HATCHERY DEVELOPMENT PLAN

OPERATION
\mathbf{SI}
MARINE
FRESHWATER
17

OPERATION IS WATER BASED |_| LAND BASED |_| (Check appropriate boxes)

ice Use Only	FEDERAL HARBOUR OR PORT (HP) _ PRIVATE UPLAND OR FORESHORE (PR) _ NATIVE RESERVE (NR) _ PROVINCIAL PARK (PP) _ FEDERAL PARK (FP) _	If NO indicate one of the following:	OPERATION IS ON PROVINCIAL CROWN LAND YES _ NO _	(home)	Telephone: (604) 885-4688 (office) (604) 885-7949 (FAX)	Postal Code: YON 3AO	Sechelt BC v (street)	7333 Sechelt Inlet Road	Address: P.O. Box 157 Madeira Park	Name of Applicant: larget Marine Hatcheries
	500 283491	COUFITENAY B.C.	JUL - 2 1999	BRITISH COLUMBIA Ministry of Fisheries	19 (FAX)	×			VON 2HO (mailing)	s Ltd.

Office Use Only

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MCL File No.

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Ministry of Agriculture and Fisheries

Ministry of Crown Lands

JULY, 1990

ALL APPLICANTS MUST COMPLETE SECTIONS A, B, and C

APPLICANTS MUST COMPLETE THE FOLLOWING SECTIONS AS THEY APPLY.

For a Freshwater Operation complete Section D.

For a Marine Operation complete Section E.

operation. Operations. All sections of this plan must be completed as they apply to your proposed operation. Consult Aquaculture Development Guide No. 3, Hatchery

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	d)	c	b)	of (II	a)	5.	4.		2.	
contained inside a building	What types of predators may be encountered? birds	The site is used or proposed for log handling or other use: YesNoUnknown (Information sources: Regional Districts; Regional Lands Offices)	The site fronts or lies beside private property: Yes No No If yes, state location and usage of property _o\ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(Information sources: Regional Districts; Regional Lands Office, Ministry of Forests)	The site is zoned for aquaculture: Yes No If no, describe current plan and zoning designations, if any:	INFORMATION RELATED TO OTHER RESOURCE USES	Total Area of Site 14.62 hectares	Geographical Description (see Guide):	Legal Description of Site (Land District & Lot Number) Sた つ.に、1410 Plan 47189 Lots 5-8	NTS Map No or CHS Chart No BCGS Map No Geographical Coordinates: N. Latitude: ' "

e)

(Information sources: Yes

Water flowing from the site enters a salmonid-bearing water course:

Yes______ No____ Unknown______

Unknown_

Regional Conservation or Fisheries Officers)

No_

SCHEDULE A

SCHEDULE OF IMPROVEMENTS

List the overall dimensions of all planned structures and their completion times.

Description	Number	Dimensions (in metres)	Area	Completion Date
tanks	Ŋ	~4md x 1.5m 25m	25 m 2	~Sept
building	_	2 2 × 8 3	96 m 3	~ Sept.

		EXAMPLE			
Incubation Building	Н	5 m x 7 m		Jan.	1990
Tanks	10	3 m diam x 1.5 m	71 m2	Mar.	1990

please complete the following: If the hatchery is on aquatic crown land, (ie the hatchery is water based),

production ? What is the minimum area _____ of growout facilities at full

(%) and maximum number What is the maximum area __(m2), maximum percentage of tenure area of growout facilities at full production ?

SECTION B: SCALE OF OPERATION

structures as they apply to your proposed operation: List the number and total capacity of the following culture or rearing

2. 7. 6. 5. 4. <u>ယ</u> 1. Conchocelis Tanks Raceways Setting Tanks Phytoplankton Tanks Larvae Tanks Fish Tanks Incubation Units No. No. No. No. No. No. 126 Total Capacity 2,280 11tres 32 Total Capacity 5 - william eggs Total Capacity Total Capacity Total Capacity 90,000 litres Total Capacity Total Capacity litres litres litres litres

losses; and, d) quantity of smolts or seed expected. At <u>full production for each species</u> describe: a) The number of eggs stocked or larvae produced; b) the expected growth period; c) expected

160,000 smolts	20	6	200,000	Chinook Eggs
		EXAMPLES_		
90,000	C	36	eggs 60,000	white sturgeon eggs 60,000
いくくろ	つつ			
12	0	layes	broad 12	white sturgeon boad
200,000 Smolks	٥٢	11	250,000	Chinook esss
1,500,000 Smolts	25	10-17	2 mill.	Atlantic eggs
500,000 Smalts	50	9	1 mil.	1 coho essos
Soo, COO Smolt	50	00	1 mill.	so como eggs
expected	(8)	(Months)	stocked	Species
Amount	Losses	Growth Period	Amount Gr	

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SECTION C: OPERATIONAL FACILITIES AND LAYOUT

detailed information. information you have provided in this plan. following scale diagrams are required for the proposed Hatchery. drawn or drafted in ink and be consistent with the written Consult the Guide for more They

important habitats, log sorts, log booming grounds, pollution sources, such as other hatcheries, nearby fish farms, area under application, and any resources or other uses in the LOCATION MAP AND RESOURCE USE MAP: Map or Marine Chart showing the salmon-bearing streams, area

OPERATIONAL LAYOUT DIAGRAM: A plan (aerial) view of the proposed site and <u>all</u> hatchery facilities and structures. This <u>scale</u> diagram must clearly illustrate the site boundaries, water source, intake and outlet locations and all proposed buildings and outdoor facilities.

depth contours. operation. Marine based operations must also include wind fetch an current vectors, showing direction and speed, as well as the bottom For water based hatcheries, all floating facilities, anchors, breakwaters, etc. ion. Marine based etc., must be depicted as they would appear in include wind fetch and anchor

discharge. source through the tanks, raceways, etc., must be shown to the point DETAILS OF OPERATION CONSTRUCTION; Details of water flow from the of

intake and discharge pipes must clearly show the floating facilities and all underwater structures For water based hatcheries, including the anchors and anchor rodes, must a side (elevation) view of the facilities be shown in their and the bottom profile.

SECTION D: FRESHWATER OPERATION

source). (Complete this section only if your proposed operation uses a freshwater

WAT	WATER SOURCE
a)	a) Standing water in an excavated pond: Yes No
6)	b) Municipal water supply: Yes No
c)	c) Pumped or gravity flow from a lake , stream
	well, flowing spring
d)	d) Name of waterbody

2. WATER DISCHARGE

e)

Inflow Volume

10 million

litres/day

	Sechelt Inlet	
above	b) Name of waterbody if different from above_	b)
seepage	municipal sewer or 100% ground seepage	
, stream	Water will be discharged to lake, stream	a)

- c) Discharge Volume: 10 w.W. litres/day
- ٥ Treatment by rock filter. method (describe) to ocean _, settling pond_ soci waste management permit or other
- e) Intake _____ or Outlet ____ screens installed.
 (Specify grid size. Note: The Department of Fisheries and Oceans requires that intake and outlet screens must be used if water source is a salmon-bearing stream.)
- f) Distance from discharge to nearest aquaculture facility | O km
- Have you applied for a Water Licence? already exists
- 巴 Have you applied for an Effluent Discharge Permit? already exists

SECTION E: MARINE OPERATION

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this
Complete this section only if
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1 if your
operation
uses
B
seawater
source.)

												W2K1
				2.								MAR
met	c)	b)	a)	MAR				(p	<u>c</u>)	b)	a)	INE
method (describe)	Treatment by filters, settling pond, or other	Discharge Rate litres/day	Depth of Discharge m and Distance from Intake m	MARINE WATER DISCHARGE	Annual max min and mean dissolved oxygen (mg/L) at intake depth.	Annual max min and mean salinity (o/oo) at intake depth.	Annual max min and mean water temperature (°C) at intake depth.	WATER QUALITY:	Depth of Intake: max metres min metres	Intake Volume litres/day	Name of Waterbody	MARINE WATER SOURCE

Have you applied for an effluent discharge permit? __________(Contact the Regional Waste Management Office)

