

**Carino Company Limited**  
**Registration Form**

**Fur Tannery, South Dildo, Newfoundland and Labrador**

---

# **Registration Form**

---

**Carino Company Limited  
South Dildo, NL.**

**31 May, 2002**

## Table of Contents

A.Name of Undertaking .....	1
B.Proponent.....	2
Name of Corporate Body: .....	2
Address:.....	2
Chief Executive Officer: .....	2
Principal Contact Person for purposes of environmental assessment:.....	2
C.The Undertaking.....	3
Nature of the Undertaking.....	3
Purpose / Rationale / Need for the Undertaking .....	3
D.Description of the Undertaking.....	4
Geographical Location: .....	4
Physical Features: .....	4
Construction: .....	4
Operation.....	5
Process.....	5
E.Potential Pollutants .....	6
F.Waste Treatment.....	7
G.Water Supply .....	8
H.Approval of the Undertaking.....	9
I.    Funding .....	10
J.    Appendices.....	11
Analysis of Waste Water from Tanning Process:.....	11
Analysis of Solid Waste from Tanning Process .....	12
Determination of fats, oils and grease content of tannery waste water:.....	13
Site Plan: .....	14

A. Name of Undertaking

---

**Carino Company Limited  
Fur Tannery**

**B. Proponent**

**Name of Corporate Body:**

Carino Company Limited

**Address:**

Mailing Address: P.O. Box 6146,  
St. John's, NL  
A1C 5X8

Processing Plant: P.O. Box 39,  
South Dildo, NL  
A0B 1R0

**Chief Executive Officer:**

Knut. A. Nygaard,  
Managing Director,  
c/o Rieber Skinn A/S,  
Damsgardsvn. 125,  
P.O. Box 990, Sentrum  
N-5808  
Bergen, Norway  
Telephone: 011-47-55-94-42-00  
Facsimile: 011-47-55-94-42-01

**Principal Contact Person for purposes of environmental assessment:**

John C. Kearley  
Accountant  
St. John's, NL

Telephone: (709) 576-0304  
Facsimile: (709) 722-5747

## C. The Undertaking

### Nature of the Undertaking

The existing Carino Company Limited seal processing plant at South Dildo, Newfoundland and Labrador will be expanded to enable the tanning of seal pelts. This operation will process sealskins to the dressed (tanned) stage using a high-tech, environmental friendly process.

### Purpose / Rationale / Need for the Undertaking

Carino Company Limited was incorporated in May 1957 under the laws of the Province of Newfoundland and Labrador. The present shareholders of the Company are as follows:

Rieber Skinn A/S	98%
Knut A. Nygaard	2%

The principal business activity of the Company has been to operate a seal processing facility at South Dildo, Trinity Bay, NL. Carino has been the main purchaser / processor of seal products in Newfoundland and Labrador for the past 45 years.

Carino Company Limited operated a small-scale chrome-based tanning operation at South Dildo for a period ending in 1983. During this time there were no environmental problems and no complaints or mishaps. The process was discontinued mainly for economic reasons (i.e. the importation of finished products into the European market attracted a higher duty than that on raw products, and with virtually no markets in North America all finished skins had to be sold in Europe).

Recently the Government of Newfoundland and Labrador through the Minister of Fisheries and Aquaculture, The Honorable Gerry Reid, has express concerns that the majority of seal pelts landed in the Province are being exported in a raw, unfinished, state. Government's aim is to have more seal pelts landed in the Province further processed to the dress (tanned) stage.

Carino Company Limited has held discussions with the Minister of Fisheries and Aquaculture as well as other officials of his department. In these discussions it was pointed out to the Minister that Carino had been in the process of setting up a fur tannery at their site in South Dildo, Trinity Bay. The first official step in this process being the filing of a registration with the Government of Newfoundland and Labrador, Department of Environment, Environmental Assessment Division.

## D. Description of the Undertaking

### Geographical Location:

The site is located in South Dildo, Trinity Bay, Newfoundland and Labrador<sup>1</sup>, and the boundaries are as follows:

- On the East by the Trinity South Highway and a road leading to the Government wharf.
- On the South by a road leading to the Government wharf.
- On the West by the waters of Dildo Arm.
- On the North by Crown Land.
  
- Provincial District: Bellvue, MHA - The Hon. Percy Barrett, Minister of Works, Services and Transportation.
  
- Provincial District: Trinity – Bay De Verde, MHA – The Hon. Lloyd Snow, Speaker of the House
  
- Federal District: Bonavista, Trinity, Conception, MP - R. John Efford

### Physical Features:

Site is approximately 1.51 hectares and contains seven (7) buildings, as follows:

1. Storage building (storing of various supplies, etc.)
2. Cooker building (rendering of blubber)
3. Salt shed (curing of pelts)
4. Production building (processing of pelts)
5. Sawdust building (storage of sawdust used in production)
6. Office
7. Security office

Site also has a tank farm that contains eighteen (18) metal storage tanks with, these tanks are presently utilized for the storage of seal oil.

### Construction:

It is expected that the production building<sup>2</sup> will be extended to the North. This extension will house parts of the tannery. Other tanning equipment will be installed in the existing production building. It is expected that the construction period for this extension will be in the order of two (2) months. It is not expected that there will be any pollutants during the construction period, including airborne emissions, liquid effluents or solid waste materials.

<sup>1</sup> See appendices for Site Plan

<sup>2</sup> See appendices for Site Plan

## Operation

Carino Company Limited expects to phase in the tanning of seal pelts at South Dildo over a period of approximately 10 years. The start up phase will involve the tanning of approximately 200 seal pelts per day. This number will be steadily increased until approximately 600 seal pelts per day are being tanned.

## Process

The following is a brief description of the process flow:

- Wash, pickle to wet white
- Prepare tanning solution in mixer
- Empty drums and mixer and place on pallets
- Press and shave
- Re-tanning and dyeing in drums
- Set out on machine and hang to dry
- Drum in sawdust
- Stretch
- Finish with buffing and stretching

## E. Potential Pollutants

The main potential pollutants are generally in liquid form from the tanning operation. However, there is also a quantity of solid waste from the tanning operation as well. This solid waste consists mainly of fat / blubber, hair and flesh from the skins. An analysis of the wastewater as well as the solid waste from a tannery in Norway, that utilizes the same process for the tanning of skins, is included in the appendices of this report.

It is estimated that each skin put through the tanning process will generate approximately 35 litres of liquid effluent<sup>3,4</sup> and 200 grams of solid waste<sup>5</sup>.

The analysis on the wastewater from the tannery in Norway as well as the analysis of the solid waste from the same tannery was carried out by "Miljølaboratoriet I Telemark" located in Skien, Norway. Note that this company is accredited by the Norwegian Government and is assigned the "Norwegian accrediting no. P 013".

The analysis of the tannery wastewater for the determination of fats, oils and grease content was carried out by "BLC Leather Technology Centre Ltd." located in Northampton, England. Note that this company has UKAS accreditation and is assigned the registered no. 3514845 (England).

---

<sup>3</sup> See page 9 of appendices for analysis of waste water from similar tannery in Norway

<sup>4</sup> See page 11 of appendices for an analysis of the fats, oil and grease content of the waste water from a similar tannery in Norway

<sup>5</sup> See page 10 of appendices for analysis of solid waste from similar tannery in Norway

**F. Waste Treatment**

According to the *Environmental Control Water and Sewage Regulations* under the *Environment Act* (O.C. 96-254), a person shall not discharge into a body of water sewage or effluent having a pH value less than 5.5 or greater than 9.0

A review of the levels of potential pollutants present in the wastewater<sup>6</sup> indicates that their occurrence will be substantially less than the maximum content provided for in Schedule "A" for the aforesaid regulations.

The maximum content of certain constituents permitted in Schedule "A", for the most part, is measured in milligrams per litre (thousandth of a gram). The measurement of the various constituents contained in the wastewater tested for the most part is measured in micrograms ("μ"), (millionth of a gram).

The following table shows a comparable measurement (gram per litre) of the test results and the maximum levels permitted from Schedule "A"

Constituents	Milligrams/L Permitted	Micrograms/L (μl)Test results	Grams/L Permitted	Grams/L Test results
Boron	5.00	<b>460.00</b>	0.00500	<b>0.0004600</b>
Cadmium	0.05	<b>5.80</b>	0.00005	<b>0.0000058</b>
Chromium	1.00	<b>24.00</b>	0.00100	<b>0.0000240</b>
Copper	0.30	<b>18.00</b>	0.00030	<b>0.0000180</b>
Iron	10.00	<b>435.00</b>	0.01000	<b>0.0004350</b>
Nickel	0.50	<b>11.00</b>	0.00050	<b>0.0000110</b>
Lead	0.20	<b>12.00</b>	0.00020	<b>0.0000120</b>
Zinc	0.50	<b>193.00</b>	0.00050	<b>0.0001930</b>

The proteolytic active material, which will be used during the pickling and washing of the skins, will be treated with sodium bicarbonate to elevate its pH value to comply with the regulation before it is released.

<sup>6</sup> See appendices for analysis of waste water

**G. Water Supply**

The Government of Newfoundland and Labrador through the Department of Municipal and Provincial Affairs supplies water to the existing plant. It is expected that this supply will also be available for the tanning process.

As previously noted the tanning process utilizes approximately 35 litres of water per skin. With production levels to range between 200 and 600 skins per day, the volume of water required will range from a low of 7,000 to a high of 21,000 litres per day.

## H. Approval of the Undertaking

- The site is not within a Municipality, therefore, municipal permits will not be required.
- The site is on a protected roadway, however, a permit will not be required as the expansion will take place outside the protected boundaries of the roadway.
- The existing facility is already supplied fresh water from the Dildo Fresh Water System. We have held preliminary discussions with a representative of the Department of Municipal and Provincial Affairs, Government of Newfoundland and Labrador, this department has the responsibility for the water supply, concerning the increased usage. We have been advised, verbally, that they do not anticipate any problems in this regard.

**I. Funding**

The main source of funding will be private capital. Funding will be requested from Human Resources Development Canada to assist in the training of staff. Assistance from the Atlantic Canada Opportunities Agency in the form of a repayable contribution will also be requested.

---

Date

Knut A. Nygaard, Managing  
Director  
Chief Executive Officer

## J. Appendices

## Analysis of Waste Water from Tanning Process:

<p>Rieber Skinn A/S            Knut A. Nygaard            Damsgårdsvn.125 Pb.990 Sentrum            5808 BERGEN</p>																																									
1) Solberg Garveri		Prøven(e) ankommet: 180202 Prøven(e) tatt ut: Prøven(e) ferdig analysert: 110302																																							
Analysenr.	Analysenavn	Enhetsnavn																																							
		392																																							
		1																																							
<table border="1"> <tr> <td>BOF-MA</td> <td>mgO/l</td> <td>5625</td> </tr> <tr> <td>KOF-CR-P</td> <td>mgO/l</td> <td>15020</td> </tr> <tr> <td>PH</td> <td>pH</td> <td>4.48</td> </tr> <tr> <td>TØR-SUS</td> <td>mg/l</td> <td>2380</td> </tr> <tr> <td>AL-IAES</td> <td>µg/l</td> <td>110</td> </tr> <tr> <td>B-IAES</td> <td>mg/l</td> <td>0.46</td> </tr> <tr> <td>CD-IMS</td> <td>µg/l</td> <td>5.8</td> </tr> <tr> <td>CR-IMS</td> <td>µg/l</td> <td>24</td> </tr> <tr> <td>CU-IMS</td> <td>µg/l</td> <td>18</td> </tr> <tr> <td>FE-IAES</td> <td>µg/l</td> <td>435</td> </tr> <tr> <td>NI-IMS</td> <td>µg/l</td> <td>11</td> </tr> <tr> <td>PB-IMS</td> <td>µg/l</td> <td>12</td> </tr> <tr> <td>ZN-IAES</td> <td>µg/l</td> <td>193</td> </tr> </table>			BOF-MA	mgO/l	5625	KOF-CR-P	mgO/l	15020	PH	pH	4.48	TØR-SUS	mg/l	2380	AL-IAES	µg/l	110	B-IAES	mg/l	0.46	CD-IMS	µg/l	5.8	CR-IMS	µg/l	24	CU-IMS	µg/l	18	FE-IAES	µg/l	435	NI-IMS	µg/l	11	PB-IMS	µg/l	12	ZN-IAES	µg/l	193
BOF-MA	mgO/l	5625																																							
KOF-CR-P	mgO/l	15020																																							
PH	pH	4.48																																							
TØR-SUS	mg/l	2380																																							
AL-IAES	µg/l	110																																							
B-IAES	mg/l	0.46																																							
CD-IMS	µg/l	5.8																																							
CR-IMS	µg/l	24																																							
CU-IMS	µg/l	18																																							
FE-IAES	µg/l	435																																							
NI-IMS	µg/l	11																																							
PB-IMS	µg/l	12																																							
ZN-IAES	µg/l	193																																							
Analysenavn	Beskrivelse	Metode	Akkrediteret																																						
BOF-MA	Bioeksemisk oksygenforbruk, manometrisk, 7 døgn	NS-4758/1	Ja																																						
KOF-CR-P	Kjemisk oksygenforbruk, dikromat, pot. titrering	NS-4748/2mod	Ja																																						
PH	pH ved 25°C	Intern	Ja																																						
TØR-SUS	Suspendert tørstoff	NS-4733/2	Ja																																						
AL-IAES	Aluminium, syrekonservert, ICP-AES	ICP-AES	Ja																																						
B-IAES	Bor, syrekonservert, ICP-AES	ICP-AES	Ja																																						
CD-IMS	Kadmium, syrekonservert, ICP-MS	ICP-MS	Ja																																						
CR-IMS	Krom, syrekonservert, ICP-MS	ICP-MS	Ja																																						
CU-IMS	Kobber, syrekonservert, ICP-MS	ICP-MS	Ja																																						
FE-IAES	Jern, syrekonservert, ICP-AES	ICP-AES	Ja																																						
NI-IMS	Nikkel, syrekonservert, ICP-MS	ICP-MS	Ja																																						
PB-IMS	Bly, syrekonservert, ICP-MS	ICP-MS	Ja																																						
ZN-IAES	Sink, syrekonservert, ICP-AES	ICP-AES	Ja																																						

Kontor · Office: Rødmyrlia 14  
 3735 Skien

Postadresse · Postal address:  
 Postboks 2502  
 N-3702 Skien

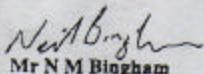
Telefon · Telephone:  
 +47 35 50 56 00  
 Telefax · Telefax:  
 +47 35 50 56 20

E-mail:  
 rodmyr@online.no  
 Org.nr.  
 976 161 777

## Analysis of Solid Waste from Tanning Process

SOLBERG GARVERI FAX 47-35522365		PAGE 02		
<b>MILJØLABORATORIET</b> <b>I TELEMARK</b>		Side: 1(2) Dato: 06.02.02 Prosjekt:		
Solberg Garveri Reidar Solberg Raulandsveien 25 3723 Skien				
1) Falseprøve		Prøven(e) ankommet: 160102 Prøven(e) falt ut: Prøven(e) ferdig analysert: 060202		
Analysen	Enhet	131		
AL-OT-IAES	mg/kg TV	162		
B-OT-IAES	mg/kg TV	<10		
CD-OT-ETAA	mg/kg TV	0.8		
CR-OT-IAES	mg/kg TV	52		
CU-OT-IAES	mg/kg TV	13		
FE-OT-IAES	mg/kg TV	2172		
NI-OT-IAES	mg/kg TV	2		
PB-OT-ETAA	ng/kg TV	25		
ZN-OT-IAES	mg/kg TV	67		
Analysen	Beskrivelse	Metode	Akkrediterat	
AL-OT-IAES	Aluminium, oppslutet, ICP-AES	ICP-AES	Ja	
B-OT-IAES	Bor, oppslutet, ICP-AES	ICP-AES	Ja	
CD-OT-ETAA	Kadmium, oppslutet, ET-AAS	NS-4781/1	Ja	
CR-OT-IAES	Krom, oppslutet, ICP-AES	ICP-AES	Ja	
CU-OT-IAES	Kobber, oppslutet, ICP-AES	ICP-AES	Ja	
FE-OT-IAES	Jern, oppslutet, ICP-AES	ICP-AES	Ja	
NI-OT-IAES	Nikel, oppslutet, ICP-AES	ICP-AES	Ja	
PB-OT-ETAA	Bly, oppslutet, ET-AAS	ICP-AES	Ja	
ZN-OT-IAES	Sink, oppslutet, ICP-AES	NS-4781/1	Ja	
		ICP-AES	Ja	
Kontor - Office: Rødmyrlia 14 3735 Skien		Postadresse Postal address: Postboks 2502 N-3702 Skien	Telefon - Telephone: +47 35 50 56 00 Telefax - Telefon: +47 35 50 56 00	E-mail: rodnmyr@online.no Org.nr:

## Determination of fats, oils and grease content of tannery waste water:

SOLBERG GARVERI FAX 47-35522365 3/02/2002 16:00 01604679999 BLC TEC	PAGE 83 PAGE 82				
					
<b>TECHNICAL REPORT</b>					
Description of sample: Date work received: Date work carried out: Date out: Invoice No:	1 sample of effluent 22/02/02 27-28/02/02 28/02/02 To Follow				
Your ref: Our ref: Report by: Sheet No:	Mr Knut A Nygaard T01-2-0560 NB 1 of 1				
<b>Testing of Tannery Waste Water</b>					
<u>Sample received</u> sample of tannery waste water.					
<u>Work requested</u> Determination of fats, oils and grease content by extraction with Dichloromethane.					
<u>Work carried out</u> Determination of fats, oils and grease content.					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Sample</th> <th style="width: 50%;">Result (%)</th> </tr> </thead> <tbody> <tr> <td>Tannery waste water</td> <td>0.3</td> </tr> </tbody> </table>		Sample	Result (%)	Tannery waste water	0.3
Sample	Result (%)				
Tannery waste water	0.3				
 Mr N M Bingham Laboratory Technician	 Mrs A Michel Head of Technical Services				
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <input checked="" type="checkbox"/> Attn Mr Knut A Nygaard          Reiber Skinn AS          P O Box 990 Sentrum          N-5808 Bergen          Norway       </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">         This report is based on observations which have been related to information supplied, but on the distinct understanding that neither BLC nor any Officer of BLC is legally responsible therefore. Should any material facts have been withheld, the report may be invalid. UKAS accreditation is restricted to quantitative data, not opinions. Stable samples will be disposed of after 6 months unless otherwise instructed.       </div>					
c:\w\1\users\ggreen\Tech\US_0\Kn01-2-0560.doc BLC Leather Technology Centre Limited Leather Trade House Kings Park Road Moulton Park Northampton NN3 8JD UK Tel: +44 (0) 1604 679999 Fax: +44 (0) 1604 879998 Email: info@blcleathertech.com Website: www.blcleathertech.com Registered No 2614045 (England)					

## Site Plan:

