



**Greater Vancouver Regional District**  
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

*Policy and Planning Department*  
Telephone (604) 432-6375  
Fax (604) 436-6970

# PERMIT

(Under the provisions of the GVRD Air Quality Management Bylaw No. 937, 1999)

FLAVELLE SAWMILL COMPANY LIMITED

IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS

FROM A SAWMILL

LOCATED AT 2400 MURRAY STREET, PORT MOODY, BC, CANADA - V3H 4H6

This permit has been issued under the terms and conditions prescribed in the attached Schedules A, B, C, D, E, F, G, & H for emission sources and works existing or planned on May 23, 2003

DISTRICT DIRECTOR  
PERMIT NUMBER GVA0060

**INDEX OF SCHEDULES**

Schedule A.....Site Plan

Schedule B.....General Requirements

Schedule C.....Emission Monitoring, Sampling and Reporting Requirements

Schedule D.....Emission Sources and Discharge Points

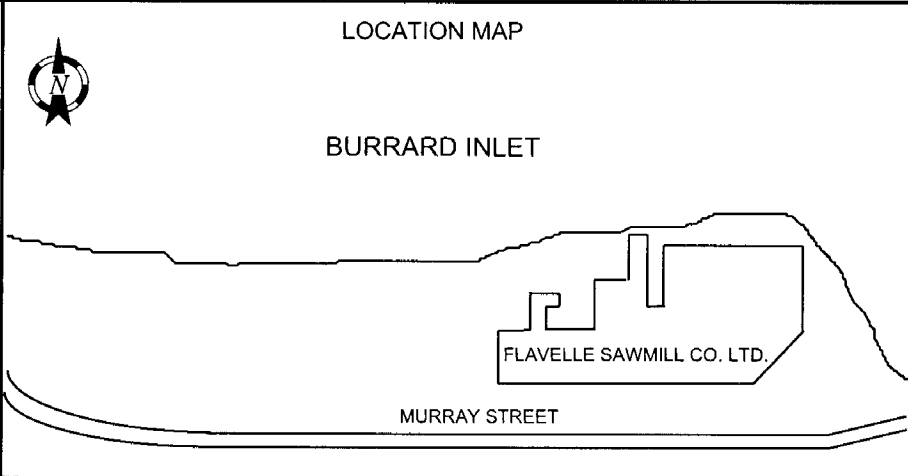
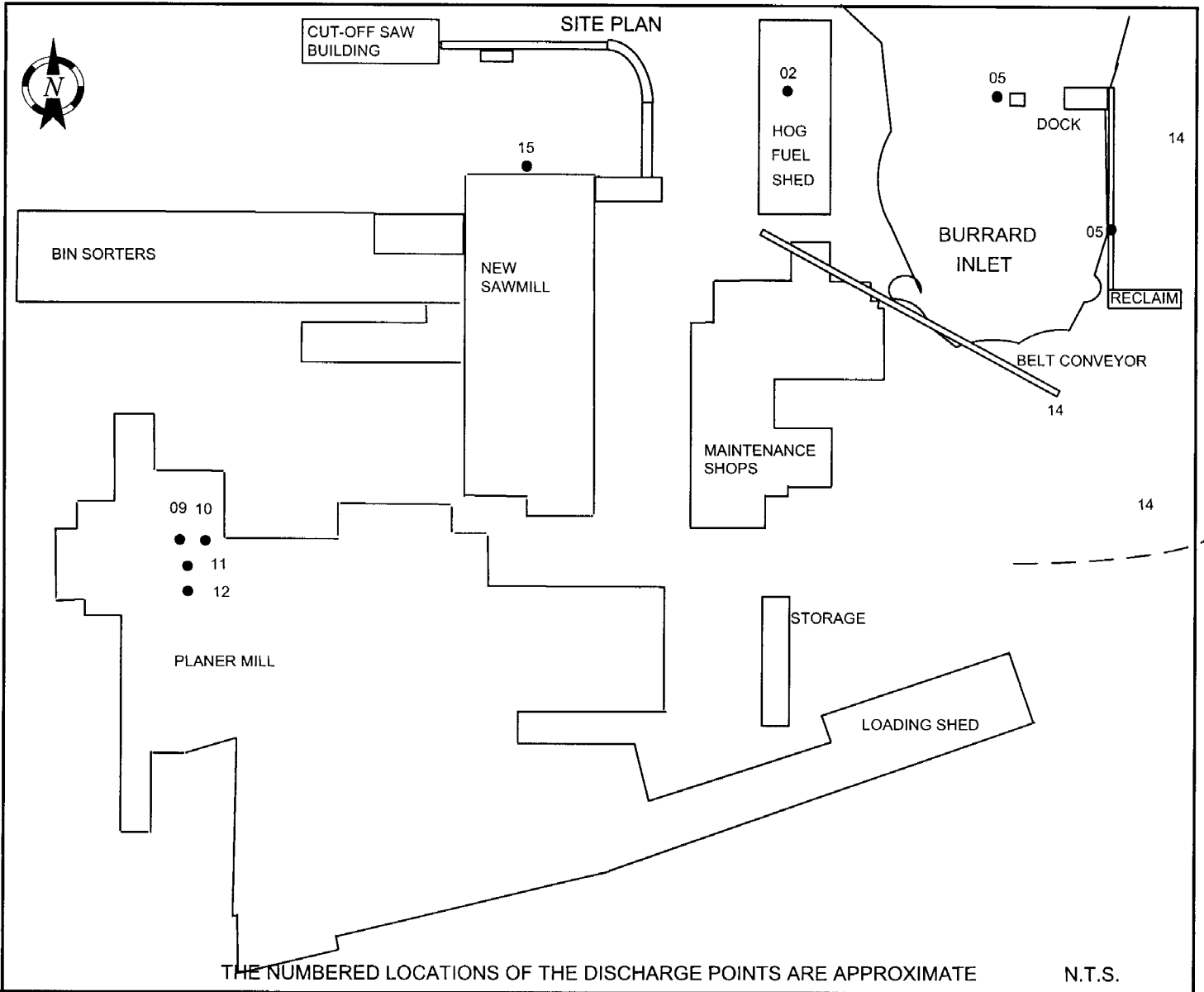
Schedule E.....Authorized Rates of Discharge

Schedule F.....Authorized Discharge Criteria


Schedule G.....Authorized Works and Procedures

Schedule H.....Record of Permit Issuance Dates

SCHEDULE A - Page 1  
to PERMIT GVA0060



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DISTRICT DIRECTOR

Schedule A to Permit No. GVA0060

**GREATER VANCOUVER REGIONAL DISTRICT**

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**SCHEDULE B - Page 1  
to PERMIT GVA0060**

**A AMENDMENTS**

The terms and conditions of this Permit may be amended, as authorized by applicable legislation.

**B MAINTENANCE AND OPERATION OF WORKS**

Works and procedures, which this Permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The Permittee shall regularly inspect and maintain all such works in good repair.

**C EMERGENCY PROCEDURES**

An emergency or other condition may prevent the continuous utilization of the above authorized works and procedures, or may result in a discharge of air contaminants which is not authorized by this Permit. If such a situation occurs, the Permittee shall report the circumstances of this event to the Greater Vancouver Regional District, Policy and Planning Department at (604) 436-6777 (24 hours) at the first available opportunity.

No discharge that has bypassed control works is authorized unless the District Director's approval has been obtained. In the event of an emergency, bypassing facilities may be used for such periods as are necessary to effect a shutdown of the related processes.

**D AIR CONDITIONING, HEATING AND VENTILATION SYSTEMS**

Air contaminants discharged from any natural gas-fired air conditioning, heating or ventilation systems for buildings located at the discharge site are not specified in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants. Notwithstanding the above, the District Director may at her/his discretion stipulate limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

**E GENERAL SITE RESTRICTIONS**

No air contaminant(s) from any single source, or combination of sources shall pass the boundary of the property, described in Section I of this Schedule B, such that the District Director determines that pollution has occurred.



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**SCHEDULE B - Page 2  
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**F INTERNAL COMBUSTION ENGINES**

Air contaminants discharged from any natural gas, propane, gasoline, diesel, or other fossil fuel fired internal combustion engines operated at the discharge site may not be specifically authorized in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel and to minimize emissions such that the requirements of Section E of this Schedule B are not exceeded. The District Director may at her/his discretion stipulate further limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

**G ENGINEERING UNITS**

The engineering units specified in this Permit are in accordance with the Metric System of measure. Approximate equivalent values for the British System can be calculated using the following conversion factors.

$\text{mg/m}^3 \times 0.000437 = \text{gr/cf}$   
 $\text{m}^3/\text{min} \times 35.3 = \text{cf/min}$   
 $\text{kg/m}^3 \times 0.0624 = \text{lbs/cf}$   
 $\text{kg/L} \times 10.0 = \text{lbs/gal}$   
 $\text{mg/m}^3 \times 24.0/\text{M} = \text{ppm (by volume)}$   
 $\text{GJ/h} \times 0.9478 = \text{MMBTU/h}$

where

$\text{m}^3 = \text{cubic metre}$   
 $\text{min} = \text{minute}$   
 $\text{mg} = \text{milligram}$   
 $\text{cf} = \text{cubic feet}$   
 $\text{s} = \text{second}$   
 $\text{lb} = \text{pound}$   
 $\text{kg} = \text{kilogram}$   
 $\text{gal} = \text{gallon}$   
 $\text{L} = \text{litre}$   
 $\text{M} = \text{molecular weight}$   
 $\text{gr} = \text{grain}$   
 $\text{ppm} = \text{parts per million}$   
 $\text{GJ} = \text{GigaJoule}$   
 $\text{MMBTU} = \text{Million British Thermal Unit}$   
 $\text{h} = \text{hour}$

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**SCHEDULE B - Page 3  
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**H STANDARD CONDITIONS AND DEFINITIONS**

Except where otherwise indicated, the following standard conditions and definitions apply to this Permit.

1. The Restrictions in the attached Schedules are maximum limits.
2. Gaseous volumes are corrected to dry conditions of 20° Celsius & 760mm Hg.
3. Particulate matter from combustion sources is corrected to 12% Carbon Dioxide.
4. Opacity is measured at the point of maximum density, nearest the discharge point.
5. Opacity measurements exclude the effect of condensed, uncombined water droplets.
6. Definitions in the Waste Management Act and GVRD Air Quality Management Bylaw apply to terminology used in this Permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook for the year 2003.
8. Any production, storage, transportation, handling, treatment, processing or ownership of a special waste must comply with the requirements of the Waste Management Act, Special Waste Regulation.

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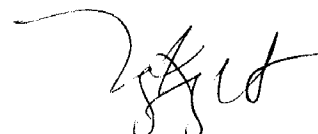
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**I DESCRIPTION OF DISCHARGE SITE**

The land from which the air contaminants are discharged is described as "City of Port Moody Parcel Identifier: 005-392-373; Parcel "M", District Lot 201, Group 1 New Westminster District, Reference Plan 55699,  
Parcel Identifier: 005-392-292; Lot 38, District Lot 201, Group 1 New Westminster District, Plan 55697,  
Parcel Identifier: 006-505-902; Lot 3, Tidal Lands and Lands covered by water (Plan with Fee Deposited 75962E) fronting on District Lot 201, Group 1, New Westminster District, Plan 4331;  
Parcel Identifier: 006-506-453; West Lot 8, Block 4, District Lot 201, Group 1, New Westminster District, Plan 72,  
Parcel Identifier: 006-506-461; East Half Lot 9, Block 4, District Lot 201, Group 1, New Westminster District, Plan 72,  
Parcel Identifier: 006-505-970; Parcel "One" (579861E) Parcel "C", Lot 11, Block 1, District Lot 201, Group 1, New Westminster District, Plan 72".

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## SCHEDULE C - Page 1 to PERMIT GVA0060

This Schedule describes emission monitoring, sampling and reporting requirements.

The Permittee shall conduct the following monitoring and sampling program on the discharges and submit the results to the District Director. The need for increased or decreased monitoring may be reviewed periodically by the District Director.

<b>EMISSION NUMBER</b>	<b>DUE DATES</b>	<b>REQUIREMENTS</b>
10, 11, 12, 15, 02, 05, 09	March 31, 2004 and annually thereafter	Written report detailing the total number of hours and days operated during the preceding calendar year. Records are to be maintained in a written bound log or other format approved by the District Director, and made available for inspection, by GVRD staff for a minimum period of three years.
10, 11, 12, 15, 02, 05, 09	See requirement	The operating period referred to in Schedule E of this Permit shall be continuously monitored and recorded using methods that have received prior approval by the District Director. This continuous record is to be maintained and made available for inspection by GVRD staff for a minimum period of three years.
15	August 31, 2007 and at five year intervals thereafter	The measured discharge rate and concentration of particulate matter in the emission.
General	March 31, 2004 and annually thereafter	Written report detailing the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.

Unless otherwise approved by the District Director prior to any sampling or analysis, all emission measurements shall be performed by an independent agency in accordance with those procedures described in applicable source test codes and laboratory manuals which have been published by the British Columbia Ministry of Water, Land and Air Protection, as they may be amended from time to time. Any variance from these procedures must receive prior approval from the District Director. Monitoring results shall be reported in the metric units which are used in this Permit to specify the authorized discharge criteria. These submissions shall include the production rate at the time of the test, and all field data and calculations. In addition, the Permittee shall provide the Greater Vancouver Regional District, Policy and Planning Department, with a minimum of 3 days advance notice before any emission measurements required by this Monitoring and Sampling Program are carried out.

Ambient air sampling and monitoring shall be undertaken by the Permittee, when required by the District Director.



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**SCHEDULE D - Page 1  
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The authorized emission sources and discharge points located approximately as shown on Schedule A are:

<b>EMISSION NUMBER</b>	<b>EMISSION SOURCE</b>	<b>DISCHARGE POINT</b>
02	Pneumatic conveyance of woodwaste associated with the cyclone Emission Numbers 09, 10, 11 & 12	Cyclone Exhaust(s)
05	Pneumatic and belt conveyance of hog & wood chips to barge	Cyclone Exhaust(s)
09	#1 and #2 resaws, #1 and #4 hula saws	Cyclone Exhaust(s)
10	#2 Planer, small planer maintenance	Cyclone Exhaust(s)
11	#2 and #3 hula saws and multi-trimmer	Cyclone Exhaust(s)
12	#1 Planer, planer maintenance	Cyclone Exhaust(s)
14	Pneumatic and belt conveyance of hog & wood chips to storage and reclaim area	Storage Pile(s)
15	Quadband saws, gang edger, board edger, canter, multi-saw trimmer and resaw	Cyclone Exhaust(s)

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**SCHEDULE E - Page 1  
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The authorized rates of discharge for the emission sources described in Schedule D are:

<b>EMISSION NUMBER</b>	<b>MAXIMUM AUTHORIZED RATE OF DISCHARGE</b>			<b>NOTES &amp; ADDITIONAL REQUIREMENTS</b>
	FLOW m3/min	DURATION hours/day	FREQUENCY days/week	
02	625	24	7	Maximum 4160 hours/year
05	110	24	7	Maximum 4160 hours/year
09	680	24	7	Maximum 4160 hours/year
10	640	24	7	Maximum 4160 hours/year
11	660	24	7	Maximum 4160 hours/year
12	940	24	7	Maximum 4160 hours/year
14	See Notes	24	7	The authorized rate of discharge is that resulting from stockpiling operations.
15	1,640	24	7	Maximum 4160 hours/year

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**SCHEDULE F - PAGE 1  
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The authorized maximum discharge criteria for emission sources described in Schedule D are:

<b>EMISSION NUMBER</b>	<b>PARAMETER</b>	<b>RESTRICTION</b>	<b>NOTES</b>
02, 09, 10, 11, 12	Particulate Matter	120 mg/m3	
15	Particulate Matter	60 mg/m3	
02, 09, 10, 11, 12, 15	Opacity	10%	Based on six minute average.
05, 14	Particulate Matter	See notes	None from any single source, or combination of sources, past the plant boundary such that the District Director determines that pollution has occurred.

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**SCHEDULE G - Page 1  
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The authorized works and procedures to control the discharge of air contaminants from the emission sources described in Schedule D are indicated below. The District Director may require that further works be installed, if the existing works, in her/his opinion, do not provide an acceptable level of emission control. New works or alterations to existing works must be approved, in principle, by the District Director.

Where the District Director has specified that additional works are required, the maximum discharge criteria described in Schedule F of this Permit are applicable as specified by the Completion Date(s) listed below. Prior to the specified date(s) the existing control works and procedures must be maintained in good operating condition and operated in a manner to minimize emissions.

<b>EMISSION NUMBER</b>	<b>COMPLETION DATE</b>	<b>DESCRIPTION OF WORKS/PROCEDURES</b>
05	Completed	Cyclone, related appurtenances, and barge loader spouts of adequate length such that a maximum product drop height of 6 feet can be maintained during all loading operations, together with good operating practices.
02, 09, 10, 11, 12, 15	Completed	Cyclones and related appurtenances together with good operating practices.
14	Completed	Proper chip screening and handling procedures and water injection to the pneumatic wood chip conveying systems. Covered conveyor with retractable telescopic trunk and related appurtenances together with good operating practices. Product shall not be handled when wind speeds cause material to travel past the plant boundary.



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**SCHEDULE H - Page 1  
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**RECORD OF PERMIT ISSUANCE**

<b>DATE</b>	<b>ACTION</b>	<b>SECTIONS AFFECTED</b>
December 20, 2001	ISSUANCE	Face, Schedules A, B, C, D, E, F, G & H
December 25, 2002	AMENDMENT	Face, Schedules A, B, C, D, E, F, G, H & I
May 23, 2003	AMENDMENT	Face, Schedules A, B, C, D, E, F, G & H

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