

2009 BROODSTOCK COLLECTION LICENCE

This Scientific Licence is issued under the authority of the Fisheries Act, R.S.C. 1985, Chapter F-14.

Licence Number: XBI 4 2009

Commence Date: 29 May 2009

Expiry Date: 29 Aug 2009

Purpose: Geoduck Broodstock Collection

Licensee:

MARK DAN MCDERMID

1525 WEST 29TH AVE

VANCOUVER BC V6J 2Z1

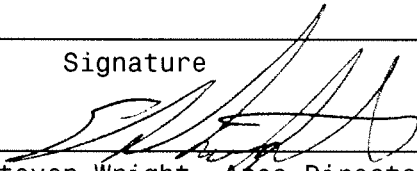
Phone: 604-732-4622

Assisted by: Sean Wayne Williams, using the unlicensed vessel "Abrupt One" registered as 14K22095

Second vessel, Navigator, BC1655729

This licence is subject to the terms and conditions that are included herein and/or attached hereto. These conditions are part of the licence and may not be removed. This licence is not valid until read and signed by the licensee.

Licensee:

	Date
Signature	
	Jun 3/09
Steven Wright, Area Director	Date
Fisheries and Oceans Canada, Pacific Region	

Species and Catch Limits:

Species	Catch Limit / Comment
Geoduck Clam	200 Pieces

Collection Methods / Gears:

DIVE

Standard Geoduck Harvest Equipment

Areas:

Areas:

SOUTH COAST

A portion of the Strait of Georgia Shellfish

Transfer Zone:

Subareas 15-1, 15-2 and 15-3;

Subareas 16-2, 16-11 and 16-18;

Subareas 17-5 and 17-6.

Excluding sanitary, biotoxin and fishery management closures (see

<http://www.pac.dfo-mpo.gc.ca/fm-gp/contamination/index-eng.htm>

and attached maps).

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Reporting Requirements:

Within 6 Weeks of Close of Project

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This licence was prepared by: Juanita Rogers

Dated: 28 May 2009

Licence Serial No.: 262268

Terms and Conditions

The collection is part of a joint project between BC Pacific Oysters Ltd and the Centre for Aquaculture and Environment Research (CAER) in West Vancouver BC, project lead Scott McKinley and assistant Jesse Ronquillo.

A DFO-approved Observer, Sean Williams of 3453 FALCON DRIVE NANAIMO BC V9T 4G7, shall be on board when harvesting is taking place, to document the location of harvest by completion of dive data logsheets. Logsheets are to be completed on-board the harvest vessel prior to landing geoduck. A sample logsheet is attached as Appendix 1.

The Observer shall collect and document morphometric data including shell length, wet weight and quality assessment, and photograph all animals collected. This information is to be forwarded to R. Harbo, Fisheries and Oceans Canada, 3225 Stephenson Point Road, Nanaimo BC V9T 1K3 within 30 days of the collection. Data collection information is included in Appendices 2 and 3.

Genetic samples are required from at least 25 animals from the authorized harvest area. The samples from each harvest site should be grouped and labelled separately. Samples are to be sent to DFO at the end of the project. Sample protocol and contacts are provided in Appendix 4.

Geoducks collected under authority of this licence may be held at the Centre for Aquaculture and Environment Research, 4160 Marine Drive, West Vancouver, BC).

When the geoduck are of no further use for the hatchery procedures, they are to



be disposed of in a method that satisfies Environment Canada regulations for disposal of fish and fish waste. Environment Canada does not allow disposal at-sea and therefore recommends that fish waste be either (1) disposed of at a municipal land-based disposal facility, or (2) disposed of through a reduction facility.

The DFO Office responsible for the area in which fishing takes place shall be notified on each occasion prior to the collection of samples. Notification shall occur by telephone during normal business hours. If you are unable to notify the local office on evenings or weekends, advise the DFO Radio Room at 1-800-465-4336 prior to sampling.

Copies of this licence must accompany the collecting personnel, be on board any collecting vessel, be carried with the transport vehicle at all times during collection and transport of samples and shall be present in the holding area or hatchery. The original, signed licence must be produced upon the request of a Fishery Officer or Guardian.

The collection of bivalves from areas closed for PSP (red tide), ASP (domoic acid) or bacterial contamination under the Management of Contaminated Fisheries Regulations is not authorized by this licence. Check with the local DFO office or on the internet for closure information immediately prior to sampling.

Closure information is available on the internet at:

[http://www.pac.dfo-mpo.gc.ca/ops/fm/shellfish/Biotoxins/closures/default\\_e.htm](http://www.pac.dfo-mpo.gc.ca/ops/fm/shellfish/Biotoxins/closures/default_e.htm)

Specimens retained under the authority of this licence may not be utilized, sold or processed for food or bait.

A Section 56 Fishery (General) Regulations Permit is required for the transfer of live specimens between marine areas, or to holding tanks which discharge to marine waters. The licence holder is required to make application to the Federal/Provincial Introductions and Transfers Committee. Contact numbers and application forms are available from their website:

[http://www-heb.pac.dfo-mpo.gc.ca/intro\\_trans/transfers\\_e.htm](http://www-heb.pac.dfo-mpo.gc.ca/intro_trans/transfers_e.htm)

Seed or spat generated by the hatchery broodstock program may be outplanted only in accordance with the "Interim Geoduck Aquaculture Policy, September 3, 1998" which has been made public as a DFO notice to industry OC753. That policy provides for seeding on intertidal portions of leases or tenures licensed for geoduck culture and for rearing and grow-out suspended in the water column within leases and tenures licensed by the province for geoduck culture. A Transplant Permit from the federal/provincial Introductions and Transfers Committee is required before seed or spat may be outplanted into fish habitat.

Specimens caught and retained under authority of this licence may not be shipped or provided to any party not named on this licence.

This licence may be revoked or amended by the Department prior to the expiry date as may be considered necessary by the Department.

See attached documents.