Waterford-East Lyme Shellfish Commission
Meeting Minutes
Thursday March 15, 2018
East Lyme Town Hall, 7:30 pm

Members present: Peter Harris, Tom Bowlen, Paul Spakowski, J. Patrick Kelly, Elizabeth Gelinas, Eric Kanter and Larry Tytla
Absent: Fred Grimsey
Guests: Attorney Robert Avena, Keith Neilson of Docko Inc., Attorney T. Hollister, Fred Wise, Terry Lineberger, John Hughes and Tim Londregan

1) The meeting was called to order at 7:30 pm and a quorum established.

2) The minutes of the February 15, 2018 meeting were reviewed. The minutes were accepted on a motion by Mr. Kelly, seconded by Mr. Spakowski, with one correction under Chief Comments changing "Area A and D to Area G", Mr. Kanter and Mr. Tytla abstained, with a vote of 5 in favor, motion passed.

   The minutes of the March 8, 2018 special meeting were reviewed. The minutes were accepted on a motion by Mr. Spakowski, seconded by Mr. Tytla, with one correction changing the time of adjournment to 7:10 pm, all in favor, motion passed.

   A five minute recess was called to obtain seating for additional guests.

3) The Treasurer's report for February was presented including the financials and bank reconcilement. The Treasurer's report was accepted on a motion by Mr. Spakowski, seconded by Mr. Bowlen, All in favor, motion passed. Mr. Kelly stated there is not income as Hillyer's has been closed. He Also noted a large invoice was received for the wardens office phone line from Frontier Communications. The account was to have been cancelled last September. Mr. Kelly has been in contact with Frontier's collection department to resolve the error. Attorney Avena agreed that WELSCO should hold off on payment at this time.

4) Chief Warden's Report-
   - All shellfishing areas are currently closed.
   - Shellfish beds will open Sat Mar 17 following a time based closure, no samples were taken as per agreement with DA/BA.
   - The warden's boat is currently out of the water.

5) Old Business-

   a) Mr. Harris and Attorney Avena completed a draft of revisions to the WELSCO 2002 Aquaculture policy. Members discussed procedures for length of time, renewal procedures, moving area 5 west to give more shore clearance, adding a chart, fees being assessed to perhaps cover WELSCO cost of public hearings/notices, payment in kind, negotiating special project enforcement and liability and mediation with leases. Attorney Avena explained parameters to approach with commissions activity; public hearing, boards, local, state and commissions approvals to include both Town's of Waterford and East Lyme. Mr. Harris and Attorney Avena will make some suggested changes and clean up language as discussed in order to present a final draft for the next WELSCO meeting. Mr. Harris will forward the

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EAST LYME TOWN CLERK

current draft to both Waterford and East Lyme Harbor Commissions for their input. Attorney Avena noted with the mediation hearing of May 1st upcoming a public hearing or public notice for revisions to the WELSCO 2002 Aquaculture Policy should not be scheduled.

6) New Business-

a) Keith Neilson of Docko Inc. reviewed the dock application for Mr. Barrepski of 11 Stanton Street, Waterford stating it was damaged, includes a boat shed and finger pier; seawall is intact and shed in fair condition. DEEP requested a new SDF permit; ice conditions warrant batter braced piles and tie off piles are necessary in rough waters. The area is narrow; crowding with recreational activity is concerning; and in closed area but there are shellfish and perhaps relocation should be considered before construction. Motion made by Mr. Kanter, seconded by Mr. Kelly to approve the dock application as there are no adverse effects on shellfishing; Ms. Gelinas, Mr. Spakowski and Mr. Harris opposed, with 4 in favor, motion passed.

b) Keith Neilson of Docko Inc. reviewed the dock application for Mr. Kempski of 25 Riverside Dr. Waterford noting the wall was destroyed and will be restored for stability, there is less shoreline activity in this location, no boat lift and they will be using green hard piles. Although in closed area, concerns for shellfish in the area were raised, an idea was discussed to removed shellfish temporarily and then return them after construction. There are concerns of over engineering with so many large docks in the river. After further discussion a motion was made by Mr. Kanter, seconded by Mr. Tytla to approve the dock application as there are no adverse effects on shellfishing, Mr. Spakowski, Ms. Gelinas and Mr. Harris opposed, with 4 in favor, motion passed.

c) Keith Neilson of Docko Inc. reviewed the dock application for Mr. M. DeRosa of 23 Shawandassee Rd. Waterford noting this will be in a closed area of Keeny Cove, will be 24 ft. long with 4 fixed piers. There was concern on the area being prolific with a potential for spawn and should be protected. After further discussion a motion was made by Mr. Kanter, seconded by Mr. Kelly to approve the application as there are no adverse effects on shellfishing, Mr. Tytla abstained, Ms. Gelinas, Mr. Spakowski and Mr. Harris opposed, with a tie vote of 3 to 3 the motion failed.

d) <u>Items D and E combined.</u> Mr. Harris asked Mr. Londregan of NBSF to review the highlights of his application to an aquaculture project in Area 2 and Area 5. He noted he modified his application to established areas away from the Mago Point area, no rebar usage in construction and distanced from public launch areas. Members discussed the 2 year timeframe and the footprint area in the proposal that totals 0.9 acres. Members agreed the gear/structures would remain within the footprint and cannot exceed the 10 acre limit. Mr. Harris labeled the application 001 and will forward the application to the Waterford and East Lyme Harbor Commission's for their comment. Moving forward if the application was approved there would need to be a public notice sent and public hearing along with proper protocol procedures before any official lease was granted.

Attorney Avena commented that the percent of acreage to lease and actual size needs clarification. There was further discussion on the maximum space being leased to one company or applicant.

7) Correspondence-

a) The New London Day will run the lawn care notice regarding fertilizer on March 25th Sunday edition to be circulated.

Motion by Mr. Spakowski, seconded by Mr. Tytla to add Item 8, all in favor, motion passed.

8) Ex Officio Comments-
   a) Mr. Cunningham noted the Town of East Lyme is breaking ground on the Pennsylvania Ave Park within the next 8 weeks.

9) Public Input–

Attorney Hollister- Representing the Niantic River Advocacy Coalition- He questioned a meeting of WELSCO, Waterford and East Lyme Harbor Management, Attorney Avena and the Niantic River Advocacy was proposed by Ms. Deshais at the DEEP mediation hearing but it had not been held. Concerned the NBSF aquaculture application dated with regard to the public knowledge and WELSCO's consideration of an application with a mediation hearing forthcoming. He stated the DEEP was not notified of the aquaculture application submitted by Mr. Londregan.

Attorney Avena- He met with WELSCO, Waterford and East Lyme Harbor representative's recently noting there will be a second meeting with all Chairs of the commissions before the mediation hearing of May 1, 2018. He noted applications can be submitted but it is premature.

Fred Wise- He requested a copy of the 15 month study noted in the DEEP public hearing notice that was sent out to area homeowners; stated the areas of Keeny Cove and Golden Spur waters are polluted and is against granting a project for a NBSF when NBSF already has one in East Lyme's Niantic Bay.

Terry Lineberger-She never received a copy of the 15 month study she requested a copy of at a prior WELSCO meeting; inquired on the exhaustive study; requested an explanation on the criteria for success and how it is measured.

John Hughes – Requested when the public would have access to the gear structure in the aquaculture application NBSF presented for review.

Tim Londregan- Noted that area 7 is a dead issue and he has made attempts to discuss his proposal.

10) The meeting was adjourned at 9:45 pm on a motion by Mr. Spakowski, seconded by Mr. Tytla.

Respectfully submitted,

Amy Tinker
Secretary

RE-DRAFT – 02/15/2018

"TO BE PRINTED ON WELSCO LETTERHEAD/LOGO"

Policy Statement on Aquaculture Projects in the Niantic River –July 18, 2002
Revised – March 2018

The Niantic River is a small shallow estuary with a restricted outlet to Long Island Sound. It is a mostly residential area and is heavily used for a variety of marine recreational activities. The Niantic River has few identified areas open for commercial aquaculture projects, which would not encroach on these activities. One of these activities is recreational shellfishing and it is the mission of the Waterford-East Lyme Shellfish Commission to sustain and enhance recreational shellfishing.

Therefore, the Waterford-East Lyme Shellfish Commission has deemed that any aquaculture project be on an experimental basis and then if successful, potentially a small commercial operation, limited in its size, scope and duration. Due to the restricted area available for aquaculture projects in the Niantic River, the Waterford-East Lyme Shellfish Commission shall favor experiments of a scientific nature or commercial operations limited in size to 2% of the total recreation shellfishing conditionally open area with emphasis on restoration of native shellfish. Any proposed commercial aquaculture operation will start as an experimental aquaculture project under a license agreement of less than two (2) calendar years. Aquaculture projects shall be defined as any operation requiring any structure to be placed in the river, such as buoys, floats, nets, cages, lines, anchors, etc. Bottom culture with no gear will also be considered Aquaculture and require written approval.

The Waterford-East Lyme Shellfish Commission will review applications for aquaculture projects on a case-by case basis and approval is based solely on the discretion of the Waterford-East Lyme Shellfish Commission. If approved, it is incumbent on the applicant to adhere to all Federal, State, Harbor Management, Local and other regulations that may be in effect, as to placement, size, construction, etc., so as not to infringe on any navigable water, private property, marine grasses or in any other way to create a hazard or lessen the use of the Niantic River. Projects shall be in areas identified by the Waterford-East Lyme Shellfish Commission so as not

to adversely affect areas open to recreational shellfishing, as determined by the Waterford-East Lyme Shellfish Commission. All applications shall show consistency with all applicable laws, including filing of public notice, and be subject to a public hearing before the commission.

The applicant must maintain the gear in good order. The applicant assumes all liability if any third party damage occurs. If for any reason the project is not maintained to the satisfaction of the Waterford-East Lyme Shellfish Commission, the Waterford-East Lyme Shellfish Commission reserves the right to have the applicant remove the structures prior to the projected duration, and under all such other terms contained in the less than two (2) year experimental agreement, and/or full license term, not to exceed five (5) years.

At the conclusion of the initial experiment, applicants will be required to present their results for consideration of a small-scale commercial license. During the project's life, the Waterford-East Lyme Shellfish Commission reserves the right to ask for a portion of shellfish produced to be distributed in the River in order to enhance the river's recreational shellfishing, pursuant to the terms of the less than two (2) year experimental agreement and longer term license with the respective Towns of East Lyme or Waterford.

If the applicant fails to abide by this agreement in any way, as determined by the Waterford-East Lyme Shellfish Commission, the Waterford-East Lyme Shellfish Commission reserves the right to terminate the experiment with the responsibility on the applicant to promptly remove the project and all structures from the Niantic River. Any renewals shall be solely at the discretion of the Waterford-East Lyme Shellfish Commission. Thereafter, the applicant must pursue a commercial license agreement with either East Lyme or Waterford, depending upon which side of the channel the aquaculture project is located. License terms must be negotiated directly with the Towns of East Lyme or Waterford in accordance with each Town's current policy with its town shellfish commissions. Approval of Town of Waterford licenses, in particular, shall proceed under the attached ordinance (Exhibit A) which requires all aquaculture licenses or leases to be approved by the Board of Selectmen and Representative Town Meeting prior to taking effect. The Town of East Lyme's Shellfish Commission approval procedure is also attached hereto as Exhibit B, to be followed on the East Lyme side of the river.

Location for Aquaculture Projects in the Niantic River

The Waterford-East Lyme Shellfish Commission (WELSCO) created and adopted a Policy Statement addressing aquaculture projects in the Niantic River. Using a nautical chart of the Niantic River, suggested areas in the Niantic River where aquaculture project might be carried on, are identified as locations 1 through 6 on the attached map. These locations are solely at the discretion of the WELSCO and may be expanded, reduced, deleted or otherwise modified to address any change in the Niantic River use, after public notice and hearing.

Each location is circumscribed by a set of GPS coordinates, as follows:

Location	Direction	Latitude	Longitude
#1	NW	41° 19.879	72° 10.944
	SW	41° 19.754	72° 11.038
	SE	41° 19.754	72° 11.012
	NE	41° 19.887	72° 10.892
#2	NW	41° 19.547	72° 11.000
	SW	41° 19.483	72° 11.000
Intermediate Point		41° 19.550	72° 10.881
	NE	41° 19.512	72° 10.739
	SE	41° 19.450	72° 10.739
#3		41° 19.764	72° 10.666
Use coordinate as a centerpoint with a 200 yard radius about point			
#4	NW	41°	72°

		20.249	10.592
Intermediate Point		41° 20.129	72° 10.610
	SW	41° 20.000	72° 10.600
	SE	41° 20.004	72° 10.590
Intermediate Point		41° 20.129	72° 10.560
	NE	41° 20.266	72° 10.565
#5	NW	41° 20.451	72° 10.687
	SW	41° 20.374	72° 10.687
	SE	41° 20.374	72° 10.575
	NE	41° 20.430	72° 10.563
#6	NW	41° 21.803	72° 11.567
	SW	41° 21.654	72° 11.542
	SE	41° 21.654	72° 11.490
	NE	41° 21.803	72° 11.549

Application No. _____

WATERFORD EAST LYME SHELLFISH COMMISSION

APPLICATION TO CONDUCT AQUACULTURE

Date of application: 3/15/2018 Total Acreage Requested: Area 2 & 5 (17.12ac)

Proposed Start Date: 5/1/2018 End Date: Permit Terms

Specie(s): X Oyster (*Crassostrea virginica*) Max # to be produced: 10million
☐ Quahog (*Mercearia mercenaria*) Max # to be produced: _____
☒ Scallop (*Argopecten irradians*) Max # to be produced: 2.5 million
☐ Other: _____ Max # to be produced: _____

Primary Gear Type (s): ☒ Bottom ☒ Suspended ☐ None
☐ Net ☐ Cage ☐ Other: _____

Contact Person: Timothy A. Londregan

Firm/Company Name: Niantic Bay Shellfish Farm LLC

Mailing Address: PO Box 106 Niantic CT 06357

Phone: (day) 860-739-6273 (evening) 860-739-6273

Fax: _____ email: timothy@nianticbayshellfishfarm.com

WELSCO Permit No. N/A Expiration Date: _____
CTDOH Permit No(s) N/A Expiration Date: _____
CTDEP Permit No(s) N/A Expiration Date: _____
USACE Permit No(s) N/A Expiration Date: _____

Vessel Registration: CT7290AD Name: Elizabeth-Marie

Make & Model: Privateer Roamer II Length & Color 21' White/Blue

1. Objective/Outcomes – Describe the business and operational objectives of your proposed aquaculture venture. What do you intend to accomplish over the time frame of this venture from both business and operational perspectives. What operational phasing (e.g., year by year expansion, etc.) will you undergo, if any, to achieve your goals. Outline this phasing in a table, showing increases in acres cultivated and # of shellfish cultured from start up to maximum production. Reference answers to questions #3 & #4 of this application, if appropriate, to show expansion/phasing on site and in gear over time. Attach a copy of your business plan if available.

Niantic Bay Shellfish Farm is a small aquaculture business primarily involved with the rearing of shellfish. Furthermore, the founder, Tim Londregan, is a career aquaculturist and intends to continue to run NBSF in Niantic waters until it can be handed down into the family or otherwise. Operational phasing for gear would be 25% of the currently proposed gear/gear area over a four year period.

Year 1	Year 2	Year 3	Year 4
1.6 acres	3.22 acres	4.82 acres	6.43 acres
25% of gear units	50% of gear units	75% of gear units	100% of gear units
625K Scallops	1.25m Scallops	1.875m Scallops	2.5m Scallops
2.5m Oysters	5m Oysters	7.5m Oysters	10m Oysters

NBSF intends to grow a sustainable local business that not only employs, and pays the bills, but also one that gives back to the community. The options laid before WELSCO offer the Towns many unique advantages otherwise not available. 1) NBSF wishes to start a resident based scallop program. 2) The shellfish placed by NBSF will benefit the ecosystem on several levels, cleaner water, more spat, additional habitat. 3) NBSF is also open to working with other local agencies/groups on projects such as reef restoration and living shoreline projects. 4) We envision NBSF being a poster child for Niantic and believe we will bring positive attention/publicity to the area thus increasing Niantic's notoriety. These are but a few notable goals we intend to accomplish over time.

2. Culture/Growout Grounds – Describe the location and condition of in-water resources such as eelgrass, natural clam beds, docks, existing marine species, boating fairways, frequently used recreational fishing grounds, etc., in the proposed aquaculture area. Please state that no eelgrass is present and, if applicable, the nearest eelgrass to the proposed location.

Area 2:

Based on test digs conducted by WELSCO and information gathered by the Chief warden, the general consensus of WELSCO, is that the area being considered does not have a valuable recreational set of shellfish when compared to the productive areas of the river. Due to the proximity of the State owned land, 156, there are no private docks or other structures within the considered gear area. The Town of East Lyme does operate a kayak dock in Cini Park which is well west of the proposed gear site, about 630'. The Northeastern corner of the gear area is 125' from the federal channel. The Northwest corner of the gear area is 340' from the closest marina/fairway. The Southern side of the gear area is at a minimum 125' from Route 156. Currently, this area is not a popular finfishing area, nor a hunting area. The current popular finfish areas area located along/in the federal channel and near the bridges. Eelgrass in the River has fluctuated greatly over the years. Since 1987 area 2 has been mostly free of any eelgrass or at/less than 10%. 2005 and 2006 saw a resurgence of eelgrass in this area, it then died off over the years. By 2010, it was insignificant. There has not been any grass in area 2 in the last few years, there was no eelgrass in the summer of 2017. The closest eelgrass from the NW corner of WELSCO 2 is about 2700' to the North along the shores of Camp Niantic. There is some SAV but it is not protected. Millstone completes trawls in this area and their catch reports can be consulted. See Attachment B.

Area 5:

This area is located well outside of traditional recreational shellfishing and finfishing areas. However, this is somewhat close to the center line of the River where waterfowl hunting occurs. Yet it is still outside of the common anchoring areas for hunting skiffs. Furthermore, hunting commonly occurs before or near sunrise. Typically common oystering laws require all work to being after sunrise. The closest waterward point of any dock to the East of Area 5 is about 775'. This area does not infringe on any known fairways, docks, or moorings. Preliminary consultation with DEEP boating safety has not identified issues with this area in regards to boating. This area is well over 1000' from the federal channel (appx. 1195'). This area is located in the southern most area where recreational boaters would possibly ski or tube. Such recreational activities typically do not occur to the south as the river narrows and become shallower. Consequently, the area to the North is still open to recreational sports as is the North fork past Sandy Point. This has been a designated aquaculture area since 2002. Eelgrass in the River has fluctuated greatly over the years. Since 1987 area 5 has been mostly free of any eelgrass or at less than 10%. 2005 and 2006 saw a resurgence of eelgrass in this area, it then died off over the years. By 2011, it was insignificant. There has not been any grass in area 5 in the

last few years, there was no eelgrass in the summer of 2017. Currently, the closest eelgrass from the Western boundary of WELSCO 5 is about 350'.

3. Growout & Harvest Methods – Describe, giving specific details, the methods and activities that will occur and/or be used to carry out culturing and harvesting operations on the aquaculture site. Reference answers to questions #1 & #4 of this application, if appropriate, to show how culture and harvest methods change over time. Please attach any maps or other information that you feel will assist in better understanding your proposed operations.

Over time the operation will change slightly as we improve methodology and management practices based off of ever changing environmental conditions. However, the essences of these methods and activities will not change significantly so far as we can predict.

In general, the spring into fall is the growing season, when water temperature is above 50. We plant juveniles in the spring, grow them in the summer, sort them in the fall, sell some of the sorted juveniles in the fall while we over-winter the remainder to be sold next year early in the spring. All while we are handling our juveniles, we are shipping our mature market product year round.

Shipping involves removing the shellfish planted on bottom by hand or dredge, or removing shellfish and their accompanying structure from the water. All shellfish are cleaned packed and put on ice, they are then distributed. All gear is then washed, repaired, and stored/redeployed with smaller non-market shellfish. Cleaning will occur on NBSF vessel or at a land based facility. Typically we ship on Tuesday and Wednesday. The proper approved methods used for cleaning and shipping are carefully detailed in the Shellfish Sanitation Manual which is available to the public.

Planting of seed will occur from April until July. Initially, the first group of oyster seed will be placed in the Sepa baskets. The next group will move into the float gear primarily in Area 2. Then into the suspended gear in area 5. The cages in Area 2 are primarily designated for use with juvenile scallops. As the product grows in size during the growing month each gear unit will be handled, dried, and shaken. Cages are air dried, bags are flipped, nets are air dried, and Sepa baskets are air dried, we do not power wash gear unless necessary. This will occur on site of ar a NBSF maintained vessel/facility. Once the fall arrives, the larger seed will be graded first and transferred into NBSF grow-out gear headed for the Bay. Remaining seed will either be planted on bottom in Area 2 or it will be stored at high densities in gear on bottom in the deeper portions of Area 2 as well as Area 5. The majority of the scallop seed will be moved north the Area 5 in the late fall clearing out room in Area 2. Remaining seed which is not being sown in the public beds or grown by NBSF to maturity will be sold to other New England farms, hopefully CT farms. Come spring, the over-wintered seed will be sold, product once again will be shifted to the shallower waters/moved then moved to the Bay. Then the process resets and restarts. With aquaculture one must be a little fluid with their planning as one never knows what exact environmental issues or weather patterns each year will bring. Many decisions are made

on temperature, air and water, as well as food density, growth rates, fouling, predator presence along with many other factors.

AREA 2

This site will primarily be used to rear bay scallops and eastern oysters. We intend to grow out all bay scallops within the river while some of our maturing oysters will be moved out to our bay lease (EL-3) while the others stay put and planted on bottom closer to shore along 156 where the bottom is firm sand, these on bottom oysters will be relayed prior to water temperatures dipping below 50 to bottom cages in open water. The first function of this site is the growth of seed for other local farmers. Due to NBSF's Wilcox operation we are planning on producing local seed for local farms. Ideally this seed will be placed in gear on WELSCO 2 during April/May/June. Seed, oysters and scallops, will be graded late August and September. We intend to sell larger seed in the fall while overwintering the smaller seed. First year production target of seed is 500,000 scallops and 2,000,000 oysters (lower than the 25% cap, designed as a safety net). Over the course of 5 years we intend to increase these numbers as the market demands. It is unlikely we will produce more than 10,000,000 oyster seed and 2.5 million scallop seed within 5 years, but that is our goal. First year we would like to try the Sepa Baskets as well as vexar bags and trays to round out the options. Sepa Baskets 4 double lines (paired lines 1' apart, 2.5' feet between doubles, 8' wide system when accounting for basket width) total of 400 baskets, 25 sections per 250' line with 26 (10 feet apart) 1" pvc pipes, multiple positions for the suspended line (lower position for growth, higher for drying) 5' helix anchor centered between each paired line 10' from last pvc pipe located on western section of gear area (first 100' W to E dedicated to possible expansion of this gear type possible total of 4 double lines or 16 individual lines or 1600 individual baskets). Floating bags 250' long trawls anchored at either end via 5' helix anchor with two more splitting the difference, 160 bags per line, about 20' between lines 20 lines. Bags beginning at 100' from east to 475' headed west. Option to sink bags during winter months (Late November-March). Remaining 102' of gear area will be dedicated to unbuoyed double stack trays which are 3'x4'x17". A total of 8 columns of 50 trays, 10 ' between columns, 400 trays. We plan on 4 phases of development, each year adding 25% of max capacity. From position N41 19 30 W72 10 55 headed due east, Millstone conducts trawls. We have modified our layout to not hinder their sampling procedures (shortened long-lines from 300' to 250'). Verizon does not have cables in this area, no utilities have identified any known buried infrastructure in this area.

AREA 5

This site will primarily be used to rear bay scallops and eastern oysters. We intend to grow out all bay scallops within the river while some of our maturing oysters will be moved out to our bay lease (EL-3). From the West most side of the gear area, there will be two 290' long lines, running N and S, used to suspend lantern nets, these are two experimental lines to compare growth rates. 15' between lines, suspended by standard black lobster buoys 2 per net, 100 nets per line, each end 5' helix anchor. Third line, also suspended via larger poly balls, used with

Sepa baskets interlocked. Additional area can support 8 more floating lines. First 163' of site designated for development of float gear. The remaining 200 feet is designated for sub-tidal apartment style cages fitted for vexar bags (3'x3'x5') as well as trays (3'x4'x17") individually buoyed. First year 200 apartment style and 200 trays. Total possible, in this permit, trays/apartment style limited to less than 1/3 of total area or 1000 apartments or 1300 trays. Furthering permits required to apply for build out as similar with NBSF EL-3 lease 25% available per year.

April- Plant seed, screening seed (processing), Shipping, Hatchery
May- Plant seed, shellfish maintenance, Shipping, Hatchery
June- Plant seed, shellfish maintenance, Shipping, Hatchery
July- last of seed planted/held, shellfish maintenance, Shipping
August- shellfish maintenance, screening seed (processing), Shipping
September- shellfish maintenance, screening seed (processing), Shipping
October-shellfish maintenance, screening seed (processing), Shipping
November- gear maintenance, Shipping
December- gear maintenance, Shipping, Hatchery
January- gear maintenance, Shipping, Hatchery
February- gear maintenance, Shipping, Hatchery
March, screening seed (processing), Shipping, Hatchery

4. Equipment Used – Describe, giving specific details, the type, and numbers of each type, of equipment that will be used, as well as how it will be employed, to conduct the methodologies described above. Include a schematic showing the gear as it would be when deployed in the water. Provide a calculation of maximum number of shellfish, by species, expected on site when operations are functioning at maximum production, referencing your answer to question #1 of this application, if appropriate. Attach any appropriate brochures or sales literature that will assist in better understanding the gear to be used in your operations.

The number of gear units and sizes are given in answer 3. How the gear will be deployed was also described above. Please see attachments for further details on locations, the attachments are listed below. The shellfish number calculations are the same as the ones given in the table provided in answer 1. Bottom planting is not included in the chart as the primary use of the gear areas are for exactly that gear. The additional lease areas if used for bottom planting which do not require any further permits could top 1 million oysters per acre not being utilized for gear. Given the circumstances and ecology of the area NBSF is not committing to bottom planting but it is a possible option being considered to a certain degree.

Attachment A: Gear literature
Attachment B: Eelgrass surveys
Attachment C: Gear Deployment on Area 5/Gear Profile
Attachment D: Gear Deployment on Area 2/Gear Profile

TOWN OF EAST LYME
Office of the Town Clerk

Certificate of Shellfish Grounds

Pursuant to Connecticut General Statute 26-242, I hereby certify that I have examined all records and maps in my custody pertaining to shellfish leases and grants. Based on such examination, to the best of my knowledge, information and belief I further certify that the following ground has not been previously licensed, leased or granted for private commercial shellfish activities and that such ground is within the limits allotted by law for designation by the Waterford East Lyme Shellfish Commission.

Applicant Name: Timothy A. Londregan III

Firm/Company Name: Niantic Bay Shellfish Farm

Description of the Plot (Include GPS and/or GIS coordinates):

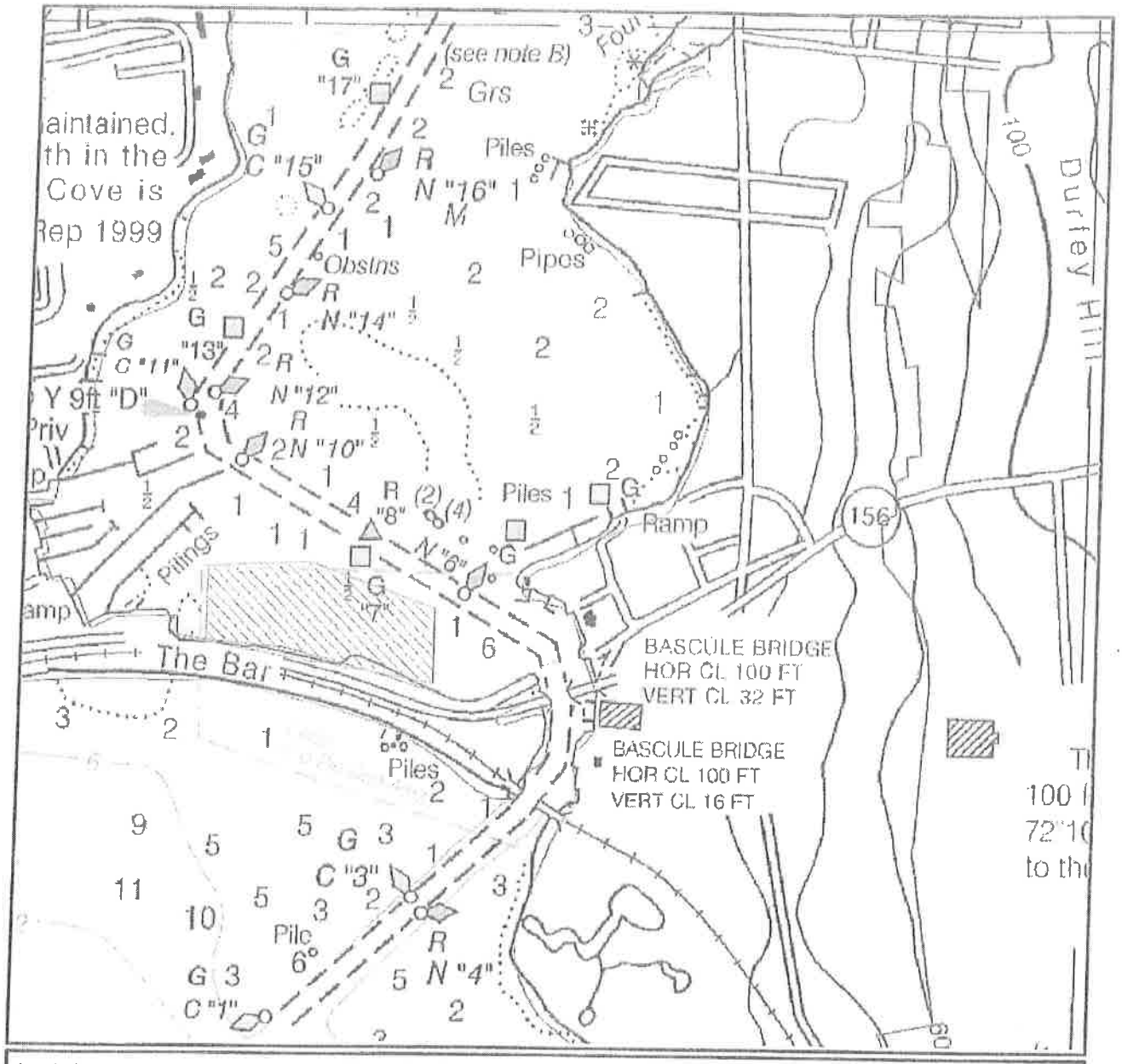
See supplied map.

3/16/18
Date

East Lyme Town Clerk

(00343196.1)

WELSCO 2



Area 1 = Lease Area	Area 1 = CT State Plane NAD83
Area = ~12.07 Acres	Classification = Conditionally Approved
Long: 72° 11.000' , Lat: 41° 19.547'	x=1155643.552693, y=679939.792670
Long: 72° 11.000' , Lat: 41° 19.483'	x=1155646.101408, y=679551.143682
Long: 72° 10.739' , Lat: 41° 19.450'	x=1156842.221072, y=679358.612036
Long: 72° 10.739' , Lat: 41° 19.512'	x=1156839.733051, y=679735.115595
Long: 72° 10.881' , Lat: 41° 19.550'	x=1156188.177389, y=679961.589213

N W E S

Legend
- Lease Area
- Gear Area

Naintic River
East Lyme CT

Figure 1
Name - NBSF
Lease ID - WELSCO 2
Federal Channel(s) -
Closest Landmark -

This map is for information only and its utilization and verification shall be the sole responsibility of the user. No warranty, expressed or implied, is made by the State of CT as to the accuracy or completeness of this map nor shall the fact of distribution

http://clear3.grove.ad.uconn.edu/viewers/shellfish/

Printed: Dec 17, 2017

Created with the Aquaculture Mapping Atlas

Area 1 = Gear Area	Area 1 = CT State Plane NAD83	Polygon 2 = Lease Area	Area 2 = CT State Plane NAD83
Area = 3.97 Acres	Classification = Conditionally Approved	Area = -12.07 Acres	Classification = Conditionally Approved
Long: 72° 10' 49.3" , Lat: 41° 19' 32"	x=1156460.720244, y=679859.094307	Long: 72° 11.000' , Lat: 41° 19.547'	x=1155643.552693, y=679939.792670
Long: 72° 10' 49.9" , Lat: 41° 19' 29.1"	x=1156416.877574, y=679565.281746	Long: 72° 11.000' , Lat: 41° 19.483'	x=1155646.101408, y=679551.143682
Long: 72° 10' 57.5" , Lat: 41° 19' 29.9"	x=1155836.496718, y=679642.435954	Long: 72° 10.739' , Lat: 41° 19.450'	x=1156842.221072, y=679358.612036
Long: 72° 10' 56.8" , Lat: 41° 19' 32.8"	x=1155887.975885, y=679936.297559	Long: 72° 10.739' , Lat: 41° 19.512'	x=1156839.733051, y=679735.115595
		Long: 72° 10.881' , Lat: 41° 19.550'	x=1156188.177389, y=679981.589213

N W E S

Legend

Lease Area

Gear Area

Niantic River

East Lyme CT

Figure 1

Name - NBSF

Lease ID - WELSCO 2

Federal Channel(s) - 123'

Closest Landmark - 81

TOWN OF WATERFORD
Office of the Town Clerk

Certificate of Shellfish Grounds

Pursuant to Connecticut General Statute 26-242, I hereby certify that I have examined all records and maps in my custody pertaining to shellfish leases and grants. Based on such examination, to the best of my knowledge, information and belief I further certify that the following ground has not been previously licensed, leased or granted for private commercial shellfish activities and that such ground is within the limits allotted by law for designation by the Waterford East Lyme Shellfish Commission.

Applicant Name: Timothy Londregan III

Firm/Company Name: Niantic Bay Shellfish Farm

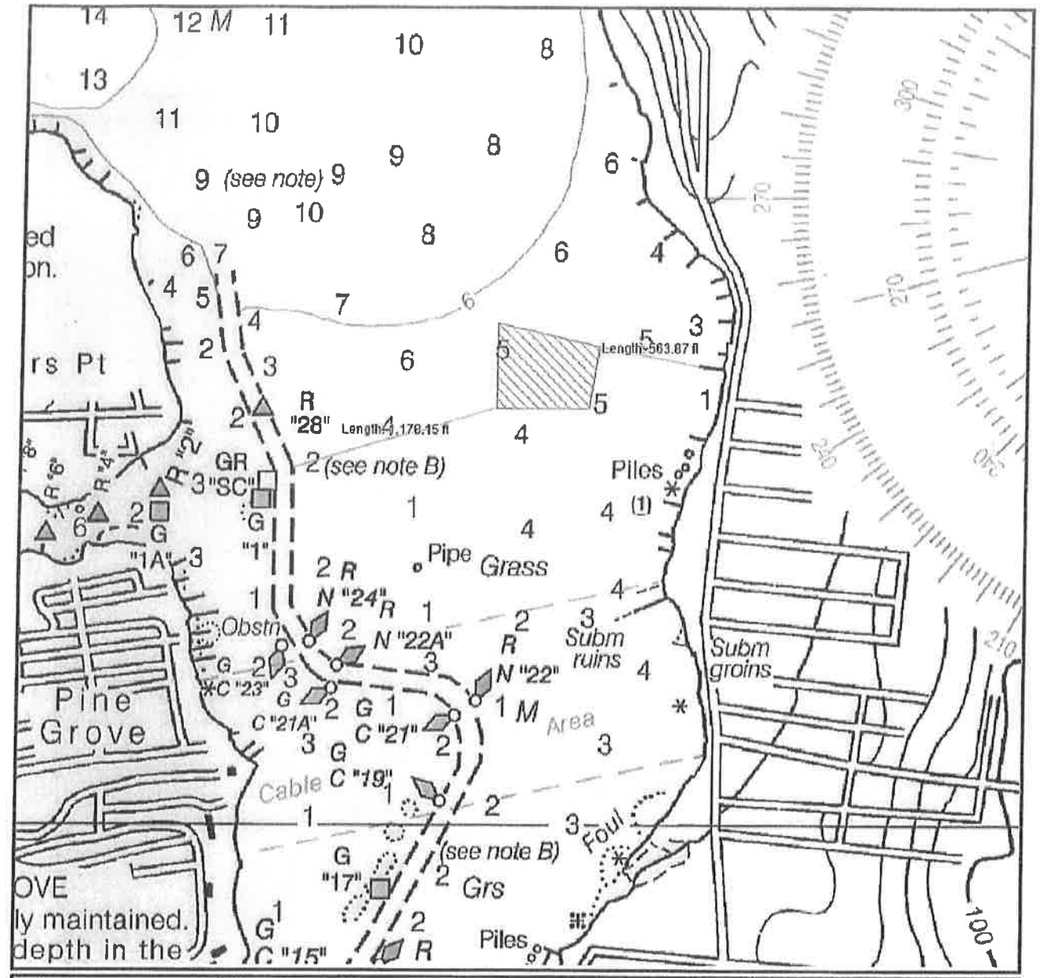
Description of the Plot (Include GPS and/or GIS coordinates):

WELSCO 5

3/2/18
Date

Waterford Town Clerk

WELSCO 5



Area 1 = Lease Area	**Area 1 = CT State Plane NAD83**
Area = -5.05 Acres	Classification = Conditionally Approved
Long: 72° 10.687' , Lat: 41° 20.451'	x=1157040.036059, y=685438.901923
Long: 72° 10.687' , Lat: 41° 20.374'	x=1157043.130716, y=684971.308002
Long: 72° 10.575' , Lat: 41° 20.374'	x=1157555.722812, y=684974.706005
Long: 72° 10.563' , Lat: 41° 20.430'	x=1157608.384597, y=685315.138979

N W E S

UCONN CLEAR

Legend

Lease Area

Gear Area

Nalnic River
Waterford CT

Figure 1
Name - NBSF
Lease ID - WELSCO 5
Federal Channel(s) - 1,178'
Closest Landmark - 534'

http://clear3.grove.ad.uconn.edu/viewers/shellfish/

Printed: Dec 17, 2017

Area 1 = Gear Area	Area 1 = CT State Plane NAD83	Polygon 2 = Lease Area	Area 2 = CT State Plane NAD83
Area = 2.46 Acres	Classification = Conditionally Approved	Area = -5.05 Acres	Classification = Conditionally Approved
Long: 72° 10' 41.2" , Lat: 41° 20' 25.4"	x=1157042.940153, y=685267.827779	Long: 72° 10.687' , Lat: 41° 20.451'	x=1157040.036059, y=685438.901923
Long: 72° 10' 36.4" , Lat: 41° 20' 25.4"	x=1157409.072678, y=685270.253774	Long: 72° 10.687' , Lat: 41° 20.374'	x=1157043.130716, y=684971.308002
Long: 72° 10' 36.43" , Lat: 41° 20' 22.5"	x=1157408.731392, y=684976.727353	Long: 72° 10.575' , Lat: 41° 20.374'	x=1157555.722812, y=684974.706005
Long: 72° 10' 41.2" , Lat: 41° 20' 22.5"	x=1157044.882695, y=684974.316508	Long: 72° 10.563' , Lat: 41° 20.430'	x=1157608.384597, y=685315.138979

N W E S

UCONN CLEAR

Legend

Lease Area

Gear Area

Niantic River

Waterford CT

Figure 1

Name - NBSF

Lease ID - WELSCO 5

Federal Channel(s) -

Closest Landmark - 725

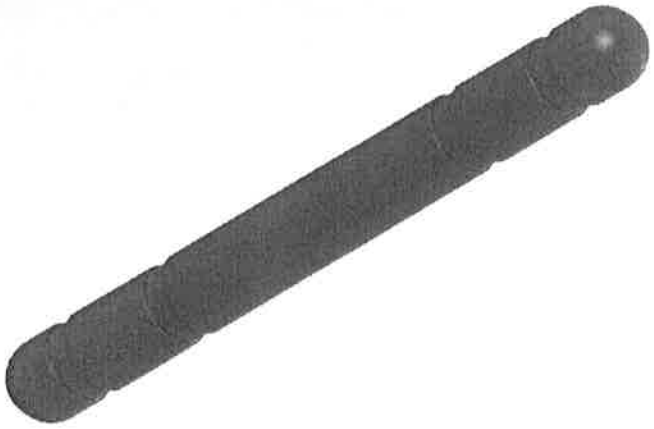
Printed: Jan 24, 2018

Attachment A:

Gear Literature

Go Deep
Shellfish Aqua

GD-OF-04-S
OYSTER BAG FLOAT



FEATURES

- Manufactured from Industrial grade plastic
- 100% virgin material
- Impact-resistant robust construction
- Highest UV package
- Black as a standard color
- Ribs aid in bag attachment and provide structural strength

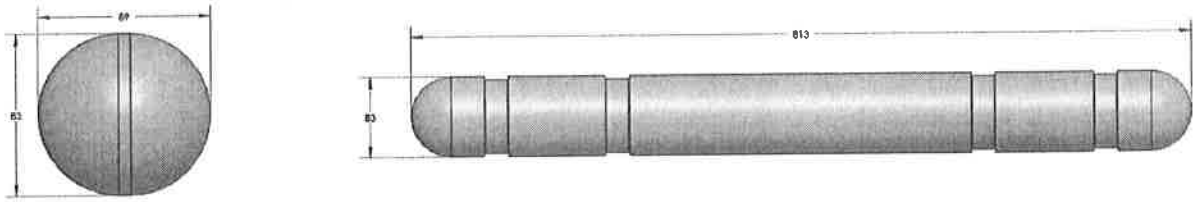
BENEFITS

- Low cost
- Easy to clean and maintain
- Resistant to sea growth
- Environmentally friendly
- 100% recyclable at end-of-life
- Consistent buoyancy

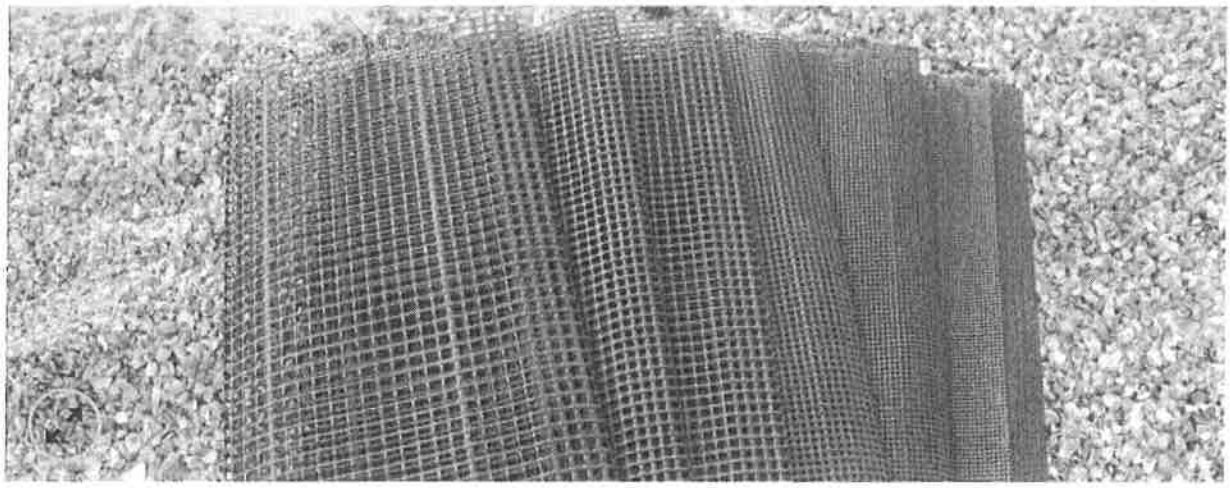
SPECIFICATIONS

Length	81.3 cm
Width	8.9 cm
Height	8.3 cm
Net Buoyancy	4.1 kg
Construction	Virgin UV stabilized Industrial grade plastic
Standard Colors	Black
Warranty	1 year full replacement for manufacturing defects

GENERAL ARRANGEMENT



CONTACT US TO ORDER: | TOLL FREE (NORTH AMERICA): 1-877-446-3337 | INTERNATIONAL: 1-506-633-7850 | EMAIL: INFO@GODEEPAQUACULTURE.COM | WEB: WWW.GODEEPAQUACULTURE.COM



Intermas Oyster Bags, Square Mesh

$150.00

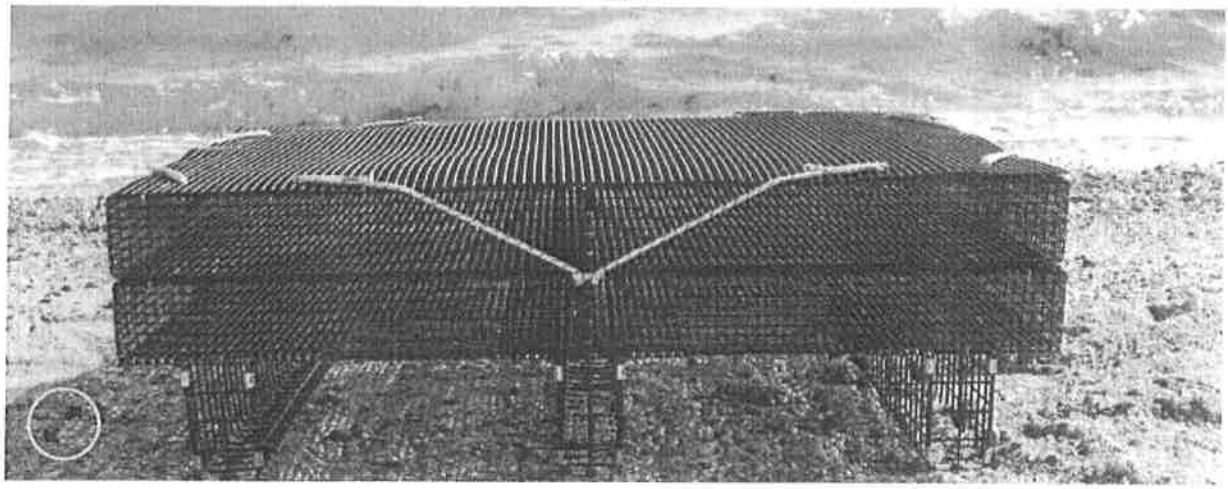
We carry only the finest oyster bags, Intermas. The square bags are open on both ends, they can be cut down and squared off, or maximize your growing space by using our wire mesh bag closures. We carry 4mm, 6mm, 9mm 14mm and 18mm mesh bag sizes. Bags measure 100cm long by 50cm wide. Box of 25.

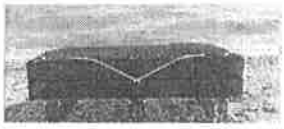
If you will be boxing your bags, consider making your own jig for faster assembly. See our picture for recommended dimensions.

Interested in a larger quantity of bags? We can also ship by the pallet or container. Call us for volume discount and shipping rates, 508-997-4787.

Square Mesh Size Choose an option

- 1 + ADD TO CART





Oyster Trays

Oyster grow out trays in 1/2" 3/4" or 1" square wire mesh, may be used with or without bags. Cages measure 3' x 4' and are 4" tall (cages made from 3/4" wire will be 4.5" tall). Trays may be single, double or triple stack, with or without feet, doors, v-braces and hooks.

CALL 508-997-4787 OR EMAIL

Add to Wishlist

SKU: NA_6

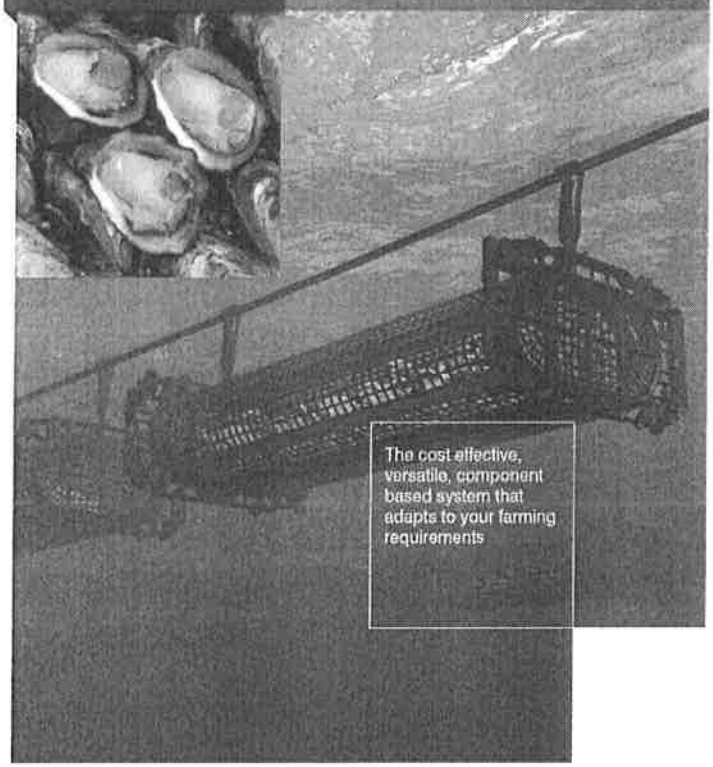
Categories: Aquaculture, Bottom Cages and Trays

RELATED PRODUCTS

SEAPA

Superior Oysters
Superior Farming Solutions

Oyster & Aquaculture Baskets



The cost effective, versatile, component based system that adapts to your farming requirements

SEAPA

The original, easy to use oyster basket system improving aquaculture productivity worldwide

SEAPA specialises in the design, marketing and supply of injection moulded plastic aquaculture products, in particular oyster baskets, oyster basket attachment systems and accessories. Our products are purpose built to simplify and increase efficiency of farming methods that include: subtidal, intertidal and floating oyster farming systems. Our primary goal is to provide the aquaculture industry with improved growing systems by offering practical, efficient and durable alternatives to current farming systems.

SEAPA works in collaboration with the farmers to design products suiting their particular growing conditions and management systems.

Tailor to your needs
A range of mesh sizes, end cap style options, basket volumes and accessories allow you to adapt the system to suit your particular needs. From our standard economical range, to our high volume grow out range, there is a basket for you.

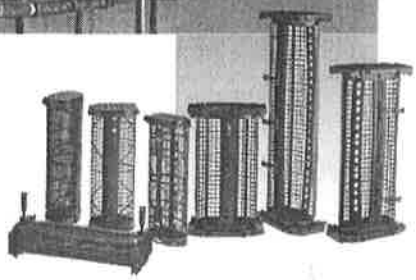
SEAPA's baskets are a proven product, manufactured from premium materials to withstand even the roughest conditions.

High productivity, healthy stock through all growth stages

Systems to create efficient farming methods

Adaptable to traditional farming techniques

International leaders in aquaculture products



SEAPA baskets are chosen for their adaptability and productivity throughout the world

- Australia
- New Zealand
- France
- USA
- Ireland
- Norway
- Mexico
- Japan

SEAPA

Maximises the productivity of your farming methods

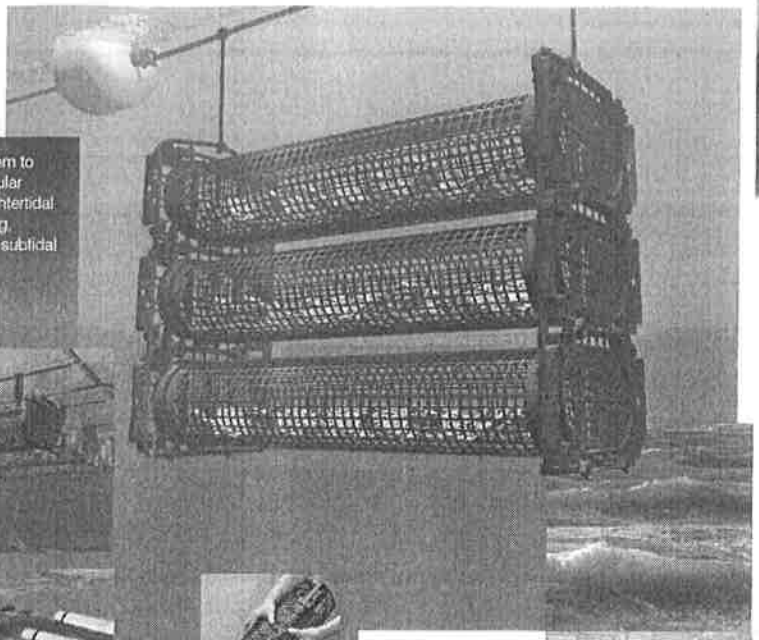
SEAPA baskets are purpose designed to simplify shellfish production using longline, rack and other methods.

Developed in association with growers, the SEAPA product range provides a simple to use, versatile and secure growing environment.

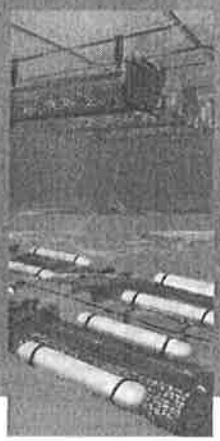
All baskets are fully compatible with the 'adjustable longline system' and have attachment points for SEAPA Clips. They can also be readily adapted to other farming methods and configured for subtidal or intertidal use.

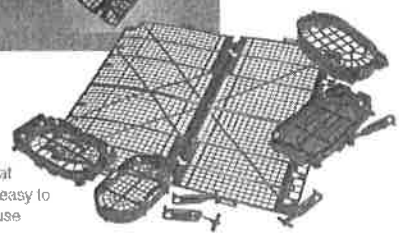
SEAPA oyster baskets:

- Are cost effective
- Pack flat and are easy to assemble
- Allow quick access to your stock
- Securely enclose stock, preventing washout and predation
- No corners for stock to lock into
- Oval shaped to promote tumbling
- Are designed by farmers for farmers
- Are compatible with a variety of farming systems
- Well established proven reliability



Choose a system to suit your particular requirements; intertidal longline, floating, rack and rail or subtidal laddering





Space saving flat pack shipping, easy to assemble and use

Compatible oyster farming methods include:

- Intertidal longline
- Floating
- Rack and rail
- Tables
- Subtidal laddering
- High energy and high wear environments

The 'StormBreaker' basket attachment system has been developed for aggressive areas where basket migration, stock loss and equipment failure have been problematic.

SEAPA
Basket components are hard-wearing and fully replaceable

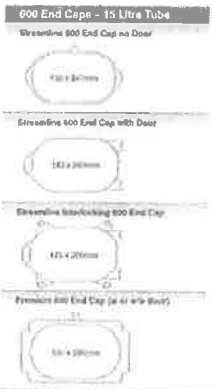
SEAPA 600 Baskets

- Suit intertidal and subtidal systems
- Spat through to grow out
- Can be automated
- Easy to handle and manage
- Suits most shellfish species
- Securely holds stock with easy access
- Available with streamline end/or premium end caps to suit application
- Available in 15 Litre volume

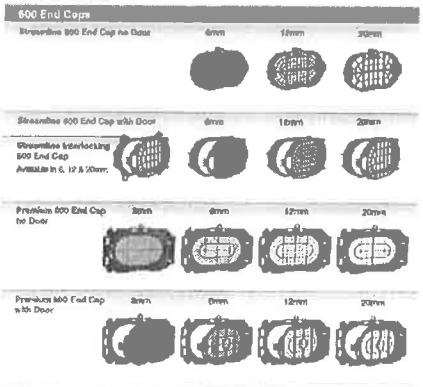
Stainless Steel Spat Basket

600 Basket Mesh - 15 Litre Tube

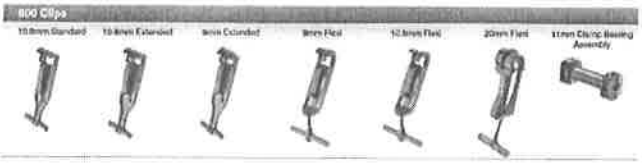
600 End Caps - 15 Litre Tube



600 End Caps



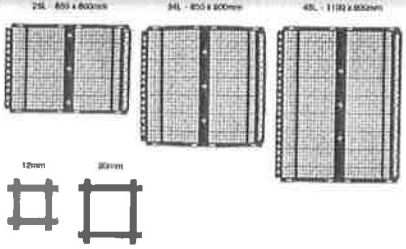
600 Clips



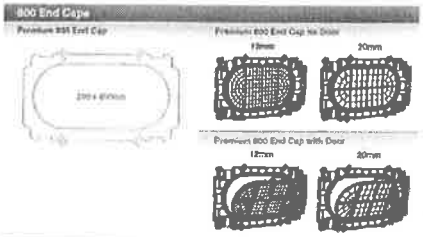
SEAPA 800 Baskets

- Designed to complement existing infrastructure including rack and trellis systems
- Bigger, faster growing area
- Accommodates larger stocking densities
- Suits intertidal and subtidal use, can be laddered
- Suits a wide variety of cultured species
- Can be automated
- Available in 25, 34 and 45 Litre volumes

800 Basket Mesh - 25, 34 & 45 Litre Tube

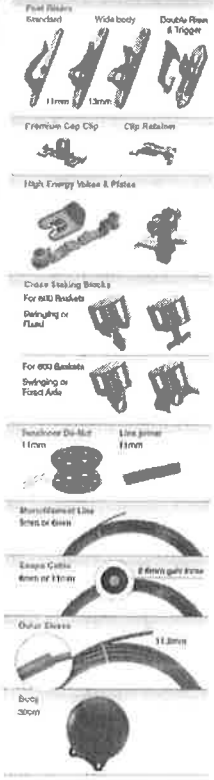


800 End Caps



800 Clips & Axles

Accessories



For further information and assembly details, please visit our website at www.seapa.com.au

SEAPA
High quality
dependable
products

SEAPA products are purpose designed with direct input from farmers during the initial development and in-field testing phases. We appreciate that every environment and application is unique. Listening to the needs of our customers and forming synergies to provide solutions is central to our core business. The SEAPA product range is diverse and progressively evolving.

Seapa products are injection moulded in Australia by our sister company Garon Plastics Pty Ltd, accredited under the ISO 9001:2008 quality system. These companies are jointly managed within the same facility which enables direct control of raw material input, production processes and, in turn, product consistency and quality. This is proven with original products still in operation since 1998.

Our personnel provide long standing expertise, knowledge and skills that enable the needs of the oyster farming industry to be met with efficiency. The SEAPA name is synonymous with innovation and superior oyster growing systems. Seapa products represent value for money.

'We experience some of the roughest growing conditions in Australia. Even after continual 70 knot winds and 1m waves, our commercial trial of the StormBreaker system came through. Not one basket cocked up, no doors pushed open, no clip or rivet wear and no oyster losses. But the best result is our stock – they are more uniform in shape, size and condition than we have ever experienced. The future is looking very prosperous thanks to SEAPA and their cooperative approach to designing a system that enables us to grow our oysters in an extreme environment.'

James Calvert
Tasmanian Oyster Company
Australia

'I have found SEAPA to be an excellent company to deal with. If we have a problem and it is able to be fixed SEAPA get onto it and resolve the problem. It is refreshing to deal with a company that actually listens to its customers.

These baskets are very robust and can handle all that mother nature can throw at them. We recently had a big storm and the only baskets that stayed on were SEAPA baskets.'

Vince Syddall
Pacific Marine Farms
New Zealand

'It is really easy for anyone to work with them, the baskets are easy to open and close and they are not too heavy. Oysters grow up very quickly, with spawnless oysters ready for sale after 12 to 15 months, compared with the French system of between 24 months and 36 months.

For me, SEAPA baskets with the longline system is a very good evolution for oyster farming, better for oyster quality and especially for farmers. In a few words – easy, quickly and quality.'

Jean-Marie Alfonso
Brittany, France

SEAPA Pty Ltd understands that each farm has its own unique tidal movements, weather patterns, seabed, food source and other variants effecting farming methods and management systems. Seapa recommends that our products are fully trialled to ensure they meet your specific environmental conditions. Please contact us to organise samples prior to large orders.

SEAPA Pty Ltd
Aquaculture Products

Head office
26 28 Erudina Avenue
Edwardstown
South Australia 5039

T +618 8357 6611
F +618 8357 4722
sales@seapa.com.au
www.seapa.com.au

Seapa USA
Contact: Lisa McCarl
T 412 600 8900
Lisa.McCarl@us.seapa.com.au

Products

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- Crab Trap
- Crawfish Trap
- Fish Trap
- Keep Creel
- Lantern Net
- Lobster Creel
- Octopus Trap
- Parlour Creel
- Prawn Creel
- Shrimp Trap
- Escape Hole
- Hook
- Neck
- Ring
- Spinner

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- www.prawn-creel.com
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Contact

- **About**
- **Contact**

Lantern Net 03

Lantern Net 04

● Circle: Gear Area Location

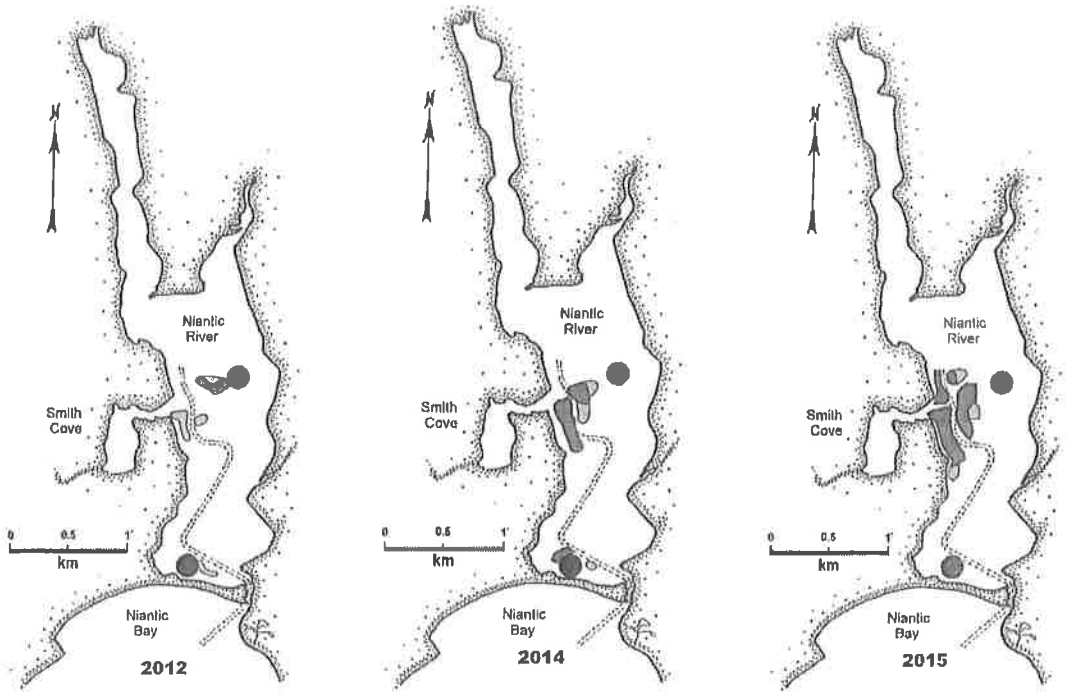


Fig. 8 continued.

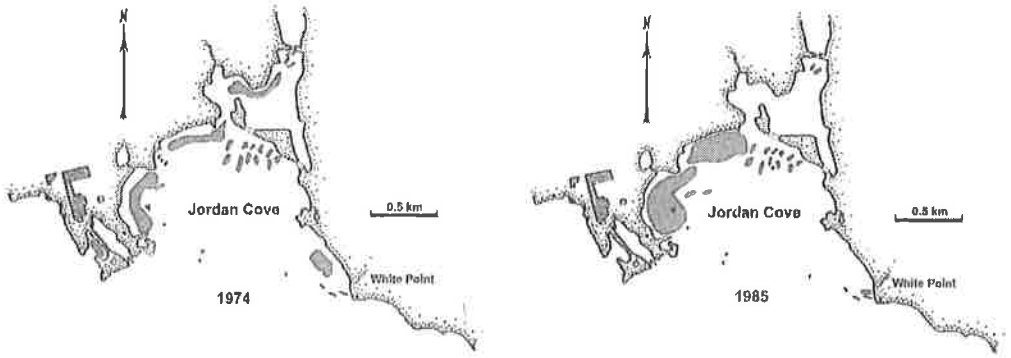


Fig. 9. Eelgrass (*Zostera marina*) distribution in Jordan Cove (select years shown). Green areas on maps from 1974 to 1997 indicate presence of eelgrass. Lighter green areas maps from later years indicate sparse (≤ 10% cover) eelgrass abundance. The 1974 map was based on Knight and Lawton (1974).

Attachment B
Eelgrass: Millstone 2016 Report

● Circle: Gear Area Location

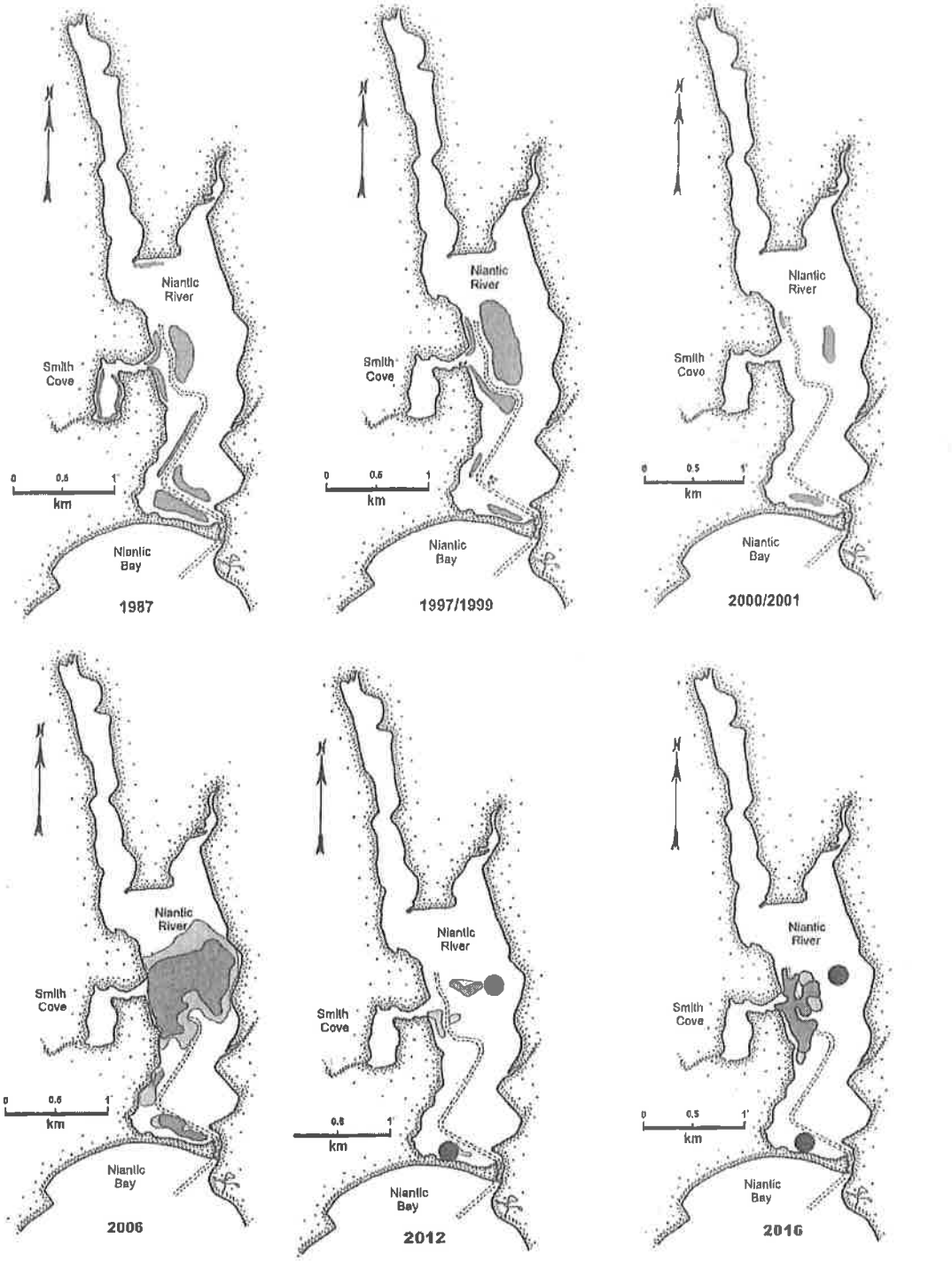
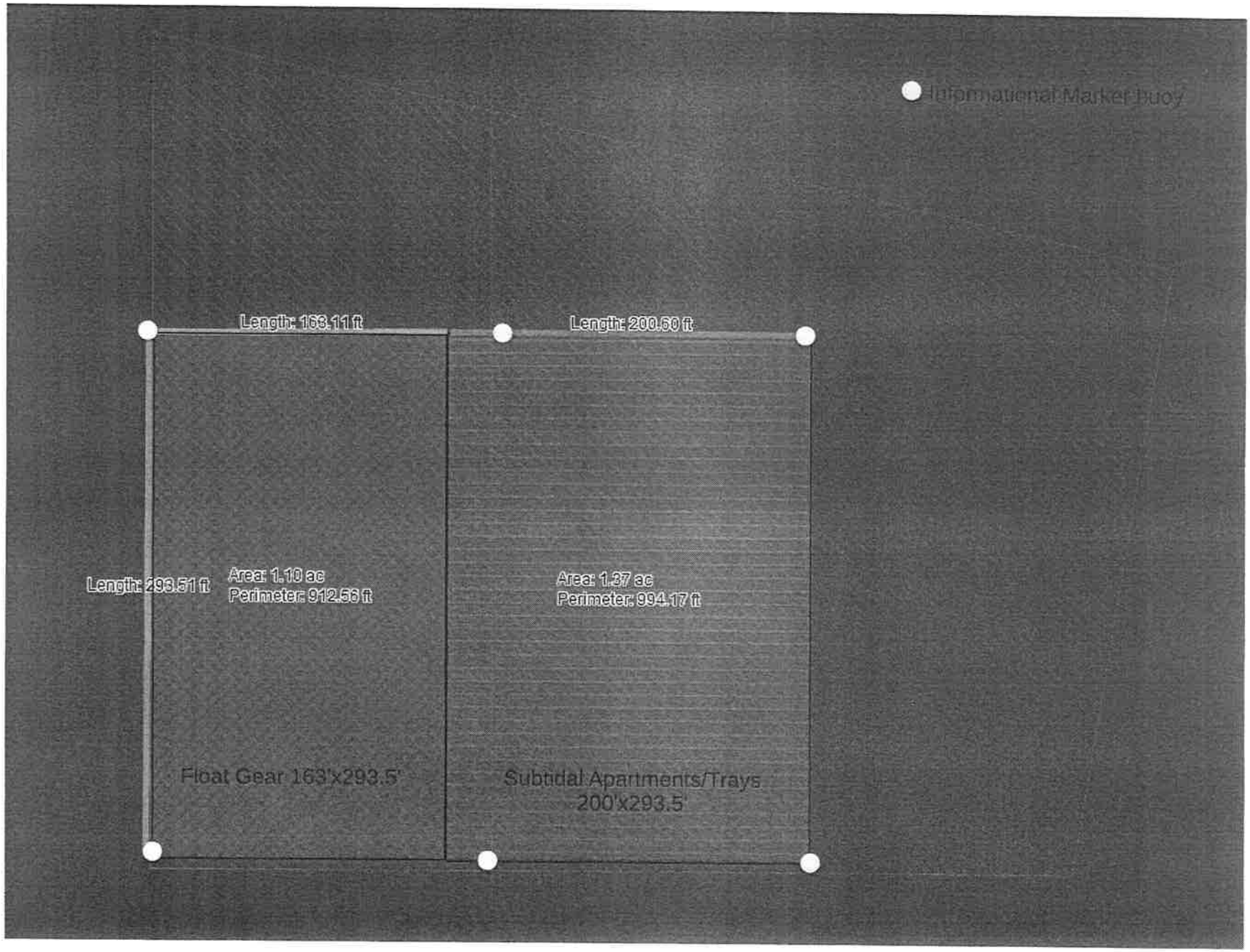


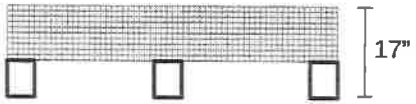
Fig. 8. Eelgrass distribution in the Niantic River based on surveys conducted during 1987-2016 (select years shown). Green areas on maps from 1987 to 2001 indicate presence of eelgrass. Lighter green areas in later years indicate sparse (≤10% cover) eelgrass abundance.

Attachment C: WELSCO 5 Spatial Gear Division

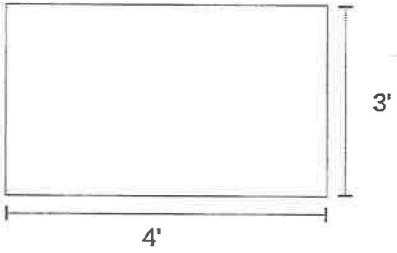


Attachment C: WELSCO 5 Gear Profile

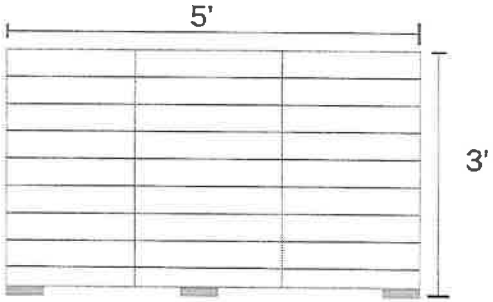
Tray Side View



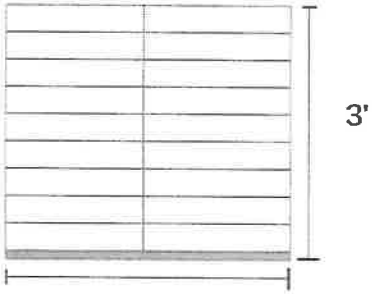
Tray Top View



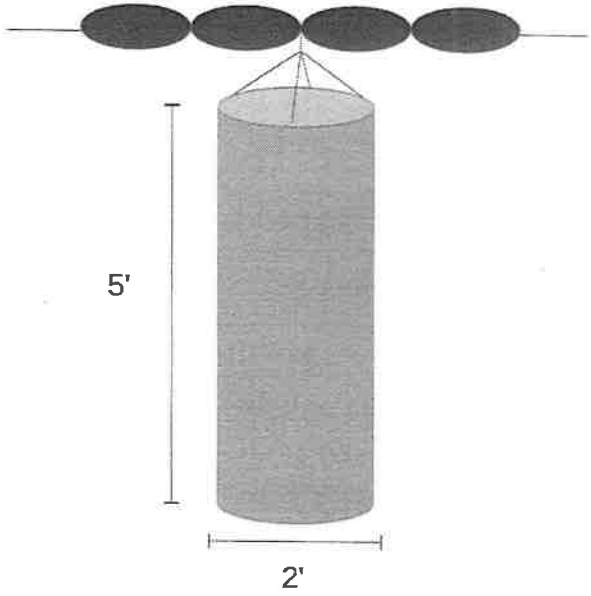
Apartment Style Front

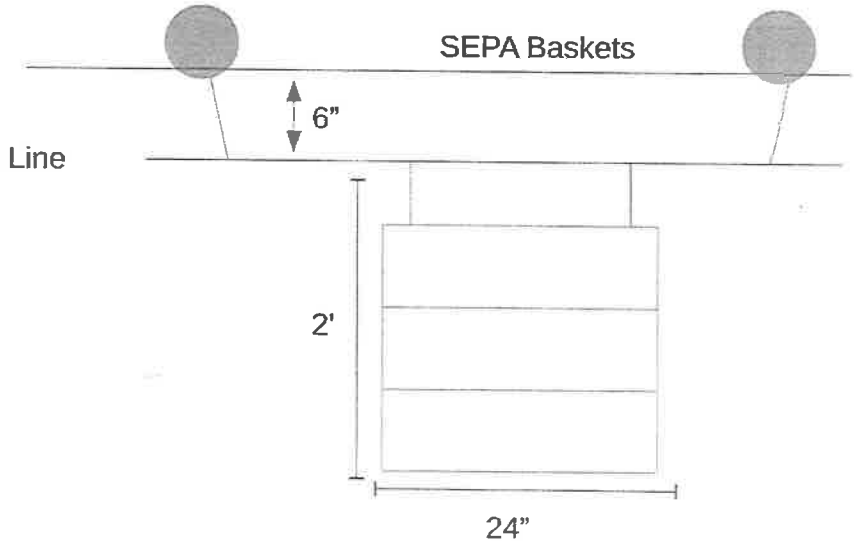


Side

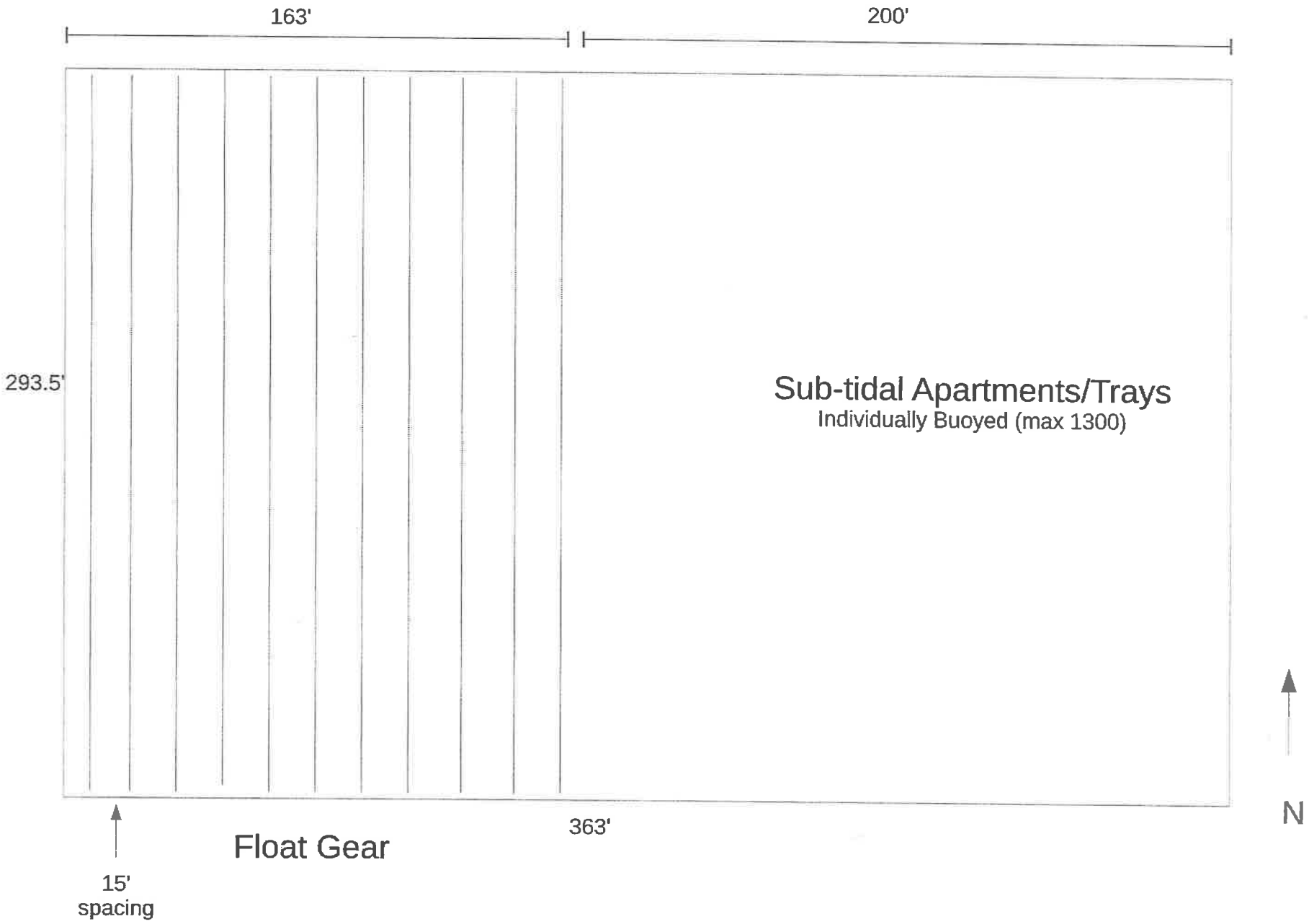


Lantern Net



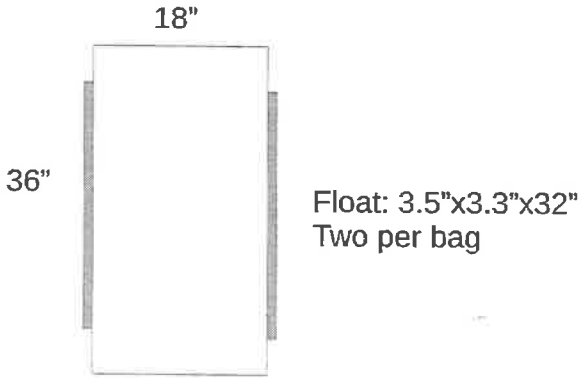


Attachment C: WELSCO 5 Gear Deployment



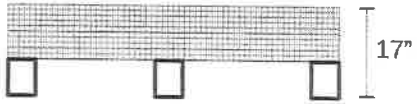
Attachment D: WELSCO 2 Gear Profile

Floating Vexar Bag

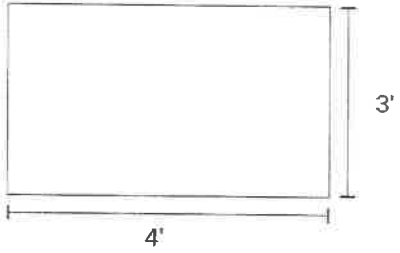


Float: 3.5"x3.3"x32"
Two per bag

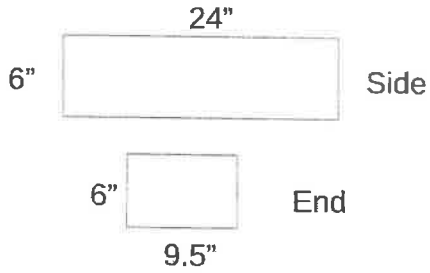
Tray Side View



Tray Top View



SEPA Baskets



SEPA Basket