The minimum distance between two adjacent stake traps shall be 15m
- The minimum distance between two adjacent stake trap rows shall be 150m
- The minimum net mesh size shall be $2a = 18$ mm
- The minimum distance from each stake trap to the shore shall be 200m but 500m for the area near Tuy Van Mountain
- The total number of stake traps shall be 67 units
- Households that are practicing stake trap or have stake traps reallocated shall not undertake *lu* operation; households with stake traps removed that are supported to shift to another livelihood should not undertake *lu* operation
- All capture and aquaculture activities shall be at least 20m away from stake traps (because a stake trap is defined as a triangle formed by a trap and two wings – see the Figure below)



The number of stake traps that are allowed in each sub-zone is shown in the following table:

Row code	Number of stake traps that are reallocated
NS01*	4
NS02	8
NS03	7
NS04	2
NS05	3
NS06	3
NS07	7
NS08	8
NS09	9
NS10	9
NS11	7
TOTAL	67

*NS: stake trap sub-zone

4.1.3 Common fishing sub-zone B

- Common fishing sub-zone of the Vinh Hien LFA is open for mobile fishing
- FA members and non-members are allowed to undertake mobile fishing in this sub-zone and shall pay full user fee and comply strictly with the regulation of the FA
- FA members and non-members paying full user fee to Vinh Hien LFA are also allowed to operate in the common fishing sub-zone A of the Vinh Hien Fish Cage FA
- Though non-FA members are allowed to practice mobile fishing in the common fishing sub-zone, the priority shall be given to FA members when there is *lu* number reduction in the future
- The permitted mobile gears shall include *lu*, gill net (*lưới rê/bạc*), flashing (*soi*), line fishing (*câu*), and aerial trap (*dạy*)
- At the end of the year, the income will be reported to the co-management body and divided to the two FAs (Vinh Hien Lagoon and Fish Cage FAs) based on the number of registered entrants on the water surface of each FA

a. *Lu*

- The maximum number of *lu* units for those who practice only *lu* shall be 60 units/household¹
- The maximum number of *lu* units for those who practice *lu* and other gears (except stake traps) shall be 30 units/household²
- The maximum length of each *lu* unit shall be 10m
- The minimum mesh size of *lu* nets shall be 2a=18mm
- The size of the rectangular iron frame shall be 34cm (width) and 22cm (height)
- *Lu* shall not be installed in the location with water depth of less than 0.8m
- *Lu* shall have a noticing buoy in the day time and a light buoy in the night time for easy identification on the water

¹ This is the temporary stipulation and this will be in accordance with the Provincial or district regulations

² This is the temporary stipulation and this will be in accordance with the Provincial or district regulations

b. Gill net

- The maximum number of gill nets for those who only practice gill nets shall be 30 units/household
- The maximum number of gill nets for those who practice gill nets and other gears shall be 20 units/household
- The maximum length of each wing shall be 50m
- The minimum mesh size for gill nets shall be $2a=40\text{mm}$

c. Aerial trap

- The position shall not violate the waterway and commune boundary buffer
- One household shall own only 1 unit
- The diameter of one aerial trap shall not exceed 50m

4.2 Regulation on user fee system

a. User fee level for FA members

Gears	User fee (VND/year)	
	Member	Non-member
Stake trap Good income Normal income	300,000/unit 200,000/unit	Not allowed
Lu Those practicing only <i>lu</i> Those practicing other gears also	300,000/household 150,000/household	600,000/household 300,000/household
Gill net Those practicing only gill net Those practicing also other gears	120,000/household 60,000/household	240,000/household 120,000/household
Flashing	30,000/household	60,000/household
Line fishing		

Non FA members not paying user fee annually shall pay monthly fee of VND100,000/month.

- The above user fee is applied as per regulation by the Ministry of Finance, the Vinh Hien CPC delegates the Vinh Hien lagoon FA to directly collect the fee. The percentage of fee for the FA's operations will be decided by the agreement between the FA and the CPC
- Non-FA members shall pay fees directly to the FA before starting fishing operation in the water surface of the FA
- The FA will collect the user fee in quarter one every year
- The validity of fishing certificate under the user fee shall be one year from the day of the payment
- The financial report for each year shall be prepared by the FA EB including the detail of the income, expenditure, and remaining funds in the FA
- FA shall prepare and present the annual budget plan for the following year by the end of the year and get it approved by the FA members through a large meeting or congress

- The above fee system is subject to change every year according to the decision in the FA congress or agreed in the FA large meeting

4.3 Regulation on violation handling

- The FA as well as lagoon patrolling team has rights to write a minute and temporarily confiscate fishing gears and aquaculture facilities for fining
- The violating fishing gears and aquaculture facilities shall be temporarily kept by the FA or lagoon patrolling team without any prior notice to the owners
- The FA shall protect temporarily kept facilities authorized by the CPC; and violators shall pay maintenance fee upon re-reception

Handling of confiscated fishing gears and aquaculture facilities as well as level of violation fines shall be determined based on the following principles:

- If the violation falls under the Law, and if administrative sanctions are to be applied, the fine level shall follow the ones prescribed in the Decree 31/2010/ND-CP, stipulating the sanctioning of administrative violation in the aquatic resource domain
- Other violations shall be handled locally by the FA and CPC, based on the following principles:
 - i) For the first violation, the patrolling team will write the fining minute and give warning in front of the FA sub-group
 - ii) For the second violation, the patrolling team will write the fining minute and the violator shall pay VND50,000 to be added to the FA fund. *Lu* operators that violate shall pay VND100,000 to the FA fund
 - iii) For the third violation, the patrolling team will write the fining minute and send the case to Vinh Hien CPC for handling by law, and violating members will be excluded from membership
- These rules will be also applied to non-FA members. For the third violation, the fining minute will be written and the case will be sent to Vinh Hien CPC for handling by law, and violators will be excluded from practicing in the water surface of the FA
- The serious violation will be submitted to higher level for solution
- All violation cases shall be reported to CMB in its regular meetings

4.4 Regulation of the patrolling team

The patrolling team shall:

- Operate under the coordination of the FA Executive Board
- Follow the deployment of the patrolling team head when there is a patrolling request
- Ensure the secret, timeliness, and right place with necessary tools and equipment
- Wear the red armbands when doing the patrolling
- Comply with the regulations and charter of the FA and the State laws and policies
- Abide by the above-mentioned stipulations -- violations over three times will result in the exclusion from patrolling team membership with the dismissal minute sent to the CPC and the commune co-management body for the final decision and election of new members to the patrolling team

4.5 Regulation on conflict management

Any conflict within the capacity of the FA shall be solved by the FA in accordance with the charter and regulations of the FA. Any conflict that the FA considers to be beyond the existing capacity of the FA to solve shall be referred to the CPC for solution, or to higher authorities to be solved in accordance with the laws.

4.6 Coordination with other FA regulations

If there is any conflict or inconsistencies found between this regulation and the other existing FA regulations, this document supersedes the others.

4.7 Amendment to this regulation

Any necessary amendment to this regulation can be proposed by the FA, CPC, or any other relevant authorities. The amendment shall be made upon the agreement of three parties, namely the Vinh Hien LFA, Vinh Hien CPC, and Phu Loc DPC.

PART 5: ACTIVITY PLAN

This part provides the detail of the specific actions after the fishing rights is allocated to the FA. This section includes specific, time-bound activities including initiation (registration and fee collection), monitoring and enforcement (patrolling), conservation efforts, promotion activities, and others.

5.1 General activity plan and implementation timeframe

The expected duration of fishing rights in Vinh Hien is five years according to the Decision 3677/QD-UB. The estimated timing of each activity (described in detail in the following sections) is as follows:

Activity	2011	2012	2013	2014	2015	Implementers
User registration and fee collection	1-12	1-12	1-12	1-12	1-12	FA
Income calculation and sharing for mobile user fee under CMB	12	12	12	12	12	FAs, CPC
Stake trap rearrangement according to district regulation						FA, CPC and District DARD
Bamboo FAD removal from the stake trap sub-zones	1					FA
<i>Lu</i> registration	1-12					FA, CPC
Lagoon water surface patrolling	1-12	1-12	1-12	1-12	1-12	FA, CPC
Lagoon clean-up	2/yr	2/yr	2/yr	2/yr	2/yr	FA, CPC
Fingerling stocking into the lagoon (stock re-enhancement)	1/yr	1/yr	1/yr	1/yr	1/yr	FA, CPC
Promotional activities	1-12	1-12	1-12	1-12	1-12	FA, CPC
Additional benchmarking	1-12					FA
FA economic activities	1-12	1-12	1-12	1-12	1-12	FA
Renewal of fishing rights					11-12	FA, CPC and District DARD

5.2 User registration and fee collection

The users will be initially registered under the FA with the necessary user fee payment within three months from the fishing rights allocation although user registration is a continuous process being undertaken throughout a year. Upon the allocation of fishing rights, a large meeting will be organized to announce the user fee system to entire FA members for the promotion of registration and fee payment. The effort will be also made to inform non-members of the existence of and obligation for user registration and fee payment. Fee payers will be issued with fishing certificates.

5.3 Fishing gear rearrangement

Stake trap rearrangement is foreseen in 2010 according to the zoning plan. The total number of stake traps shall be reduced from current 67% (-52%). Bamboo FAD that are currently installed in the stake trap sub-zones shall be removed to the FAD planned sub-zone in accordance with the stake trap reduction plan of Phu Loc DPC. *Lu* will be reduced and controlled in line with the District and Province regulations.

5.4 Lagoon water surface patrolling

The Vinh Hien LFA will elect one patrolling team consisting of 16 members including commune police, EB members and FA members. The establishment of the patrolling team will be approved by Vinh Hien CPC in the coming time by the fishing rights allocation. Upon the allocation of fishing rights, the team will undertake the patrolling once per month on irregular basis with close collaboration with CPC. The patrolling schedule shall not be announced publicly to ensure the effectiveness of patrolling activities.

5.5 Conservation and protection activities

Upon allocation of the fishing rights, the FA will undertake biannual lagoon clean-up in January and June (solar calendar) with full participation of FA members and local schools to raise the awareness of members on the environmental protection.

The FA will also conduct fingerling stocking into the lagoon (fish stock re-enhancement) at least once a year in February (solar calendar) to maintain the fish population in the lagoon. Fish species to stock will be determined every year in consultation with relevant parties. Exotic species shall be avoided for this purpose.

In the future, the management of the conservation area will be stricter. The FA will find more activities to improve the efficiency of these functional sub-zones. Artificial reefs may be installed.

5.6 Promotional activities

The Vinh Hien LFA has been mobilizing people in the area and organizing a series of meetings and events to publicize the FA, its activities, and regulations. Upon the fishing rights allocation, the following efforts will be made to increase the awareness of the local fishers and resource users:

- Organization of FA large meetings and training sessions
- Annual traditional fishers' festival
- Biannual lagoon clean-up event
- Distribution of flyers for awareness raising for lagoon conservation and importance of FA
- Installation of sign boards and/or posters in highly-densed residential areas on banned chemicals, illegal fishing activities, protected species, harvestable fish size, and FA zoning and regulations
- Information dissemination through loud speakers and, if possible, through radio and/or TV

As fishing activities, particularly mobile ones, are inter-communal activities, announcement of fishing rights allocation and management rules to neighbouring communes will be a part of FA promotional activities.

5.7 Additional benchmarking

Stake trap sub-zones as specified in this document will be demarcated with concrete, wood or bamboo poles in the middle of 2011.

5.8 FA economic activities

Other economic activities will be planned with specific timelines for each activity to enhance the income of the FA for lagoon management, and increase the benefit to the FA members.

ANNEXES

1. PFA decision for FA establishment
2. FA charter
3. FA member list
4. FA EB member list
5. Decision on Co-Management Body establishment
6. Status Map of fishing gears and aquaculture
7. Zoning map of FA area (including functional sub-zones)

**On behalf of Vinh Hien Lagoon FA
Chairman**

**On behalf of Vinh Hien CPC
Chairman**

Tran Xuan Tam

**Technical supporting agency
IMOLA Project
Chief Technical Advisor**

Massimo Sarti



BẢN ĐỒ CẤP QUYỀN KHAI THÁC THỦY SẢN CHNC ĐÀM PHÁ VINH HIỀN VÀ CHNC NUÔI CÁ LÒNG VINH HIỀN XÃ VINH HIỀN



- Chú thích**
- Mức ranh giới xã 204
 - Mức phân vùng
 - Đầy sào
 - Vùng bảo vệ rong câu
 - Vùng khai thác chung loại A
 - Vùng khai thác chung loại B
 - Vùng khai thác chung loại C
 - Vùng nuôi cá lồng
 - Vùng nuôi nhuyễn thể
 - Vùng nuôi ốc hương
 - Đường giao thông
 - Đệm ranh giới xã 75m
 - Đệm ven bờ 200m
 - Áo nuôi thủy sản

CHNC Đầm Phá Vinh Hiền
Trần Xuân Tâm

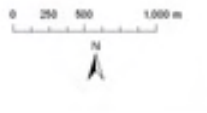
CHNC Nuôi Cá Lòng Vinh Hiền
Lê Thế

UBND Xã Vinh Hiền

Phòng NH&PTNT Huyện Phú Lộc

Phòng TH&MT Huyện Phú Lộc

Ủy Ban Nhân Dân Huyện Phú Lộc



BẢN ĐỒ CẤP QUYỀN KHAI THÁC THỦY SẢN CHNC ĐÀM PHÁ VINH HIỀN VÀ CHNC NUÔI CÁ LÒNG VINH HIỀN XÃ VINH HIỀN



- Chú thích**
- Mức ranh giới xã 204
 - Mức phân vùng
 - Đầy sào
 - Vùng bảo vệ rong câu
 - Vùng khai thác chung loại A
 - Vùng khai thác chung loại B
 - Vùng khai thác chung loại C
 - Vùng nuôi cá lồng
 - Vùng nuôi nhuyễn thể
 - Vùng nuôi ốc hương
 - Đường giao thông
 - Đệm ranh giới xã 75m
 - Đệm ven bờ 200m
 - Áo nuôi thủy sản

CHNC Đầm Phá Vinh Hiền
Trần Xuân Tâm

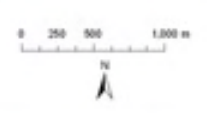
CHNC Nuôi Cá Lòng Vinh Hiền
Lê Thế

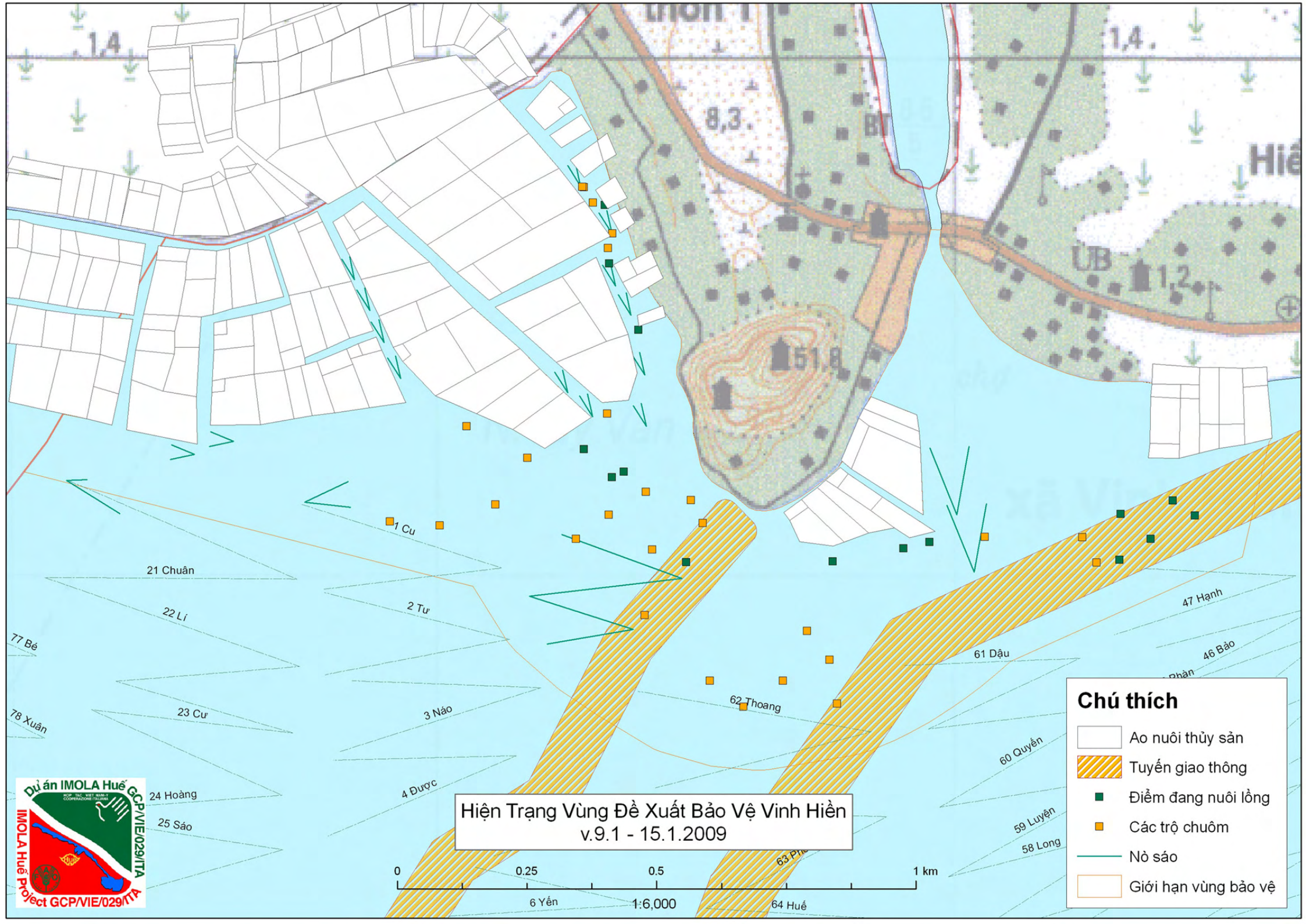
UBND Xã Vinh Hiền

Phòng NH&PTNT Huyện Phú Lộc

Phòng TH&MT Huyện Phú Lộc

Ủy Ban Nhân Dân Huyện Phú Lộc





Hiện Trạng Vùng Đề Xuất Bảo Vệ Vinh Hiền
v.9.1 - 15.1.2009

- Chú thích**
-  Ao nuôi thủy sản
 -  Tuyến giao thông
 -  Điểm đang nuôi lồng
 -  Các trờ chuôm
 -  Nò sáo
 -  Giới hạn vùng bảo vệ

