BRITISH COLUMBIA | Ministry of Agriculture and Lands

SHELLFISH MANAGEMENT PLAN

GENERAL INFORMATION (Table 1):	
Name of Company:	Telephone Number: ( )
Name in Full of Applicant:	Alternate Telephone Number: ( )
Contact Name (if different from above):	Fax Number: ( )
Mailing Address of Applicant:	Cellular Phone: ( )
City, Province, Postal Code	Email Address:

☐ New Application	☐ Renewal	☐ Amendment

GOVERNMENT REFERENCE NUMBERS (for existing operations):		
Aquaculture Reference Number	**Land File Number**	**Canadian Coast Guard File Number**

Office Use Only			
Type of Operation:			
☐ Land Based	☐ Water Based	☐ Marine	☐ Freshwater
Operation is On:			
☐ Provincial Crown Land	☐ Federal Harbour or Port	☐ Private Upland or Foreshore	
☐ Native Reserve	☐ Provincial Park	☐ Federal Park	

Submit to:
Front Counter BCt
Integrated Land Management Bureau
Suite 142 – 2080 Labieux Road, Nanaimo BC V9T 6J9
Tel: (250) 751-7220 Fax: (250) 751-7224

Please refer to the *Shellfish Management Plan Guide* for detailed instructions on completing the plan: http://www.agf.gov.bc.ca/fisheries/licences/licences-shellfish.htm

NOTE: Sections A, C, D and F form part of the Terms and Conditions of the Aquaculture Licence. **Adherence to these sections is therefore required to be compliant with licence conditions.** Sections B and E are for evaluation purposes only and are not part of the Terms and Conditions of the Licence. **All sections must be completed.**

SECTION A: DESCRIPTION OF SITE

1. Legal Description of Site (e.g. Land District and Lot Number): _____

_____

2. Geographic Location of Site: _____

_____

3. Estimated Total Area of Site: _____

Office Use Only		
Grow out system(s):	☐ Beach	☐ Deepwater Seabed
	☐ Deepwater Suspended	
DFO Statistical Area and Sub Area:		

SECTION B: OPERATIONAL FACILITIES AND TYPICAL LAYOUT
(For Production Planning and Proposal Assessment Only)

Please attach the following maps and diagrams; they should be drawn/drafted in ink, **to scale** and be consistent with the other information in the Management Plan. Consult the Shellfish Management Guide for more detailed information.

1. **Location Map:** A photocopy of Canadian Hydrographic Service Marine Chart, Cadastral map, or Topographical map of a scale between 1:20,000 and 1:40,000, showing the area under application

2. **Site Layout Diagram:**

- Show detail of operations and all intended improvements* and indicate culture areas and associated uses in relation to tenure boundaries and tide heights.
- Include both upland and foreshore uses and facilities *if applicable*. If beach or Crown upland modification is required, show areas to be modified and indicate proposed changes to the beach.
- If this is an application for the expansion of a site, also provide maps and drawings of existing tenure and infrastructure.
- Describe and mark the location of other facilities associated with the proposed aquaculture operation, either existing or proposed. These may include anchor grids, wharves, access roads, staff facilities, portable washrooms, etc.

3. Illustration of Operational Methods

- Where applicable, provide detailed diagrams of operational components such as stacks, racks, rafts, near bottom and deep water longlines, anchoring and mooring systems, cages, raceways, grow-out tanks, trays, predator netting, perimeter fencing etc.
- Include profile (side view) and top view diagrams, dimensions and construction details of all major components.

*For more information regarding diagram requirements please refer to the *Shellfish Management Plan Guide*. Examples of acceptable diagrams are included in the *Guide*.

SECTION C: SCHEDULE OF IMPROVEMENTS

Table 2 – Schedule of Improvements

Improvement	Total Maximum Area or Length of Improvements	Units
Predator Netting		Square metres
Rafts*		Square metres
Work floats		Square metres
Longlines		Linear metres
Rock Walls		Linear metres
Vexar Fencing		Linear metres
Other		
Other		

* The area occupied by a single raft is defined as its total length multiplied by its total width.

SECTION D: ENVIRONMENTAL INFORMATION

1. Please provide description and location of approved sanitary facilities for your own and staff needs.

2. Please provide the method of disposal for your waste material. (e.g. location of an approved landfill for disposal of your waste materials)

SECTION E: DETAILED PRODUCTION INFORMATION
(For Production Planning and Proposal Assessment Only)

This section is intended as an aid to production planning and to assist in evaluating proposed activities. All new growers are advised to refer to the farming practices outlined in the Ministry of Agriculture and Lands publication, Strengthening Farming - Shellfish, available at:

http://www.agf.gov.bc.ca/resmgmt/fppa/refguide/commodity/870218-25_Shellfish.pdf.

1. Site Utilization

Assuming the site is in full production, provide the following information:

a. Total hectares in production, including seed holding and conditioning: _____

b. Total unusable hectares (soft substrate, rocky substrate, too shallow, anchors 30 meters from rafts, etc.): _____

c. Total non-production hectares in use, including storage, anchor system within 30 meters of rafts or impeding navigation, etc: _____

Beach Culture:

Table 3 – Beach Production Information

Species	Culture unit	Culture Area m^2 or hectares	Seeding Density	Expected Production	Grow out Period
	☐ Singles				
	☐ Cultch				
	☐ Singles				
	☐ Cultch				
	☐ Net Panels				
	☐ Pipes				
Additional Information					
Dimensions of vexar bag: _____ cm X _____ cm X _____ cm Average number of cultch pieces per bag: _____					

Deepwater Suspended Culture:

Table 4 – Deepwater Suspended Production Information

Species	Method:	Culture Unit	Number of units	Seed/unit	Expected Production	Grow out Period
	☐ Rafts	☐ Tray				
	☐ Longlines	☐ String / Sock				
		☐ Nets				
	☐ Rafts	☐ Tray				
	☐ Longlines	☐ String / Sock				
		☐ Nets				
	☐ Rafts	☐ Tray				
	☐ Longlines	☐ String / Sock				
		☐ Nets				

Additional Information

Average length of string: _____ Average length of sock: _____

Tray type: _____ Net type: _____

Tray dimensions: _____ cm X _____ cm X _____ cm

Net dimensions: Number of tiers: _____ Diameter of net: _____

Number of rafts: Oysters: _____ Mussels: _____ Scallops: _____ Other: _____

Number of longlines: Oysters: _____ Mussels: _____ Scallops: _____ Other: _____

Deepwater Seabed Culture:

Table 5 – Deepwater Seabed Production Information

Species	Culture Unit	Number of units	Seed/unit	Expected Production	Grow out Period
☐ Geoduck	☐ Net Panels				
	☐ Pipe				
	☐ Other				
☐ Other					
Dimensions of Culture unit:					

SECTION F: SPECIES AND PRODUCTION SUMMARY

Table 6 – Species and Production Summary Information

Species	**Metric tonnes / year**			
	Beach	Deepwater Suspended	Deepwater Seabed	Total Species Production
Pacific Oyster (*Crassostrea gigas*)				
Gallo Mussel (*Mytilus galloprovincialis*)				
Eastern Blue Mussel (*Mytilus edulis*)				
Western Blue Mussel (*Mytilus trossulus*)				
Japanese Scallop (*Pactinopecten yessoensis*)				
Manila Clam (*Tapes philpinarum*)				
Littleneck Clam (*Prototthaca staminea*)				
Geoduck Clam (*Panope abrupta*)				
Varnish Clam (*Nuttallia obscurata*) (for harvest purposes only – no seeding)				
Other (please specify)				
Other (please specify)				

For Office Use Only

Minimum Site Production
Six year running average of production all species not to be less than $_____ per year (becomes enforceable six years after first licensed).

Maximum Total Site Production For All Species
Maximum production of all species not to exceed _____Metric tonnes/year as shell-on weight averaged over 6 years.