



*Policy & Planning Department*  
Telephone: 604-432-6375 Fax: 604-436-6970

# PERMIT

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

TEAL-JONES GROUP LTD.

IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS

FROM A SHINGLE MILL, SAW MILL, AND PLANER MILL

LOCATED AT 17897 TRIGGS ROAD, SURREY BC V4N 4M8

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

JUN 19 2006

DISTRICT DIRECTOR  
PERMIT NUMBER GVA0269

**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

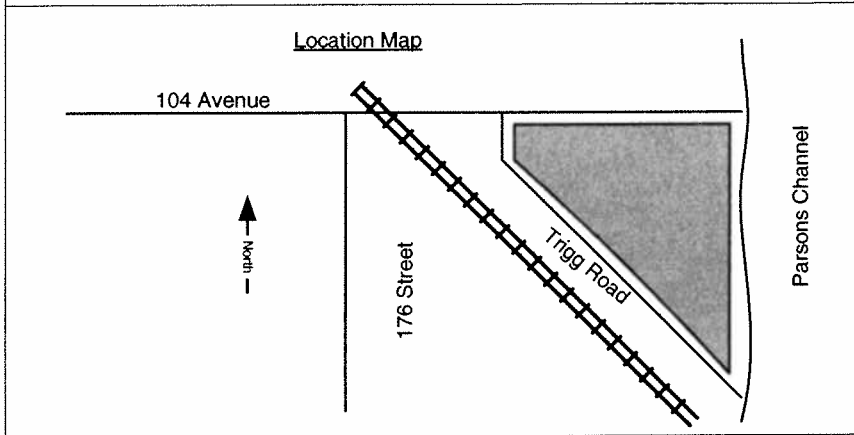
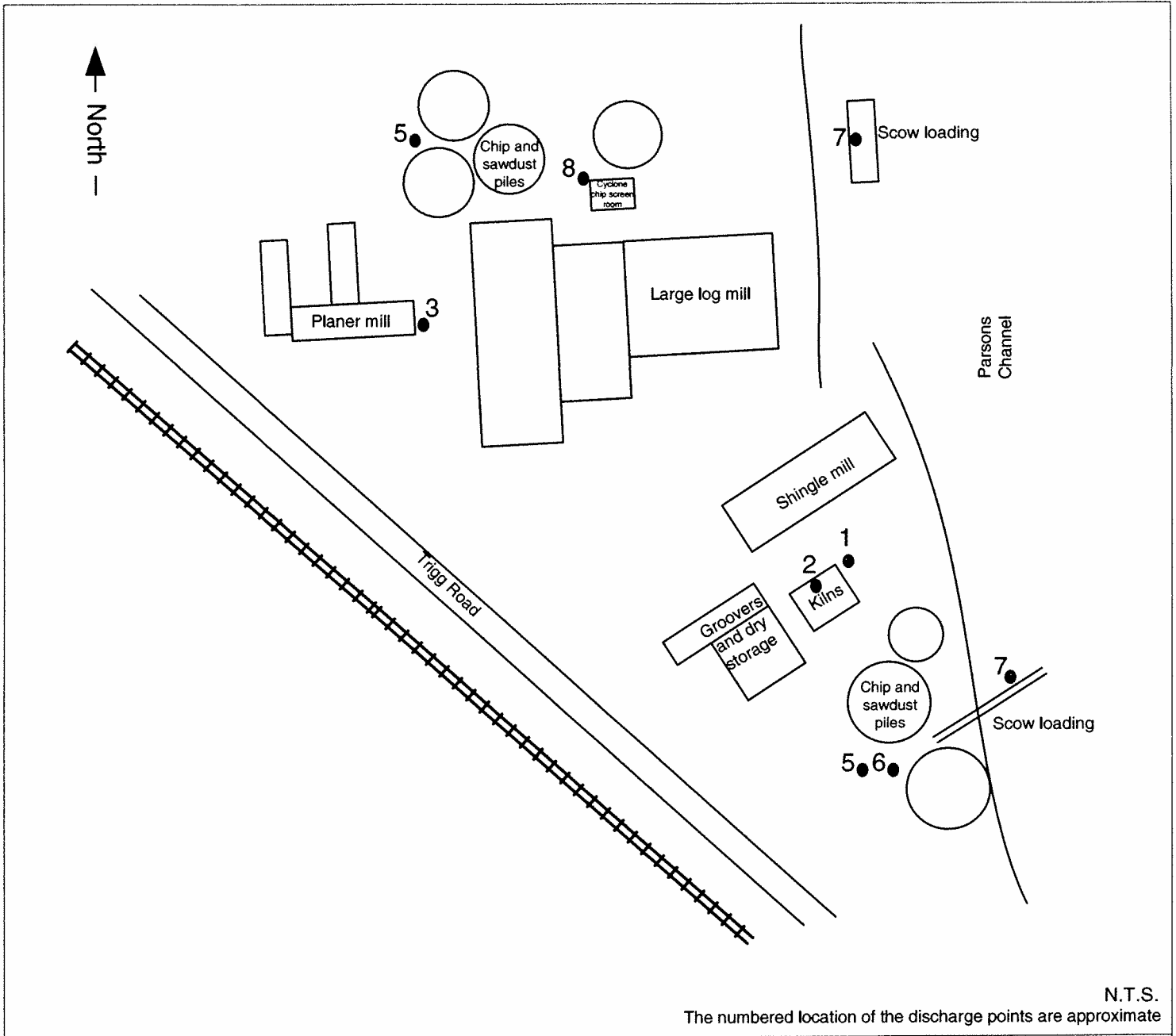
Schedule E.....Authorized Rates of Discharge

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Schedule G.....Authorized Works and Procedures

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SCHEDULE A – Page 1  
to PERMIT GVA0269



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*[Signature]*

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**SCHEDULE B - Page 1  
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**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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**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.

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

where

m<sup>3</sup> = cubic metre  
min = minute  
mg = milligram  
cf = cubic feet  
s = second  
lb = pound  
kg = kilogram  
gal = gallon  
L = litre  
M = molecular weight  
gr = grain  
ppm = parts per million  
GJ = GigaJoule  
MMBTU = Million British Thermal Unit  
h = hour

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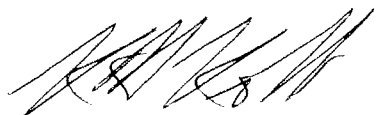
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**H STANDARD CONDITIONS AND DEFINITIONS**

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 (unless otherwise stated).
4. Opacity is measured at the point of maximum density, nearest the discharge point, based on a six minute average.
5. Opacity measurements exclude the effect of condensed, uncombined water droplets.
6. Definitions in the Environmental Management Act and GVRD Air Quality Management Bylaw current at the time of issuance of this Permit apply to terminology used in this Permit. If the Permit is subsequently amended, definitions in the Environmental Management Act and GVRD Air Quality Management Bylaw current at the time of amendment shall 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 2005.
8. Any production, storage, transportation, handling, treatment, processing or ownership of a hazardous waste must comply with the requirements of the Environmental Management Act Hazardous Waste Regulation (BC Reg. 63/88).

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**I DESCRIPTION OF DISCHARGE SITE**

The land from which the air contaminants are discharged is described as Municipality of Surrey:

PID: 003-891-305, Lot 57, District Lot 389A, Group 2, New Westminster District, Plan 66533, and

PID: 003-891-313, Lot 58, District Lots 121 & 389A, Group 2, New Westminster District, Plan 66533, and

PID: 003-891-321, Lot 59, District Lots 121 & 389A, Group 2, New Westminster District, Plan 66533; and

PID: 003-891-330, Lot 60, District Lots 121 & 389A, Group 2, New Westminster District, Plan 66533, and

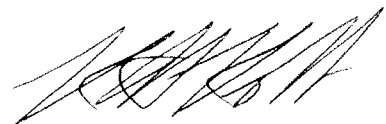
PID: 003-891-348, Lot 61, District Lots 121 & 389A, Group 2, New Westminster District, Plan 66533, and

PID: 003-891-356, Lot 62, District Lots 121 & 389A, Group 2, New Westminster District, Plan 66533, and

PID: 000-508-934, Parcel A (J151030E), Lot 12, District Lot 121, Group 2, New Westminster District, Plan 1773, and

PID: 012-371-882, Lot 12 except: Parcel "A" (J151030E), District Lot 121, Group 2, New Westminster District, Plan 1773 and the foreshore and bed of the Fraser River fronting on Lots 5 & 6 of Lot 389A, Group 2; and of Lot "A" of District Lot 121, Group 2, Plan 1773, New Westminster District; and of Lot 4 of Lot 2, District Lots 121 & 389A, Group 2, Plan 1773, New Westminster District; and of Lot 58 of District Lots 121 & 389A, Group 2, Plan 66533, New Westminster District.

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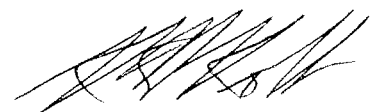
**SCHEDULE C - Page 1  
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This Schedule describes emission monitoring, sampling and reporting requirements.

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>
01, 03, 08	See requirements	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.
01, 03, 08	March 31, 2007 and annually thereafter	Written report detailing the total number of hours and days operated during the preceding calendar year.
01, 03, 08	March 31, 2007 and at three year intervals thereafter	The measured discharge rate and concentration of particulate matter in the emissions.
General	March 31, 2007 and annually thereafter	Written report detailing the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.
General	March 31, 2007 and annually thereafter	Written report detailing the types and amounts of fuel burned in the preceding calendar year.
General	March 31, 2007 and annually thereafter	Written report detailing the types, amounts and end use of organic solvents and organic solvent-containing materials used in the preceding calendar year.

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**SCHEDULE C - Page 2  
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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 Environment, 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 three working 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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**GREATER VANCOUVER REGIONAL DISTRICT**

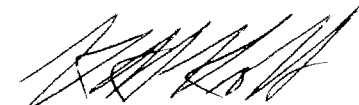
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**SCHEDULE D - Page 1  
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The authorized emission sources and discharge points located approximately as shown on Schedule A are:

<b>EMISSION NUMBER</b>	<b>EMISSION SOURCE</b>	<b>DISCHARGE POINT</b>
01	7 groovers, 5 resaws, 8 shingle machines	Cyclone Exhaust(s)
02	Natural gas fired boiler	Stack(s)
03	Planer, edger, resaw	Cyclone Exhaust(s)
05	Stockpiling of wood chips and hog fuel	Other
06	Stockpiling of sawdust	Other
07	Barge loading of wood chips and hog fuel	Other
08	Re-chipper	Cyclone Exhaust(s)

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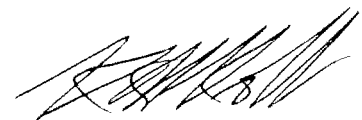
GREATER VANCOUVER REGIONAL DISTRICT

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

EMISSION NUMBER	MAXIMUM AUTHORIZED RATE OF DISCHARGE			NOTES & ADDITIONAL REQUIREMENTS
	FLOW m3/min	DURATION hours/day	FREQUENCY days/week	
01	1,800	16	5	Maximum 3840 hours/year.
02	65	24	7	
03	800	16	5	Maximum 3840 hours/year.
05	See Notes	24	7	The authorized flow applies to discharge resulting from the stockpiling and reclamation of chips and hog fuel as well as stockpile wind erosion effects.
06	See Notes	24	7	The authorized flow applies to discharge resulting from the stockpiling and reclamation of sawdust as well as stockpile wind erosion effects.
07	See Notes	24	7	The authorized flow applies to discharge resulting from the barge loading of chips and hog fuel as well as stockpile wind erosion effects.
08	65	17	7	

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**GREATER VANCOUVER REGIONAL DISTRICT**

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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>
03	Particulate Matter	40 mg/m3	
01, 08	Particulate Matter	80 mg/m3	
01, 03, 08	Opacity	20%	
02	Combustion Products	See notes	Typical products of natural gas combustion at a maximum firing rate of 15.19 GJ/h.
05, 06, 07	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 emission control 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 CONTROL WORKS/PROCEDURES</b>
01, 03, 08	Completed	Cyclone and related appurtenances, together with good operating practices.
05, 06, 07	Completed	Proper chip screening and handling procedures and water injection to the pneumatic chip conveying system, on the wood chip handling systems. 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. Product handling shall be curtailed upon evidence of visible particulate matter past the plant boundary.
02	Completed	The firing of the boiler with natural gas, using good combustion practices and operating procedures.

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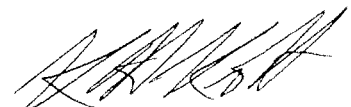
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**SCHEDULE H - Page 1  
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**RECORD OF PERMIT ISSUANCE**

<b>DATE</b>	<b>ACTION</b>	<b>SECTIONS AFFECTED</b>
JUN 19 2006	AMENDMENT	Face, Schedules A, B, C, D, E, F, G & H
November 30, 1992	ISSUANCE	Face, Schedules A, B, C, D, E, F, G & H
November 08, 1996	AMENDMENT	Face, Schedules A, B, C, D, E, F, G & H

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