

AQUACULTURE AND FORESHORE LICENCE APPLICATION FORM, for purposes of FISHERIES (AMENDMENT) ACT, 1997 and FORESHORE ACT, 1933

NB: The accompanying Guidance Notes should be read before completing this form.

Note: Details provided in Parts 1 and 2 will be made available for public inspection. Details provided in Parts 3 and 4 and any other information supplied will not be released except as may be required by law, including the Freedom of Information Act 1997 as amended.

USE BLOCK CAPITALS IN BLACK INK PLEASE

For Office Use

Application Ref. No. T10/351

Date of Receipt (Dept. Stamp):



Type of Applicant (tick one)	
Sole Trader	<input checked="" type="checkbox"/>
Partnership	<input type="checkbox"/>
Company	<input type="checkbox"/>
Co-Operative	<input type="checkbox"/>
Other	Please specify- <input type="checkbox"/>

PART 1: PRELIMINARY DETAILS

Applicant's Name(s)	
1.	Michael Lavelle
Address:	Glosh Blacksod Ballina Co. Mayo
2.	
Address:	
3.	
Address:	
4.	
Address:	

Contact in case of enquiries (if different from above)	
Contact Name	
Organisation Name (if applicable)	
Address	

PART 1: PRELIMINARY DETAILS

TYPE OF APPLICATION – please indicate relevant type of application	
This Application Form is valid for each type of application - <i>See Guidance Note 3.1</i>	
(i) Aquaculture Licence	<input type="checkbox"/> yes
(ii) Trial Licence	<input type="checkbox"/>
(iii) Foreshore Licence, if Marine Based	<input type="checkbox"/> yes
(iv) Review of Aquaculture Licence	<input type="checkbox"/>
(v) Renewal of Aquaculture Licence	<input type="checkbox"/>

TYPE OF AQUACULTURE

See Guidance Note 3.2

Indicate the relevant type of application with a tick.

(i) MARINE-BASED

- | | | |
|---|-------------------------------------|--------------------------|
| Finfish | <input type="checkbox"/> | Go to Parts 2.1 and 2.1A |
| Shellfish <i>Subtidal</i> | <input checked="" type="checkbox"/> | Go to Parts 2.2 and 2.2A |
| <i>Intertidal</i> | <input type="checkbox"/> | Go to Parts 2.2 and 2.2A |
| Seaweed/Aquatic Plants/Aquatic Fish Food | <input checked="" type="checkbox"/> | Go to Parts 2.3 and 2.3A |

(ii) LAND-BASED

- | | | |
|--|---|--------------------------|
| Finfish <input type="checkbox"/> | Shellfish <input type="checkbox"/> | Go to Parts 2.4 and 2.4A |
| Aquatic Plants <input type="checkbox"/> | Aquatic Fish Food <input type="checkbox"/> | Go to Parts 2.4 and 2.4A |

(iii) TRIAL LICENCE

- | | |
|--------------------------|----------------------------------|
| <input type="checkbox"/> | Go to appropriate Parts as above |
|--------------------------|----------------------------------|

2.2 MARINE-BASED SHELLFISH AQUACULTURE

When filling out this section refer also to 2.2A and Guidance Note 3.3 for information on Conditions and Documents required with this application type

Proposed Site Location

- (i) Bay: BLACKSOD BAY
- (ii) County: MAYO
- (iii) OS Map No: IRISH GRID - OS Map Sheet No.
- (iv) Co-ordinates of Site: (please specify coordinate reference system used e.g. Irish Grid (IG) or Irish Transverse Mercator (ITM) or Latitude/Longitude [in which case specify whether ETRS89 or WG84 etc.]

Michael Lavelle Site A		
Site size = 24 hectares		
Irish National Grid Coordinates		
Corner Id	East	North
1	67640	322225
2	68040	322225
3	68040	321625
4	67640	321625

- (v) Size of Site (hectares): 24 ha

(vi) Species (common and scientific name) and whether native or non-native species: (see Guidance Notes 3.3.1)

Common name	Scientific name	Native/non-native
Native Oyster	<i>Ostrea edulis</i>	Native
Pacific oyster	<i>Magallana gigas</i>	Non- native
Mussel	<i>Mytilus edulis</i>	Native
King Scallop	<i>Pecten maximus</i>	Native
Queen scallop	<i>Aequipecten opercularis</i>	Native

(vii) Whether production will be sub-tidal or inter-tidal?

Sub Tidal

(viii) Please supply details of (a) source of seed e.g. wild hatchery and location and (b) means of collection and introduction to culture.

Native Oysters, Pacific oysters, scallop, can be sourced from hatcheries – Irish, UK or France. We intend to collect natural local native oyster, mussel and scallop using variety of collectors (rope and mesh etc). Seed will be transported from hatcheries in the usual transport boxes or bags and sorted into the various growing structures at shore base before being brought to site.

NB Importation of seed into the State or movement of seed within the State requires notification to the Marine Institute as per the Fish Health Authorisation Regulations – See Guidance Notes Section 6

(ix) Method of culture (rope, trestles – intensive; bottom – extensive; other)

It is proposed that a variety of growing equipment will be used on the site. On the longlines there will be hanging, bags, baskets, nets, lantern nets, hanging mesh and in the case of mussel - rope and mesh droppers.

(x) Proposed number of lines/ropes/trestles as per site layout drawing

The majority of the site will be single 220m longlines for the cultivation of seaweeds. We estimate there will be a total of 46 of these longlines once at full capacity. In addition we hope to grow rope mussels on 12 x 110m double mussel lines and trial cultivation of scallop and oyster on 2 x 220 single longlines as shown on Drawing Number :007

(xi) Proposed Production Tonnage:

Mussels estimates below. No estimates for scallop and oysters as these will be trials

Year 1	0	Year 2	0	Year 3	80	Year 4	100	Year 5	110
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(xii) (a) Please outline the reasons for site selection:

- (1) I have access to the sea 3km from the site at Blacksod pier where there is a means of lifting.
- (2) The site is in a sheltered bay.
- (3) Information on the water classification in the bay is h.
- (4) It does not encroach on any protected habitat.
- (5) Low amount of fishing activity in the area.
- (6) Visible from the shore.

(b) If using trestles please outline the physical characteristics of the site which make it suitable for using trestles

It is a deep and sheltered site with little boat activity.

(xiii) Is it intended that the product is for direct human consumption or half grown? Please specify I intend selling product for direct human consumption – sell to existing Irish processors and fresh exporters

(xiv) How will the visual impact issues of the flotation devices for the proposed application be addressed?

There will be minimal visual impact as we use black & grey surface marker buoys / barrels only as per guidelines.

(xv) Is the site located in Designated Shellfish Waters Area? (Refer to Guidance Note 3.3.2)

Yes No

If yes give details.

BLACKSOD BAY DESIGNATION MAP NO. 15

If no outline the reasons why you believe the site suitable for the proposed aquaculture, notwithstanding its location outside Designated Shellfish Waters Area?

(xvi) Has the area been classified under Food Safety Legislation? (For Bivalve Molluscs) What is the current classification of the area for the proposed species applied for?

YES . CURRENT STATUS 2020-21

Blacksod Bay (Belmullet)

Blacksod Point to Kanfinalta Point

All Beds for Oysters

Classified A

(xvii) Is the site located in/adjacent to a sensitive area e.g. SPA (Special Protection Area) or SAC (Special Area of Conservation) i.e. a Natura 2000 site? (Refer to Guidance Note 3.3.1- Natura 2000 sites)

YES. WITHIN BLACKSOD-BROADHAVEN SPA SITE 004037 AND MULLET BLACKSOD SAC 000470.

(xviii) Are there known sources of pollution in the vicinity e.g. sewage outfall? Yes / No
If yes please give full details.

NO

(xix) Methods used to harvest the shellfish and details of any subsequent processing of shellfish

The shellfish will be hand harvested using owned vessel *Rogue Wave*, a 10 meter steel work boat. The shellfish will be sold direct, no processing will be performed by us.

(xx) Describe any proposed purification facilities to be used:

If required we intend to sell to establish shellfish buyers with these facilities.

(xxi) What are the main predators of the species to be cultivated?

None known at the moment.

(xxii) Describe the method(s) which will be used to control them

See Part 2.2A for details of documentation to be included with this application type

2.3 MARINE-BASED SEAWEED/AQUATIC PLANTS/AQUATIC FISH FOOD AQUACULTURE

When filling out this section refer also to 2.3A and Guidance Note 3.3 for information on
Conditions and Documents required with this application type

Proposed Site Location

- (i) Bay: Blacksod bay _____
- (ii) County: Co Mayo _____
- (iii) OS Map No: _____
- (iv) Co-ordinates of Site: (please specify coordinate reference system used e.g. Irish Grid (IG) or Irish Transverse Mercator (ITM) or Latitude/Longitude [in which case specify whether ETRS89 or WG84 etc.]

Michael Lavelle Site A		
Site size = 24 hectares		
Irish National Grid Coordinates		
Corner Id	East	North
1	67640	322225
2	68040	322225
3	68040	321625
4	67640	321625

- (v) Size (hectares): 24 ha total

Species (common and scientific name):

Brown Algae :

Laminaria Digitata (Oarweed),
Laminaria Hyperborea (Forest Kelp),
Saccarina Latissima (Sugar Kelp),
Alaria Esculenta (Wing Kelp),
Saccorhiza Polyschides (Sea Hedgehog).
Himanthalia Elongata (Sea Spaghetti)

Red Algae:

Chondrus Crispus (Carrageen Moss),
Palmaria Palmata (Dulse),
Porphyra Species; Linearis, Umbilicalis, Dioica (Sloke/Nori),
Osmundia Pinnatifida (Pepper Dulse)
Asparagopsis Armata (Harpoon weed)

Green Algae:

Ulva Lactuca, (Sea Lettuce)
Ulva Compressa / Intestinalis (Sea Grass)

- (vii) What is the source of plantlet? Locally sourced & Hatchery
- (viii) Cultivation Method? Long lines Droppers and Nets
- (ix) Proposed total number of lines/ropes 46 seaweed single lines

(x) Proposed Production: Seaweed – wet weight

Year 1	15	Year 2	30		Year 3	60	Year 4	67	Year 5	67
--------	----	--------	----	--	--------	----	--------	----	--------	----

(xi) Reasons for site selection:

- 3km from Blacksod pier where there are services (Marine crane).
- The site is contained in a sheltered bay.
- Low amount of fishing activity in the area.
- Visible from the shore.
- No protected species in the boxes selected (such as Zostera/Maerl)

(xii) Provide detailed information on the techniques for cultivation in use or to be used. Are these techniques currently in use in the industry or are they new? Please give details;

I will use submerged longlines which are currently the industry norm in Ireland. I will base our cultivation techniques on best practice among other seaweed farmers and on our own experience of working on an existing aquaculture site which is adjacent to this site.

(xiii) Methods used for harvesting.

I will hand harvest the seaweed using my own vessel (*Rouge Wave*). Using food grade bins.

(xiv) Has the site sufficient space for the site structures including mooring blocks?

Yes

Please provide separately detailed drawings of both over and under water structures including moorings. (See Guidance Note on Site Structures 3.3.2)

See Attached

(xv) How will the visual impact issues of the flotation devices for the proposed application be addressed?

There will be minimal visual impact by the use of black/Grey surface marker buoys only

(xvi) Is the site located in a sensitive area e.g. SPA (Special Protection Area) or SAC (Special Area of Conservation) i.e. a Natura 2000 site? (Refer to Guidance Note 3.3.1- Natura 2000 sites)

If Yes give details

The site is located beside 3 protected areas for Zostera, Maerl and Serpula. Care has been taken to avoid these areas in the site selection.

See Part 2.3A for details of documentation to be included with this application type

PART 5: DECLARATION AND SIGNING

NB: Refer to Guidance Note Section 3.5 and Section 4 - Guidance on Declaration and Signing and Annual Aquaculture and Foreshore Licence Fees

If this is a renewal/review have you met all licence conditions of the existing aquaculture licence? If applicable, explain why you have not complied with all conditions:

I hereby declare the information provided in Parts 1, 2, 3 and 4 above to be true to the best of my/our knowledge and that I am over 18 years of age. I/We enclose an application fee* of **€95.23** with this application.

Signature(s) of Applicant(s): Michael Lavelle Michael Lavelle
(Please state capacity of persons signing on behalf of a Company/Co-op) _____

Date: 24/05/2021

NB All persons named on this licence application must sign and date this application form. Only the existing licence holder(s) can apply for the renewal/review of an Aquaculture Licence.

*Preferred method of payment is by cheque or bank draft. The fee should be made payable to the Department of Agriculture, Food and the Marine.

Refer to Guidance Note Section 4 - Guidance on Aquaculture and Foreshore Licence Fees

The application form should be forwarded, with the required documents and application fee, to:

**Aquaculture Licensing
Aquaculture & Foreshore Management Division
Department of Agriculture, Food and the Marine
National Seafood Centre
Clonakilty
Co. Cork
P85 TX47**



Blacksod Bay
Cuan an Fhoid Duibh

0 2.5 5 10 Kilometers

Legend

- Michael Lavelle Site A
- DAFM Aquaculture Licences



Tel:	086-1636715
Email:	jcdesignandsurvey@gmail.com
Address:	Tipp, Belmullet, Co. Mayo
Client:	Michael Lavelle
Project Name:	Aquaculture & Foreshore License Blacksod
Title:	Site Location Map Site A
Project No:	M 828
Drawing No:	001
Scale:	1/100,000 @ A4
Date Drawn:	20/05/2021
Drawn By:	J. Coyle
Checked By:	J. Coyle
Revision No:	E



Legend

- Michael Lavelle Site A
- DAFM Aquaculture Licences
- Boat access from Blacksod Pier & Road R313

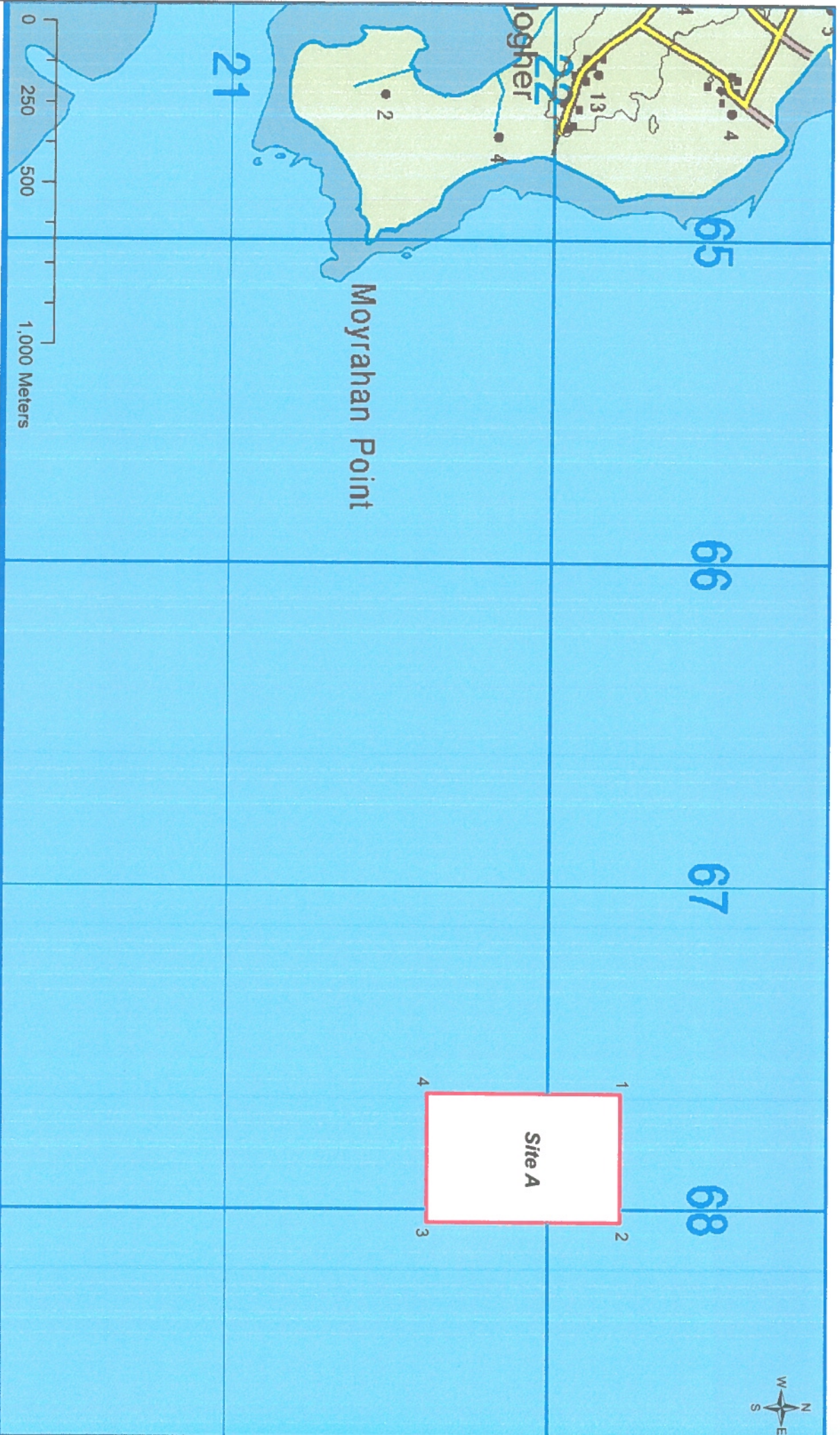
27 MAY 2021

Department of Agriculture, Food & The Marine

Design & Survey

Client:	Michael Lavelle
Project Name:	Aquaculture & Foreshore License Blacksod
Title:	Access Route To Site A
Project No:	M 828
Drawing No:	002
Scale:	1/75,000 @ A4
Date Drawn:	20/05/2021
Drawn By:	J. Coyle
Checked By:	J. Coyle
Revision No:	F

Tel: 086-1636715
Email: jcdesignandsurvey@gmail.com
Address: Tipp, Belmullet, Co. Mayo



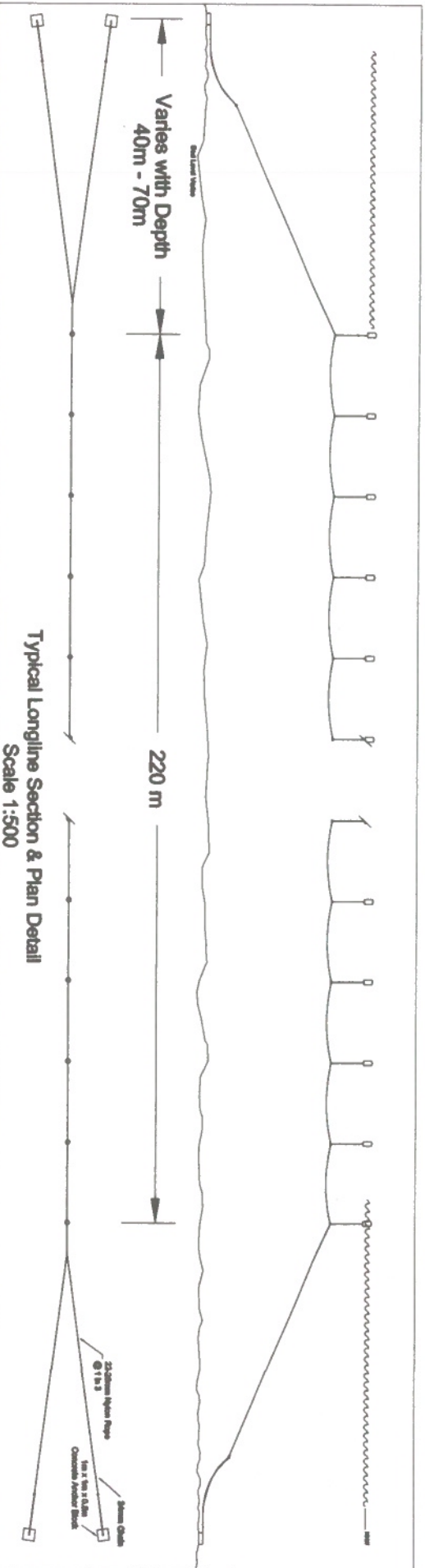
Legend

Michael Lavelle Site A

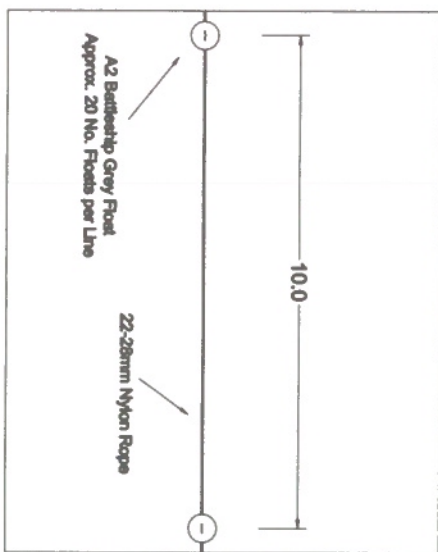
Michael Lavelle Site A	
Site size = 24 hectares	
Irish National Grid Coordinates	
Corner Id	East North
1	67640 322225
2	68040 322225
3	68040 321625
4	67640 321625



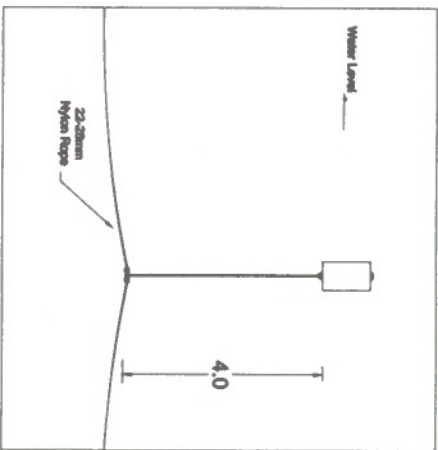
Client: Michael Lavelle	Tel: 086-1636715
Project Name: Aquaculture & Foreshore License Blasted	Email: jedesignandsurvey@gmail.com
Title: Site Coordinates Site A	Address: Tipp, Belmullet, Co. Mayo
Project No: M 828	Scale: 1/15,000 @ A4
Drawing No: 003	Date Drawn: 20/05/2021
	Drawn By: J. Coyle
	Checked By: J. Coyle
	Revision No: 6



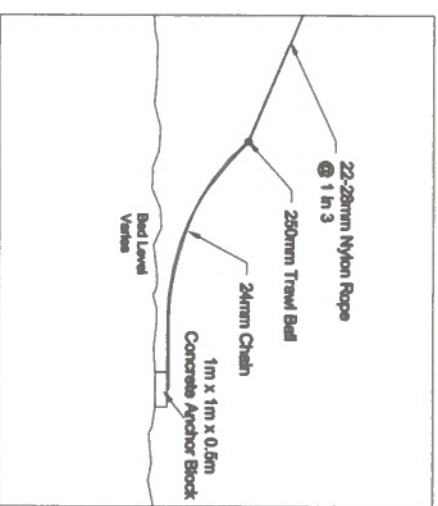
Typical Longline Section & Plan Detail
Scale 1:500



Typical Float & Rope Plan Detail
Scale 1:100



Typical Float & Rope Section Detail
Scale 1:100



Typical Anchorage Section Detail
Scale 1:200

Notes:

Typical growline system



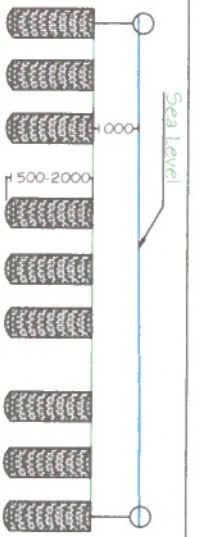
Tel: 086-1636715
Email: jcdesignandsurvey@gmail.com
Address: Tipp, Belmullet, Co. Mayo
Client: Michael Lavelle
Project Name: Aquaculture & Foreshore License Blacksod "A"

Title: Semi Submerged Seaweed Growline
Project No: M 828

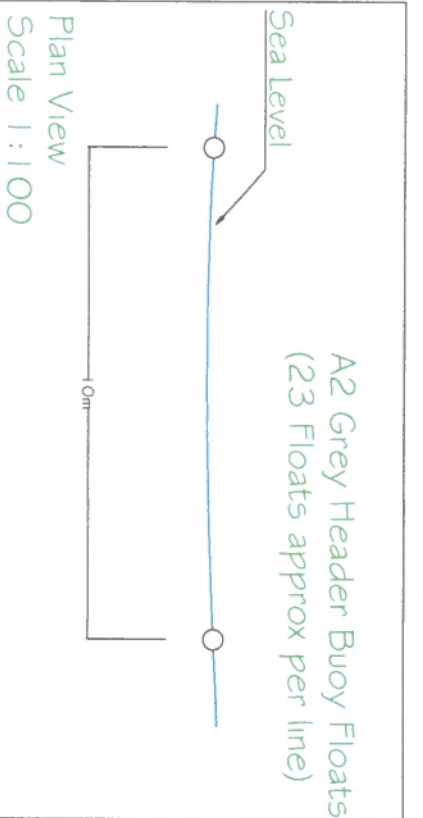
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Date Drawn: 19/04/2021

Drawn By: J. Coyle
Checked By: J. Coyle
Revision No: C

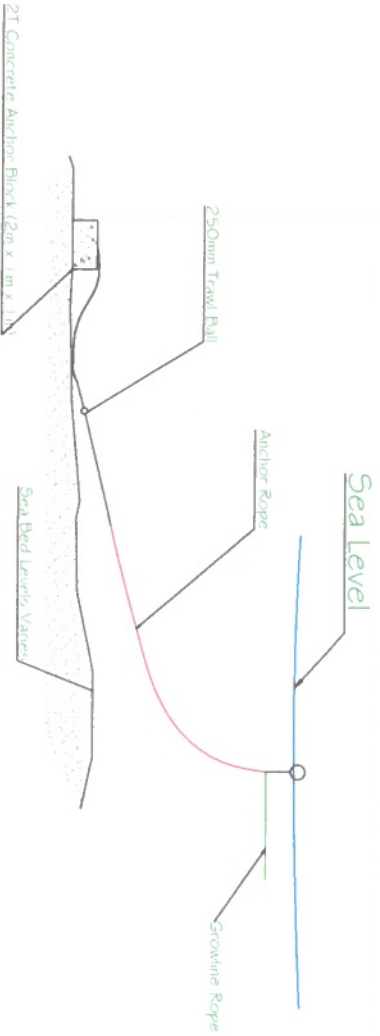




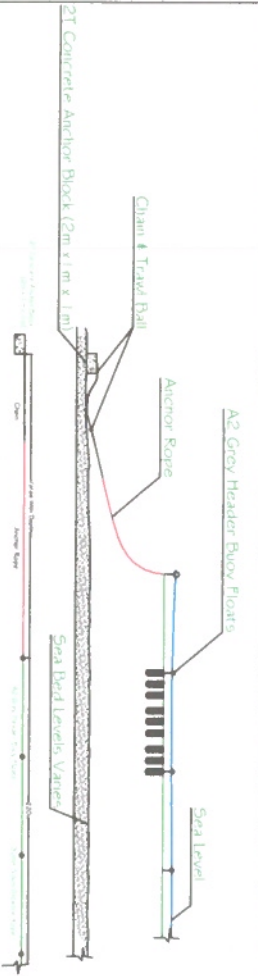
Typical Lanterns For Scallops & Oysters
Scale 1:100



Plan View
Scale 1:100



Typical Anchorage Detail
Scale 1:200



Typical Longline Plan & Section Detail
Scale 1:500

Design & Survey



Tel: 086-1636715
Email: jcdesignandsurvey@gmail.com
Address: Tipp, Belmullet, Co. Mayo

Client: Michael Lavelle

Project Name: Aquaculture & Foreshore License Blacksod "A"

Title: Lantern Detail Scallops/Oysters

Project No: M 828

Drawing No: 005

Scale: As Shown

Date Drawn: 19/04/2021

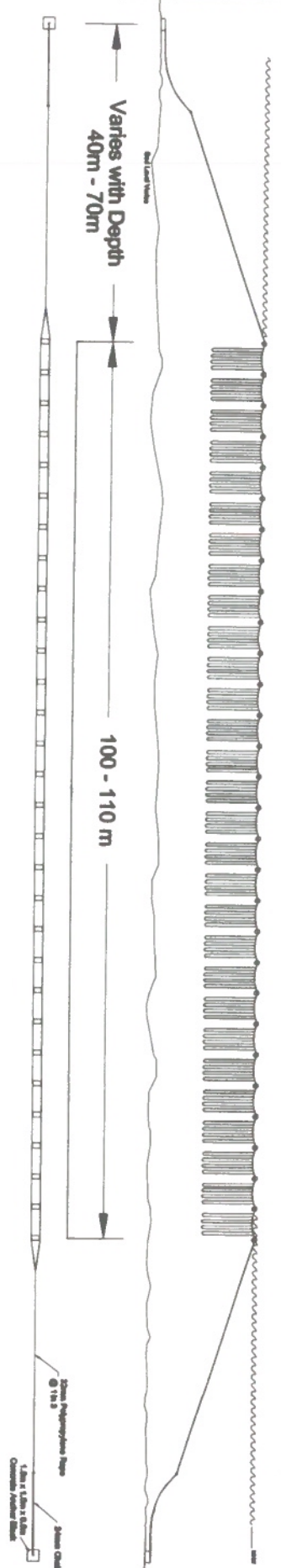
Drawn By: J. Coyle

Checked By: J. Coyle

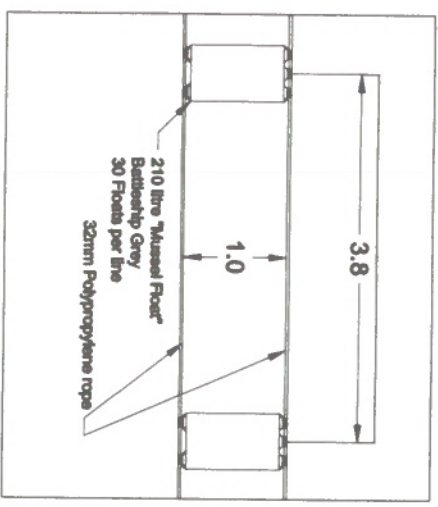
Revision No: D

27 MAY 2021

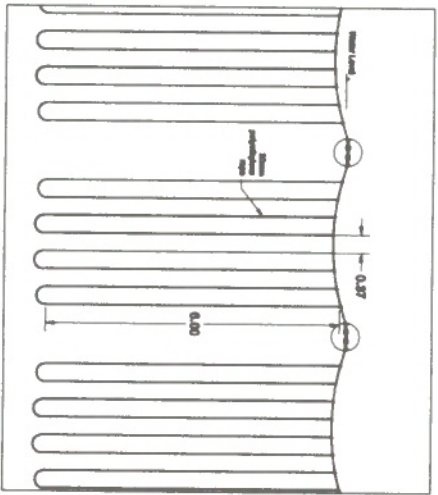
Aquaculture & Foreshore Management Division
Department of Agriculture, Food & The Marine



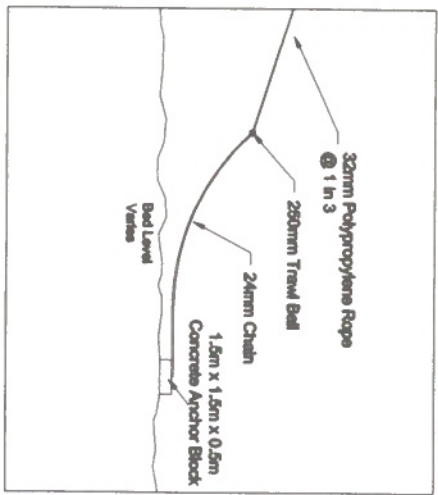
Typical Longline Section & Plan Detail
Scale 1:500



Typical Float & Rope Plan Detail
Scale 1:50



Typical Float & Rope Section Detail
Scale 1:100



Typical Anchorage Section Detail
Scale 1:200



Typical mussel growing system

Aquaculture & Foreshore Management Division
Department of Agriculture, Food & Marine

27 MAY 2021



Tel: 086-1636715
Email: jcdesignandsurvey@gmail.com
Address: Tipp, Belmullet, Co. Mayo
Client: Michael Lavelle

Project Name: Aquaculture & Foreshore License Blacksod "A"

Title: Mussel Line Growing System
Project No: M 828

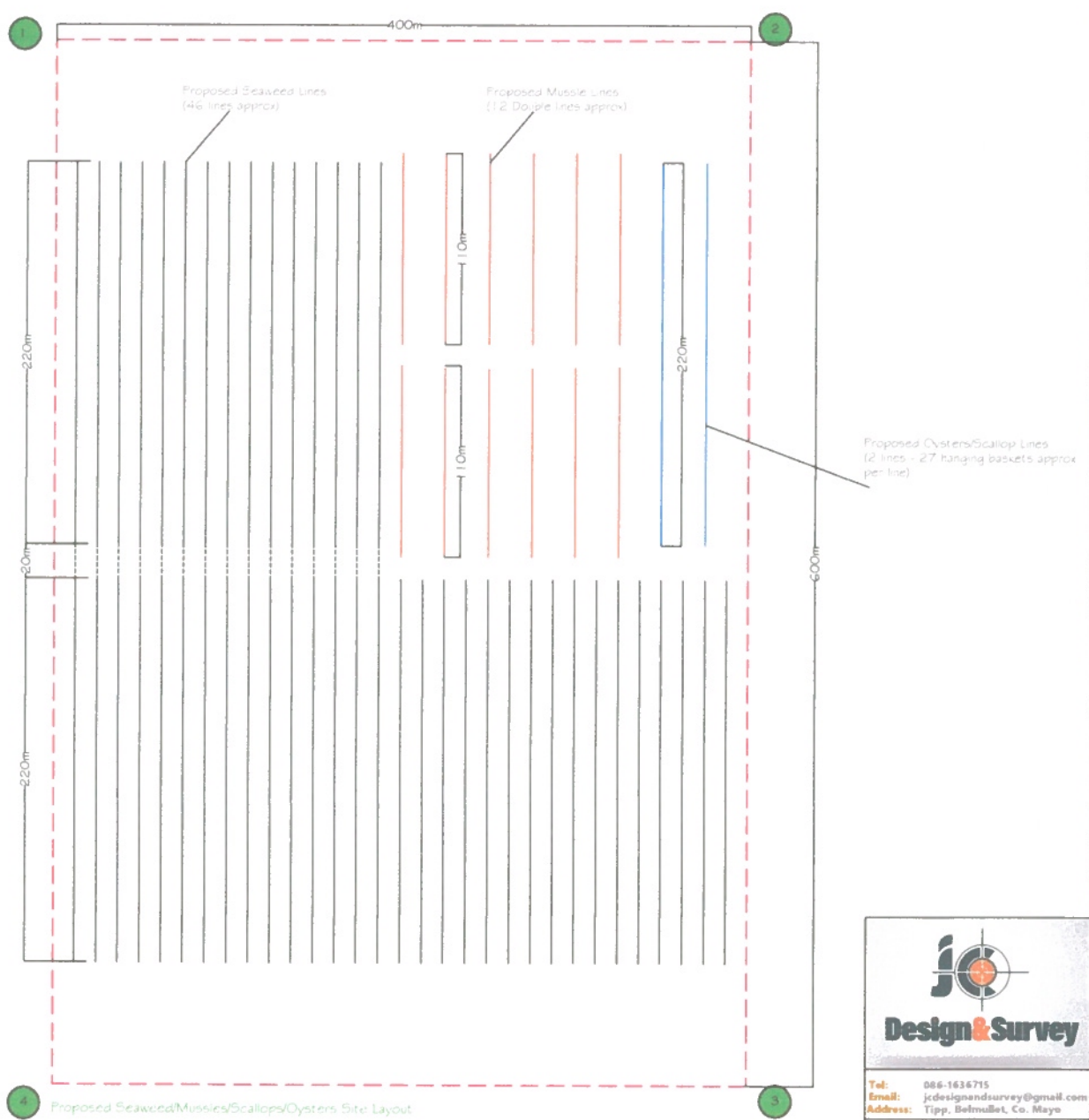
Drawing No: 006
Scale: As Shown

Date Drawn: 19/04/2021

Drawn By: J. Coyle

Checked By: J. Coyle

Revision No: B



Proposed Seaweed/Mussels/Scallops/Oysters Site Layout



Tel:	086-1636715
Email:	jcdesignandsurvey@gmail.com
Address:	Tipp, Belmullet, Co. Mayo
Client:	Michael Lavallo
Project Name:	Aquaculture & Foreshore License Blacksod "A"
Title:	Proposed Longline Site Layout
Project No:	M 828
Drawing No:	007
Scale:	1/2500 @ A3
Date Drawn:	20/05/2021
Drawn By:	J. Coyle
Checked By:	J. Coyle
Revision No:	

LEGEND

	Proposed Seaweed Lines
	Proposed Mussel Lines
	Proposed Oysters & Scallops
	Site Boundary

Notes:

Site Area: 24 Hectares	
Site Coordinates:	
1 - 67640E	322225N
2 - 68040E	322225N
3 - 68040E	321625N
4 - 67640E	321625N



1 NO. SITE AT BLACKSOD BAY CO.MAYO

Co-ordinates & Area

Site T10/351A (24 Ha)

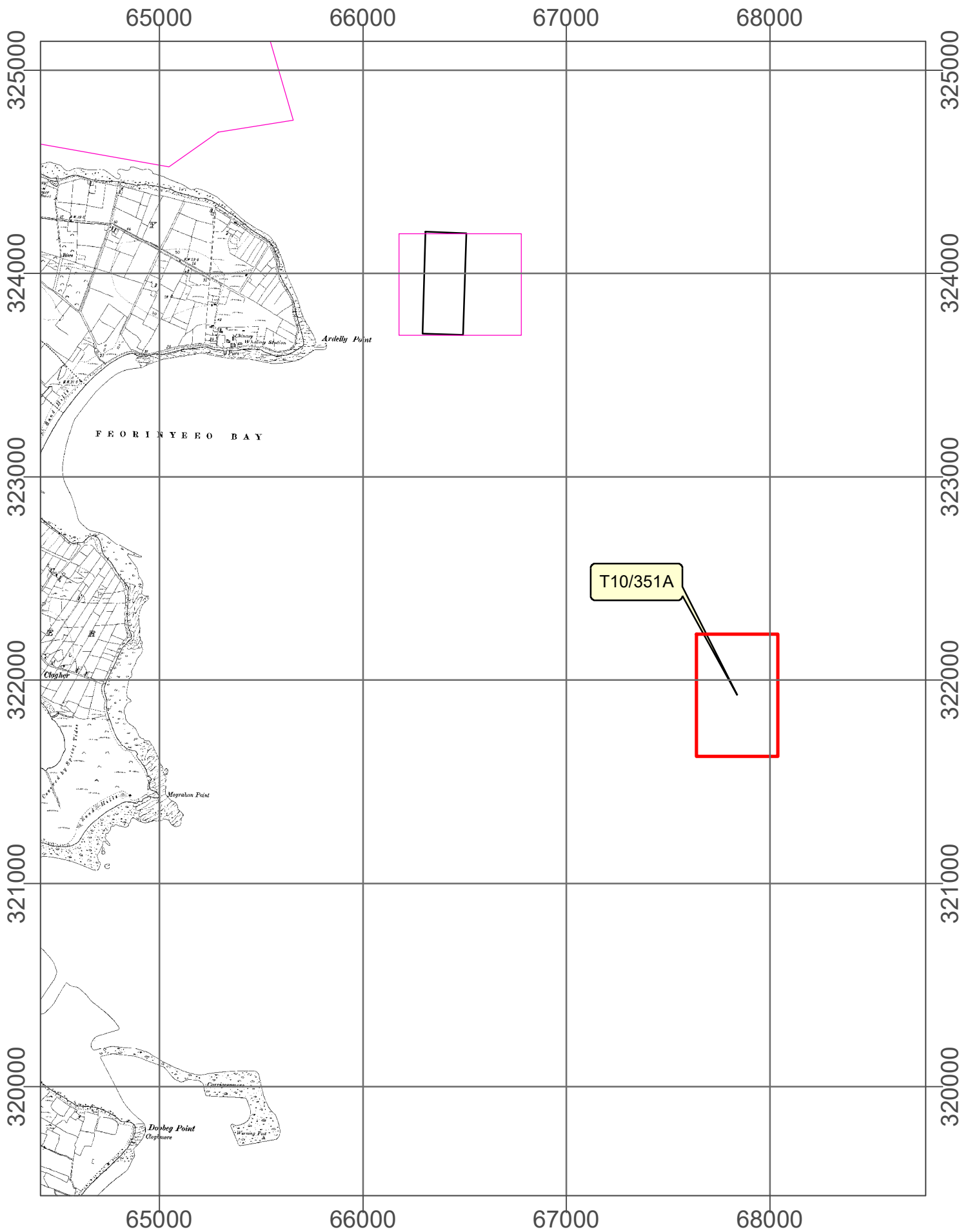
The area seaward of the high water mark and enclosed by a line drawn from Irish National Grid Reference point

067640, 322225 to Irish National Grid Reference point

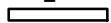
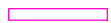
068040, 322225 to Irish National Grid Reference point

068040, 321625 to Irish National Grid Reference point

067640, 321625 to the first mentioned point.



1:24,000

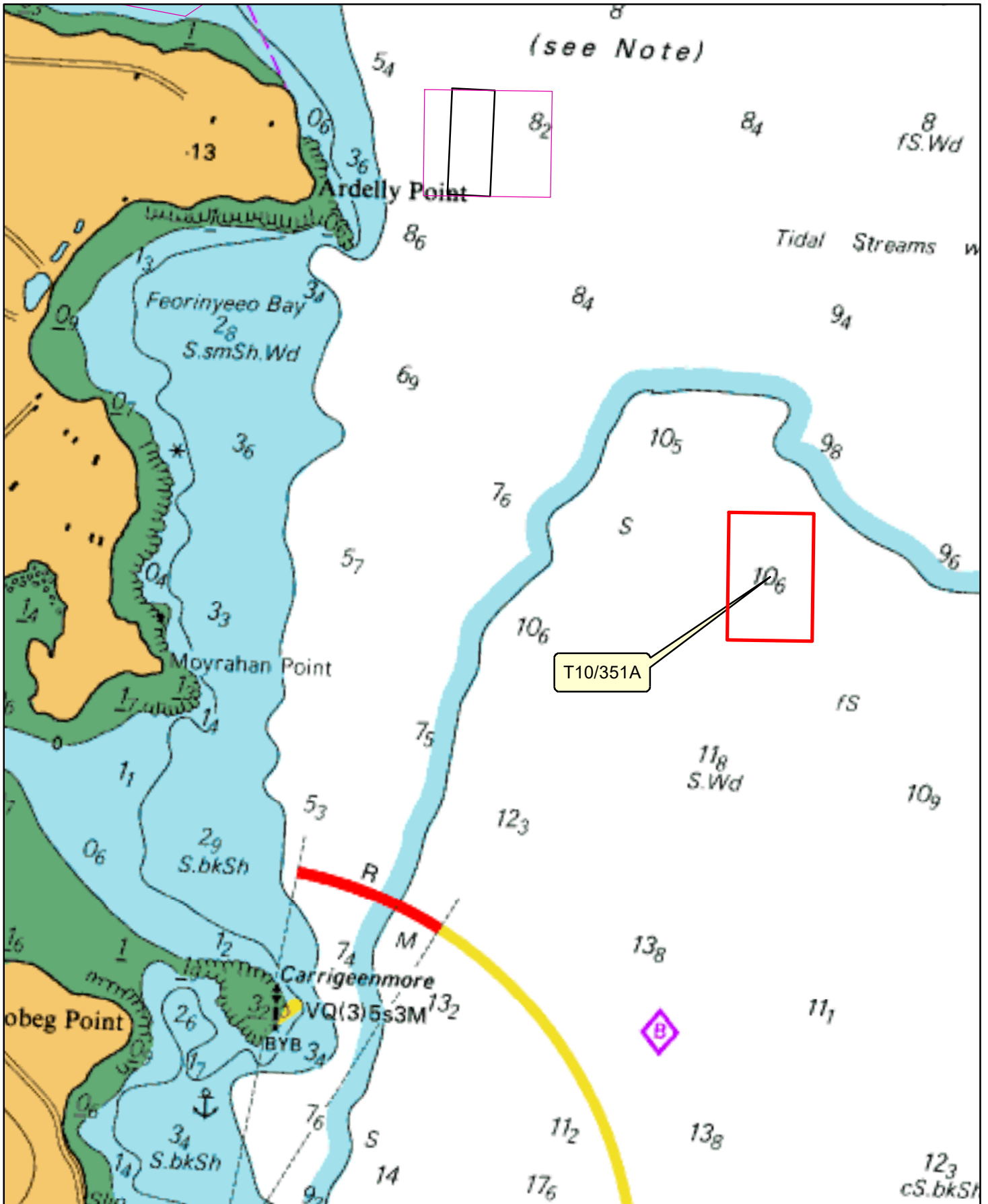
Site_Status
 Licensed
 Application

Sites highlighted in red denotes Application

Ordnance Survey Ireland Licence No. EN 0076421
 © Ordnance Survey Ireland/Government of Ireland



**An Roinn Talmhaíochta,
 Bia agus Mara**
 Department of Agriculture,
 Food and the Marine



1:24,000

Site_Status
 Application
 Licensed

Sites highlighted in red denotes Application

Part of Admiralty Chart No =2704-0
 Not to be used for Navigation



An Roinn Talmhaíochta,
 Bia agus Mara
 Department of Agriculture,
 Food and the Marine