



Call for Expressions of Interest

The Gwaalagaa Naay Corporation is seeking Expressions of Interest in forming a business partnership to cultivate/harvest and market shellfish under the GNC aquaculture license (BC Land File # 6407869). The licensed site is located in Skidegate Inlet, Haida Gwaii, BC in the vicinity of Burnt Island.

The site is licensed for both raft and deep-water long line physical structures. A list of the licensed species is available at the GNC office in Skidegate along with maps, site details, tenure demarcation points, current length of Shellfish Aquaculture License. Discussion regarding the current Management Plan to be arranged.

The applicants will need to provide:

- a comprehensive business plan
- proof of previous business experience and/or fishing/seafood processing in scallop and oyster aquaculture
- proof of financial backing (own money, financial institution, funding programs, debt or equity financing capabilities)
- proof of access to or ownership of work vessel
- proof of access to laborers including divers
- proof of access to seed (letter of seed company commitment)
- an understanding of the risks (ecological, environmental)
- an understanding of the length of time to the first harvest
- agreement to GNC monitoring to assure adherence to DFO Regulations

All applicants must receive information packages. Information packages are available at GNC #3 Raven Centre 888 Highway 16 Skidegate, Haida Gwaii, BC, V0T 1S1, and will be mailed on request.

Submissions: attention Lin Armstrong, GNC Executive Director by August 31, 2017 at 4 pm PST. Or email to gncorp1@gmail.com
Only qualifying bids will be reviewed.

INFORMATION PACKAGE

Expression of Interest - Aquaculture

August 2017

The following checklist constitutes the necessary elements of all applications providing an Expression of Interest to cultivate/harvest and market shellfish under the GNC aquaculture license (BC Land File #6407869).

Applications will only be considered which contain each of the following:

1. A Comprehensive Business Plan
2. Resume setting out details of previous business experience and/or experience with aquaculture, fishing and seafood processing relevant to the proposal.
3. Detailed financial plan, including sources for all capital.
4. Confirmation of access to/ownership of appropriate work vessel.
5. Detailed staffing plan, with key personnel identified
6. Confirmation of access to seed from provider.
7. Detailed environmental risk assessment.
8. Time line to first harvest.
9. Letter confirming applicant agreement to GNC monitoring for the purpose of assuring adherence to Department of Fisheries and Oceans Regulations.

Thank you.



Shellfish Aquaculture Licence under the *Fisheries Act*

Licence For: Aquaculture
Licence No: AQSF 114565 2016
ISSUED TO: Gwaalagaa Naay Corporation

Date Issued: May 01, 2016
Expiry Date: Apr 30, 2025

PO Box 1297
Skidegate, British Columbia V0T 1S1

This licence is issued under the authority of the *Fisheries Act* and confers, subject to provisions of the *Fisheries Act* and Regulations made there under, the authority to carry out aquaculture activities including cultivation and harvest of fish and prescribed activities under the conditions included herein and/or attached hereto.

It is the responsibility of the licence holder to obtain all other forms of authorization from federal or provincial agencies that may have jurisdiction for marine shellfish aquaculture facilities. As well, it is the licence holder's responsibility to be informed of, and comply with, the *Fisheries Act* and the regulations made there under, in addition to these conditions.

This licence, or a copy of this licence shall be kept on site at the licensed facility and be available for inspection by a Fishery Officer or Fishery Guardian.

The above licence holder is authorized by this licence to carry on the business of aquaculture at the following location and for the following species:

| Facility Reference Number | Location and Legal Description |
|---------------------------|---|
| 1916 | Skidegate Inlet, vicinity Burnt Island Unsurveyed Crown foreshore or land covered by water being part of the bed of Kagan Bay, Queen Charlotte District. Land File 6407869 PFMA: 2-1 |





Licensed Species

1. Eastern Blue Mussel (*Mytilus edulis*)
2. Gallo Mussel (*Mytilus galloprovincialis*)
3. Giant Rock Scallop (*Crassadoma gigantea*)
4. Japanese Scallop (*Mizuhopecten yessoensis*)
5. Pacific Oyster (*Crassostrea gigas*)
6. Pacific Scallop (*Patinopecten caurinus x yessoensis*)
7. Pink Scallop (*Chlamys rubida*)
8. Spiny Scallop (*Chlamys hastata*)
9. Weather vane Scallop (*Patinopecten caurinus*)
10. Western Blue Mussel (*Mytilus trossulus*)

Site Specific Conditions:

This licence has no site-specific conditions.

Required Record Keeping and Reporting: Details are contained within the attached conditions of this licence.

Compliance Advisory: No person carrying out any activity under the authority of this licence shall contravene or fail to comply with any condition of this licence.

This licence includes further conditions that are included herein and/or attached hereto. These conditions form part of the licence and may not be removed.





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Shellfish Aquaculture Interim Site Management Plan 2010-2012

The purpose of this Interim Site Plan, when completed, is to reflect the details of your operations as currently licensed by DFO.

| | | |
|--|---|-------------------------------------|
| Section A: General Information | | |
| Name (in full) of Licence Holder(s): | | Telephone Number: (250) 559-0014 |
| Gwaalagaa Naay Corporation | | Fax: (250) 559-0013 |
| Mailing Address: | | |
| Email Address: gncorp1@gmail.com | | |
| Name of Company (if applicable): | | Alternate Telephone number: () |
| | | Fax: () |
| Contact Name (if different from above): | | Telephone Number: (604) 862-3957 |
| JAMES D COWPAR | | Fax: () |
| Company signing Authority: | Previously submitted to DFO (✓) | |
| | New or amended form attached () | |
| Type of Submission: Interim Site Plan Renewal as currently licensed by DFO (✓) | | |
| Interim Site Plan Amendment as was approved by BC in 2010 ()* | | |
| (* see Guide explanation) | | |
| General Location of Licensed Area: | Private Land | |
| SKIDEGATE INLET, VICINITY BURNT ISLAND | yes _____ no _____ | |
| Legal description of Licensed Area: | DFO Area and Subarea: | |
| SKIDEGATE INLET, VICINITY BURNT ISLAND | 14-01 | |
| Government Reference Numbers | | |
| Landfile Number # 604 6407869 | DFO Aquaculture Licence # AQSF 1916 2010 | Site Reference # 1916 |
| Culture Type: (indicate all that apply) | | |
| Intertidal () | Subtidal Seabed () | Deepwater Suspended (✓) |
| | | Hatchery () |
| Near Bottom () | Other (explain) (): _____ | |



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1.5 Physical Structures: Check all of the structure types that are currently in use at the Licensed Area in 2011.

Table 5. Physical Structures Details:

| Check | Physical Structures |
|-------------------------------------|---|
| <input type="checkbox"/> | Predator Netting (Intertidal beach) |
| <input type="checkbox"/> | Predator Netting (Subtidal sea bottom) |
| <input type="checkbox"/> | Predator Netting (Suspended culture) |
| <input type="checkbox"/> | Predator protection : Tubes or Pipes |
| <input checked="" type="checkbox"/> | Rafts with trays or other containment methods |
| <input type="checkbox"/> | Work Floats (for product or gear handling or storage etc) |
| <input type="checkbox"/> | Floating Upwelling Systems (FLURSYs) |
| <input checked="" type="checkbox"/> | Long lines with trays or other containment methods |
| <input type="checkbox"/> | Rock Walls |
| <input type="checkbox"/> | Vexar fencing |
| <input type="checkbox"/> | Berms |
| <input type="checkbox"/> | Trenches |
| <input type="checkbox"/> | Anchors |
| <input type="checkbox"/> | Site Marking blocks or other |
| <input type="checkbox"/> | Floating Living Accommodation |
| <input type="checkbox"/> | Rack and Bag systems |
| <input type="checkbox"/> | Other (describe): |
| <input type="checkbox"/> | Other (describe): |
| <input type="checkbox"/> | Other (describe): |

SECTION D: INFRASTRUCTURE INSPECTION AND MAINTENANCE

1. Describe the measures that you will take to prevent the loss of culture gear from the Licensed Area including lines, floats, rafts, netting, trays and any other equipment.

DAILY & WEEKLY INSPECTIONS OF GEAR AT SURFACE, 6 MONTHLY - ANNUAL ANCHORAGE CHECKS (DIVER)

2. Describe your lost gear recovery plan.

COLLECTION USING FARM WORK VESSELS, AT SURFACE, DIVERS USED IF NECESSARY



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additional information prior to amending your DFO Aquaculture Licence. Please indicate in the check boxes below if you have a species amendment pending DFO approval. Until such time, you are authorized to culture and harvest only those species listed on your current licence.

1.1. Intertidal Beach Culture

Intertidal beach culture means the area between high tide and chart datum.

Intertidal Area Summary:

Culture Area: _____ hectares

Total For all species:

Maximum Possible Annual Stocking: _____ metric tonnes (mt)

Current Year Production estimate: _____ metric tonnes (mt)

Table 1. Intertidal Area Details by Species:

| Licensed By DFO (check) | Species Common Name | Species Scientific Name | Current Year Production Estimate (mt) | BC Amendment in Sept-Dec 2010 (check) |
|-------------------------------|---------------------------|-----------------------------------|---|---|
| <input type="checkbox"/> | Butter Clam | <i>Saxidomus giganteus</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Geoduck Clam | <i>Panope abrupta</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Kumamoto Oyster | <i>Crassostrea sikamea</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Littleneck Clam | <i>Prototheca staminea</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Manila Clam | <i>Tapes philippinerum</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Nuttall's Cockle | <i>Clinocardium nuttallii</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Olympia Oyster | <i>Ostrea conchaphila</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Pacific Oyster | <i>Crassostrea gigas</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Varnish Clam | <i>Nuttallia obscurata</i> | | <input type="checkbox"/> |

1.2 Subtidal Sea Floor Culture

Subtidal sea floor means the area of the sea floor below chart datum.

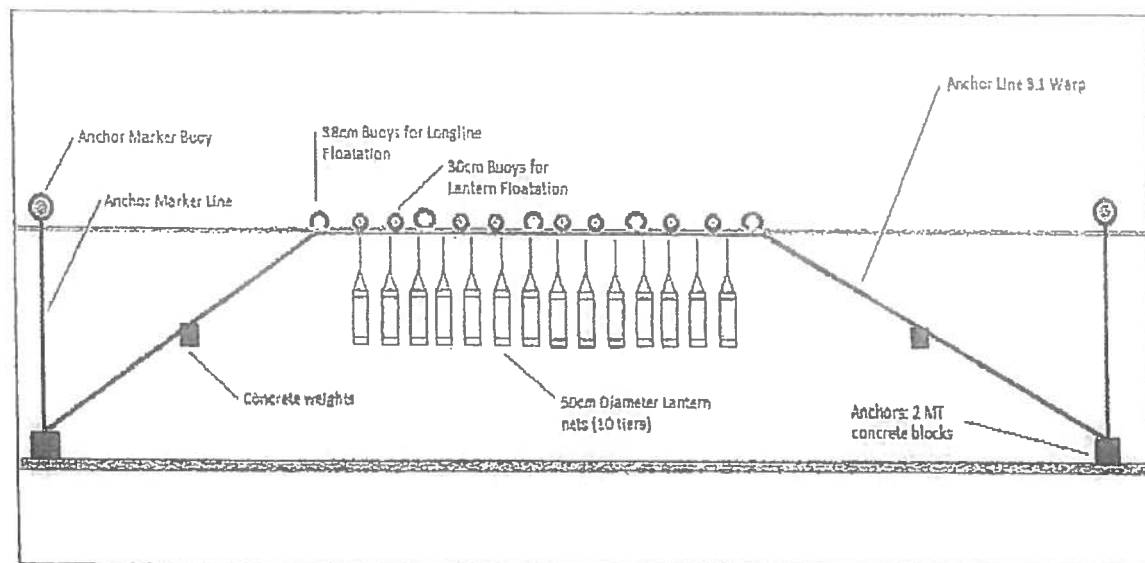
Section B: Description of Equipment Arrangement and Stocking at Burnt Island Site

Development will take place in a graduated fashion and sub-surface longlines will be used (depth of <math><1\text{m}</math>). Development will take place by installing 4 blocks of 180m surface longlines. Longlines will be constructed from 7/8" poly-steel line or equivalent and will be supported by 38cm, pressurized floats at 2m intervals (see diagram Fig.1). 15 metre spacing will be maintained between each longline. The total number of longlines installed will be 56; with 26 in block A, 8 in block B, 8 in block C and 14 in block D (see attached chart 2).

Concrete (lock-block style) 2000 kg anchors will be used at each end of the longlines. The locations of these anchors will be clearly marked with 38cm yellow navigation floats attached by 7/8" poly-steel ropes. Concrete dropper weights will be placed on all anchor lines to provide tension and to keep the anchor line submerged. Anchor lines will be of the same 7/8" poly-steel rope as longlines at the surface, these will be tied directly through stainless steel eyes on anchor blocks. The corners of the longline grid lines will be clearly marked with 80cm yellow navigational buoys and navigation lights if required by Transport Canada.

Each long line will be seeded with 250 50cm diameter lantern nets, each containing 10 tiers. At initial stocking (estimated 10 million seed, 2012) 2000 seed scallops will be contained within each lantern (20 longlines in use). After a period of 4 months stock will be spread to 600 pieces per lantern therefore filling the full 56 longlines. After a further 4 months juvenile scallops will be removed (approx. 45kg /lantern) and transferred to other longline sites for further grow-out to a market size of 110mm shell height. 30cm pressurized buoys will be used for additional buoyancy along the long lines as stock grows and increases in weight.

Fig.1 – Diagram of Longline Structure (Side view)





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Subtidal Sea Floor Summary:

Culture Area: _____ hectares

Total For all species:

Maximum Possible Annual Stocking: _____ metric tonnes (mt)

Current Year Production estimate: _____ metric tonnes (mt)

Table 2. Subtidal Sea Floor Area Details by Species:

| Licensed By DFO (check) | Species Common Name | Species Scientific Name | Current Year Production Estimate (mt) | BC Amendment in Sept-Dec 2010 (check) |
|--------------------------|-------------------------|-------------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> | California Sea Cucumber | <i>P. californicus</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Geoduck Clam | <i>Panope abrupta</i> | | <input type="checkbox"/> |
| <input type="checkbox"/> | Other: | | | <input type="checkbox"/> |

1.3 Deepwater Suspended Culture

Deepwater suspended culture includes gear such as rafts, longlines, FLUPSY (floating upwelling systems), etc. anchored at the site and suspended off the sea floor.

Deep water suspended summary:

Culture Area: 52.8 hectares

Minimum Depth below Structures at low tide: 14.6 meters

Total For all species:

Maximum Possible Annual Stocking: 600 metric tonnes (mt)

Current Year Production estimate: 0 metric tonnes (mt)

Table 3. Deepwater Suspended Area Details by Species:

| Check Box | Species Common Name | Species Scientific Name | Raft | Long Lines | Flupsy | Other | Current Year Production Estimate (mt) | BC Amendment in Sept-Dec 2010 (check) |
|--------------------------|-------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> | California Sea Cucumber | <i>P. californicus</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Eastern Blue Mussel | <i>Mytilus edulis</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Eastern Oyster | <i>Crassostrea virginica</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | European Oyster | <i>Ostrea edulis</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |



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SECTION E: DOMESTIC WASTE MANAGEMENT

NOTE: Under the Conditions of the 2010 federal Shellfish Aquaculture Licence, bivalve shellfish (clams, oysters, mussels, scallops) may not be cultivated, stored, or harvested within 125 m of any floating living accommodation unless:

- the cultivated bivalves are seed, and
- a licence under Management of Contaminated Fisheries Regulations has been obtained for the licensed area to harvest seed from a prohibited area; or
- An approved Zero-Discharge Management Plan is in place that reduces the prohibited harvest area to 25m (see Appendix VII of Conditions of Licence).

1. If there is there floating living accommodation on the Licensed Area, is there an approved zero waste discharge management plan for this site.

Yes () No () Not applicable ()

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

SANITARY FACILITIES ON BOARD WORK VESSELS OR
AT NEAREST HARBOUR USED, NO DISCHARGE NEAR SITE

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

ALL WASTE MATERIALS WILL BE RETURNED FOR ON-LAND
DISPOSAL AT APPROVED LOCATIONS.

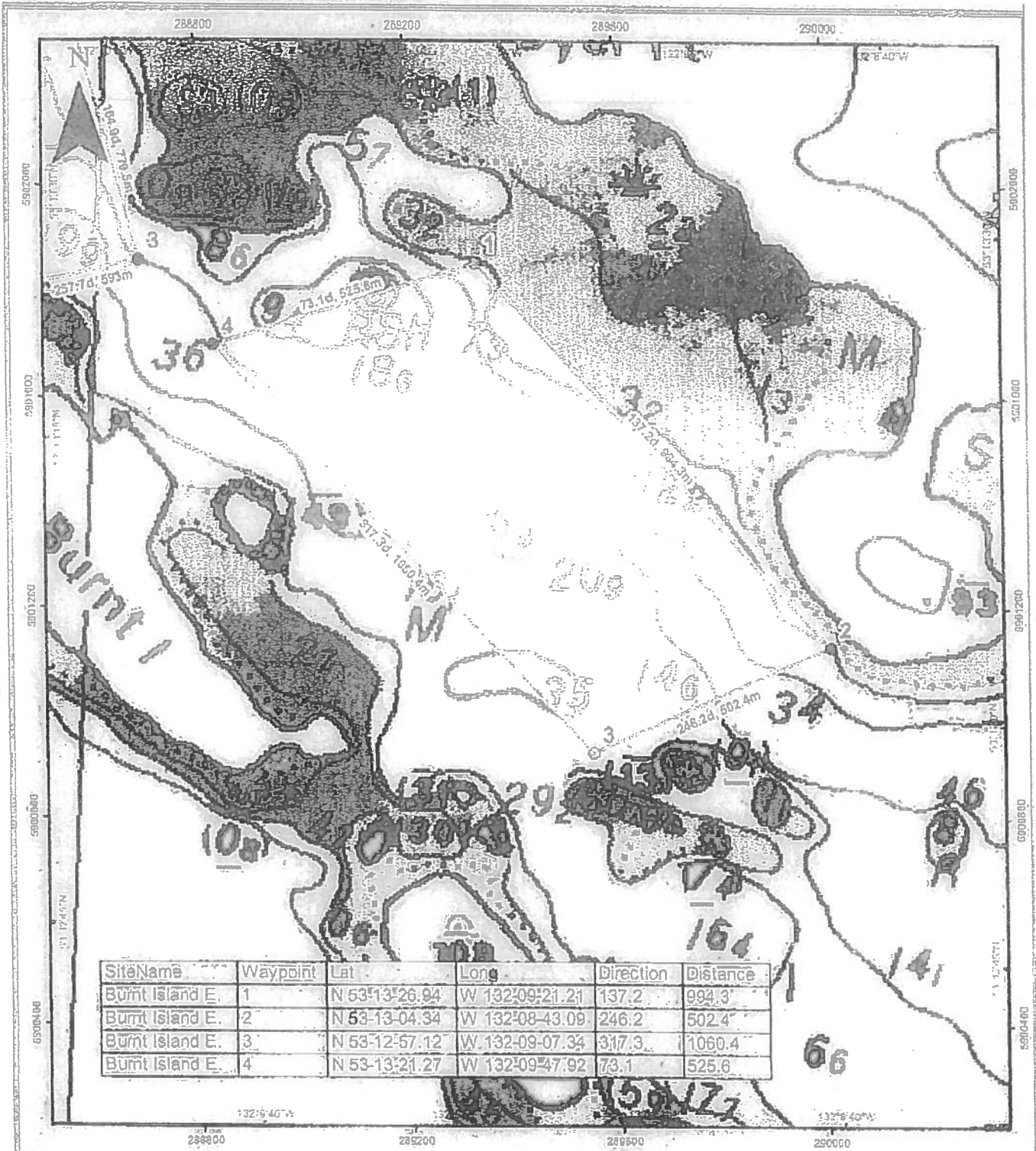


CHART 1 - SITE LOCATION

BURNT ISLAND EAST

Blue Revolution
Consulting Group Inc



Legend

- ⊙ Tenure Delineation Point
- ▭ Proposed Tenure Area

Jan. 2007

UTM 09 NAD 83

Mapping by: Meridian Mapping Ltd.



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| Check Box | Species Common Name | Species Scientific Name | Raft | Long Lines | Flurry | Other | Current Year Production Estimate (mt) | BC Amendment in Sept-Dec 2010 (check) |
|-------------------------------------|---------------------|----------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> | Gallo Mussel | <i>Mytilus galloprovincialis</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Giant Rock Scallop | <i>Crassadoma gigantea</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Green Sea Urchin | <i>S. droebachiensis</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Japanese Scallop | <i>Patinopecten yessoensis</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input checked="" type="checkbox"/> | Pacific Scallop | <i>Patinopecten</i> x. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | |
| <input type="checkbox"/> | Pink Scallop | <i>Chlamys rubida</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Red Sea Urchin | <i>S. franciscanus</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Spiny Scallop | <i>Chlamys hastata</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Spot Prawn | <i>Pandalus platyceros</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Weathervane Scallop | <i>Patinopecten caurinus</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Western Blue Mussel | <i>Mytilus trossulus</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | Other: | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

1.4. Shellfish Hatchery Operations

Does this site have a marine water intake? () yes () no

Does this site have a marine outfall? () yes () no

Land file number of Intake / Outfall, if applicable: _____

Total For all species:

Maximum Possible Annual Stocking: _____ metric tonnes (mt)

Current Year Production estimate: _____ metric tonnes (mt)

Table 4. Shellfish Hatchery Details by Species:

| Licensed By DFO (check) | Species Common Name | Species Scientific Name | Current Year Production Estimate (mt) OR | Current Year Production (estimated number) |
|--------------------------|---------------------|----------------------------|--|--|
| <input type="checkbox"/> | Butter Clam | <i>Saxidomus giganteus</i> | | |
| <input type="checkbox"/> | Geoduck Clam | <i>Panope abrupta</i> | | |

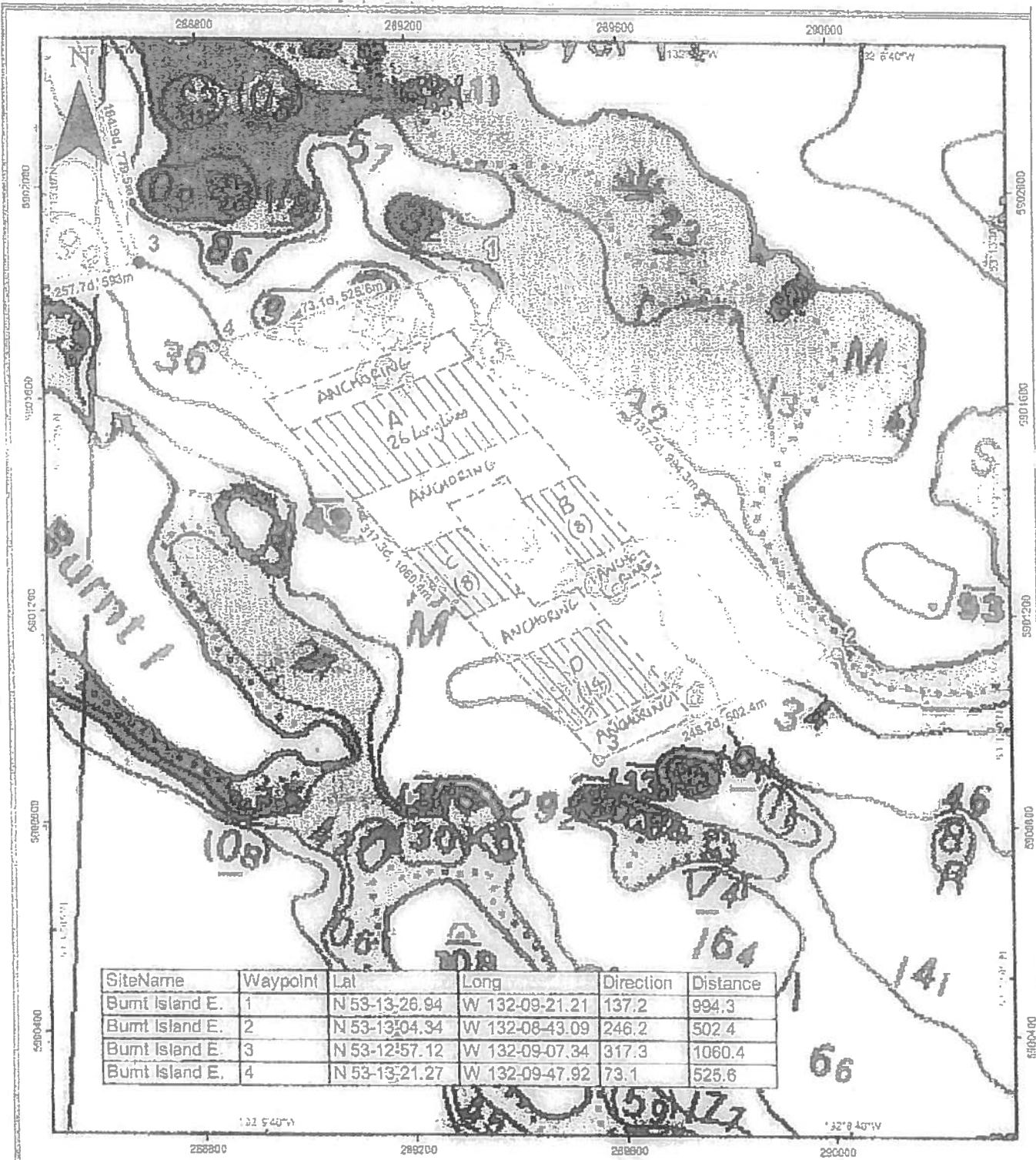


CHART Z - SITE LAYOUT

BURNT ISLAND EAST

Blue Revolution
Consulting Group Inc



Legend

- Tenure Demarcation Point
- ▭ Proposed Tenure Area

Jan. 2007

UTM 09 Nad 83

Mapping by: Meridian Mapping Ltd.



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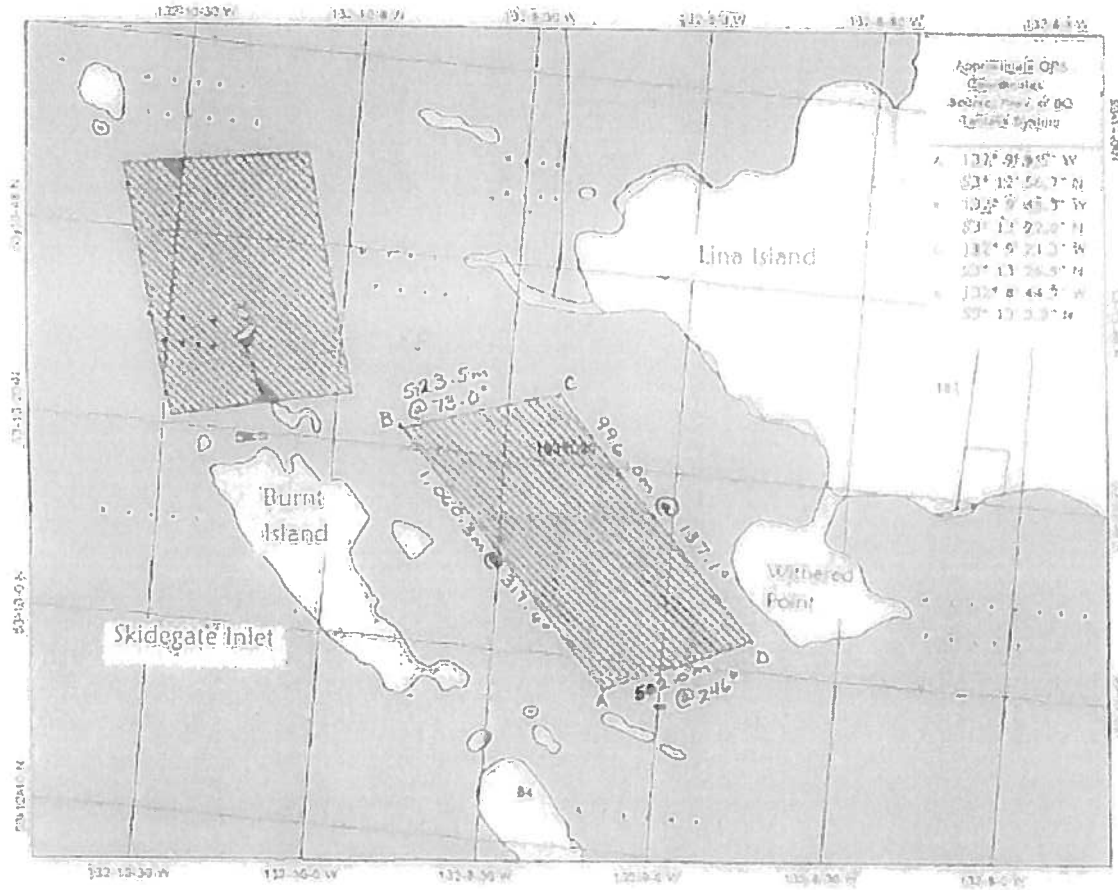
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| Licensed By DFO (checkbox) | Species Common Name | Species Scientific Name | Current Year Production Estimate (mt) OR | Current Year Production (estimated number) |
|----------------------------------|----------------------------|--------------------------------------|--|---|
| <input type="checkbox"/> | Kumamoto Oyster | <i>Crassostrea sikamea</i> | | |
| <input type="checkbox"/> | Littleneck Clam | <i>Protothaca staminea</i> | | |
| <input type="checkbox"/> | Manila Clam | <i>Tapes philippinarum</i> | | |
| <input type="checkbox"/> | Nuttall's Cockle | <i>Clinocardium nuttallii</i> | | |
| <input type="checkbox"/> | Olympia Oyster | <i>Osrea conchaphila</i> | | |
| <input type="checkbox"/> | Pacific Oyster | <i>Crassostrea gigas</i> | | |
| <input type="checkbox"/> | Varnish Clam | <i>Nuttalia obscurata</i> | | |
| <input type="checkbox"/> | California Sea Cucumber | <i>P. californicus</i> | | |
| <input type="checkbox"/> | Eastern Blue Mussel | <i>Mytilus edulis</i> | | |
| <input type="checkbox"/> | Eastern Oyster | <i>Crassostrea virginica</i> | | |
| <input type="checkbox"/> | European Oyster | <i>Osrea edulis</i> | | |
| <input type="checkbox"/> | Gallo Mussel | <i>Mytilus galloprovincialis</i> | | |
| <input type="checkbox"/> | Giant Rock Scallop | <i>Crassadoma gigantea</i> | | |
| <input type="checkbox"/> | Green Sea Urchin | <i>S. droebachiensis</i> | | |
| <input type="checkbox"/> | Japanese Scallop | <i>Patinopecten yessoensis</i> | | |
| <input type="checkbox"/> | Pacific Scallop | <i>Patinopecten</i> x. | | |
| <input type="checkbox"/> | Pink Scallop | <i>Chlamys rubida</i> | | |
| <input type="checkbox"/> | Red Sea Urchin | <i>S. franciscanus</i> | | |
| <input type="checkbox"/> | Spiny Scallop | <i>Chlamys hestata</i> | | |
| <input type="checkbox"/> | Spot Prawn | <i>Pandalus platyceros</i> | | |
| <input type="checkbox"/> | Weathervane Scallop | <i>Patinopecten caurinus</i> | | |
| <input type="checkbox"/> | Western Blue Mussel | <i>Mytilus trossulus</i> | | |
| <input type="checkbox"/> | Other: | | | |

Schedule A

LEGAL DESCRIPTION SCHEDULE

Unsurveyed Crown foreshore or land covered by water being part of the bed of Kagan Bay, Queen Charlotte District, shown outlined on sketch below, containing 48.0 hectares, more or less.

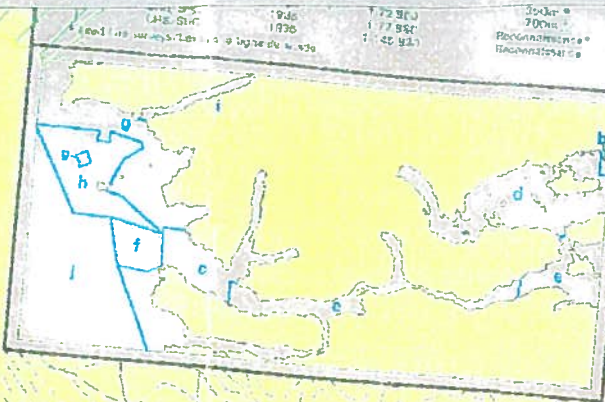


| Cast. Point in Dairel as | 0.8 km (0.5 mi) west of Mid Bayton 0.8 km (0.5 mi) à ouest de la baie de mi-bayton | 1.5 km (0.9 mi) ouest de Mid Bayton | Frontière Inlet est de la baie de Narrows |
|-----------------------------|--|---|---|
| 2.9 | 3.0 | 2.7 | 2.9 |
| 6.0 | 4.0 | 3.3 | 2.4 |
| 7.0 | 4.9 | 3.9 | 3.9 |

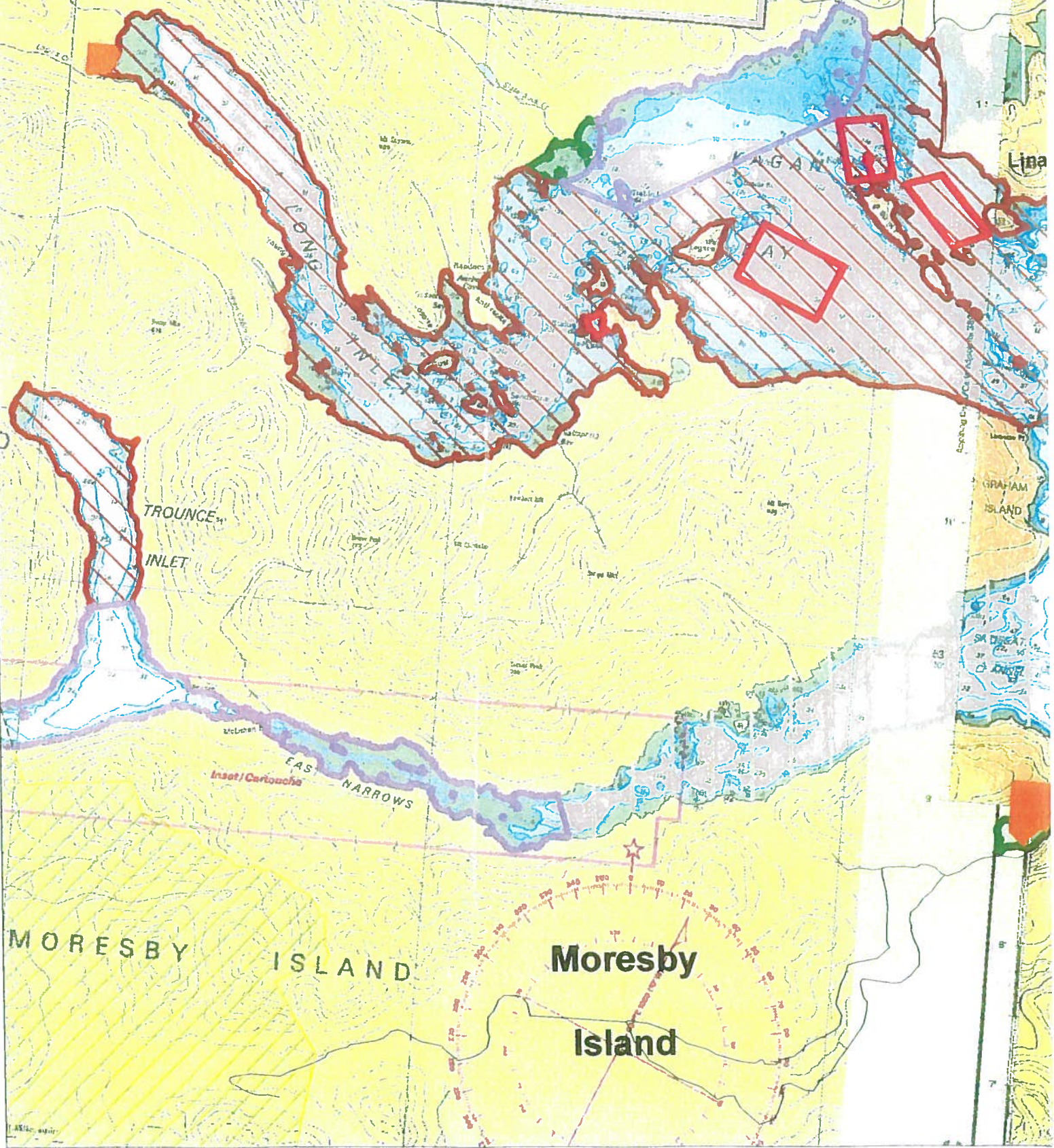
À la distance est, l'île se prolonge environ 150 à 200 m au-delà de la pointe ouest de Queen Charlotte City.

À la distance ouest, l'île se prolonge environ 25 à 30 m au-delà de la pointe est de Queen Charlotte City.

Les contours de la carte à la section sont basés sur les données de la carte de la section 7.



Graham Island



Moresby Island

Moresby Island

Lina

GRAHAM ISLAND

SK. DUREAT

ANZ

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7