

## PERMIT GVA0269

**Pursuant to:**

Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008  
and the BC Environmental Management Act, S.B.C 2003, c.53

**Issued to:**

Teal-Jones Group Ltd.  
(the "Permittee")

**To Authorize:**

the discharge of air contaminants to the air from  
a Shingle Mill, Saw Mill, and Planer Mill

**Located at:**

17897 Triggs Road, Surrey, BC V4N 4M8

**Effective Period:**

The terms and conditions set out in the Permit apply to the existing or planned works as of  
August 02, 2019 and this permit will expire on June 29, 2029.

All previous versions of this Permit are invalid.

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Issued: November 30, 1992  
Amended: August 02, 2019

  
R. H. (Ray) Robb, P. Eng.  
District Director

**METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT**

**SECTION 1 – AUTHORIZED EMISSION SOURCES**

Authorization to discharge air contaminants from the authorized Emission Sources and Works listed below is subject to the specified terms and conditions.

Approximate locations of the emission sources are shown on the Site Plan in section 4.

**EMISSION SOURCE 01:** Seven groovers, five resaws, eight shingle machines discharging through a Cyclone Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **1500** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **3840** h/y

MAXIMUM EMISSION QUALITY:

1. 40 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Cyclone and related appurtenances, together with good operating practices.

**EMISSION SOURCE 02:** Natural gas fired boiler discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **65** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **15.19** GJ/h

MAXIMUM EMISSION QUALITY:

1. Typical products of natural gas combustion.

WORKS AND PROCEDURES:

The firing of the boiler with natural gas at the maximum input firing rate specified above, using good combustion practices and operating procedures.

**EMISSION SOURCE 03:** Planer, edger, resaw discharging through a Cyclone Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **1000** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **3840** h/y

MAXIMUM EMISSION QUALITY:

1. 10 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

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**WORKS AND PROCEDURES:**

Cyclone and related appurtenances, together with good operating practices.

**EMISSION SOURCE 05: Stockpiling of wood chips discharging directly to the environment.**

**MAXIMUM EMISSION FLOW RATE: The authorized rate of discharge is that resulting from the stockpiling and reclaiming operations as well as stockpile wind erosion effects.**

**MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y**

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity.
2. The authorized opacity applies to fugitive emissions resulting from the stockpiling and reclamation of wood chips at the maximum point of discharge.

**WORKS AND PROCEDURES:**

Proper wind screens and chip screening and handling procedures together with a covered chip conveying system and processing green wood chips, together with good operating practices.

Chip throughput is not to exceed an annual restriction of 333,529 oven-dry tonnes per year.

Product shall not be handled when winds cause material to travel past the plant boundary.

**EMISSION SOURCE 06: Stockpiling of sawdust, hog fuel and wood chips discharging directly to the environment.**

**MAXIMUM EMISSION FLOW RATE: The authorized rate of discharge is that resulting from the stockpiling and reclaiming operations as well as stockpile wind erosion effects.**

**MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y**

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity.
2. The authorized opacity applies to fugitive emissions resulting from the stockpiling and reclamation of sawdust, hogfuel, and wood chips at the maximum point of discharge.

**WORKS AND PROCEDURES:**


Proper screening and handling procedures together with water injection to the covered conveying system, together with good operating practices.

Sawdust/hog fuel throughput not to exceed an annual restriction of 170,150 oven-dry tonnes per year.

Chip throughput is part of ES05 annual restriction.

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Product shall not be handled when winds cause material to travel past the plant boundary.

**EMISSION SOURCE 07: Barge loading of sawdust, wood chips and hog fuel discharging directly to the environment.**

**MAXIMUM EMISSION FLOW RATE: The authorized rate of discharge is that resulting from loading chips and hog fuel.**

**MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y**

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity.
2. The authorized opacity applies to fugitive emissions resulting from the loading of sawdust, hogfuel and chips onto a barge at the maximum point of discharge.

**WORKS AND PROCEDURES:**

Proper chip screening and handling procedures and water injection to the pneumatic conveying system together with good operating practices.

Drop height for material from loader spouts during all loading operations is 1.8 meters (6 feet) or less.

Annual throughput restriction of sawdust, chips and hogfuel for this source is that authorized by Emission Sources 05 and 06.

Product shall not be handled when winds cause material to travel past the plant boundary.

**EMISSION SOURCE 09: Small Log Mill discharging through a Cyclone Exhaust(s).**

**MAXIMUM EMISSION FLOW RATE: 500 m<sup>3</sup>/min**

**MAXIMUM ANNUAL OPERATING HOURS: 6000 h/y**

**MAXIMUM EMISSION QUALITY:**

1. 10 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

**WORKS AND PROCEDURES:**

Cyclone and related appurtenances, together with good operating practices.

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**SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS**

**A. AUTHORIZED WORKS, PROCEDURES AND SOURCES**

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

The District Director must be provided with reasonable notice of any changes to or replacement of authorized works, procedures or sources. Any changes to or replacement of authorized works, procedures or sources must be approved by the District Director in advance of operation. For certainty, this does not include routine maintenance or repair.

The discharge criteria described in Section 1 of this permit are applicable on the issued or last amended date of this permit unless specified otherwise. If a date different to the issued or last amended date is specified, the existing works, procedures and sources must be maintained in good operating condition and operated in a manner to minimize emissions.

**B. NOTIFICATION OF MONITORING NON-COMPLIANCE**

The District Director must be notified immediately of any emission monitoring results, whether from a continuous emissions monitor or periodic testing, which exceed the quantity or quality authorized in Section 1 of this permit. Notification shall be made to Metro Vancouver's 24-hour number: 604-436-6777, or to [regulationenforcement@metrovancover.org](mailto:regulationenforcement@metrovancover.org).

**C. POLLUTION NOT PERMITTED**

Notwithstanding any conditions in this permit, no person shall discharge or allow or cause the discharge of any air contaminant so as to cause pollution as defined in the Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008 and the Environmental Management Act.

**D. BYPASSES**

The discharge of air contaminants that have bypassed authorized control works is prohibited unless advance approval has been obtained and confirmed in writing from the District Director.

**E. EMERGENCY PROCEDURES**

In the event of an emergency or condition beyond the control of the Permittee that prevents effective operation of the authorized works or procedures or leads to unauthorized discharge, the Permittee shall:

1. Comply with all applicable statutory requirements;
2. Immediately notify the District Director of the emergency or condition and of contingency actions invoked or planned to mitigate adverse impacts and restore compliance; Notification shall be made to Metro Vancouver's 24-hour number: 604-436-6777; and
3. Take appropriate remedial action for the prevention or mitigation of pollution.

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The District Director may specify contingency actions to be implemented to protect human health and the environment while authorized works are being restored and/or corrective actions are being taken to prevent unauthorized discharges.

If an emergency situation results in a "spill" as defined in the Environmental Management Act Spill Reporting Regulation, the spill shall also be reported immediately to the Provincial Emergency Program by telephoning 1-800-663-3456.

### **F. AMENDMENTS**

The terms and conditions of this permit may be amended, as authorized by applicable legislation. New works, procedures or sources or alterations to existing works, procedures or sources must receive authorization in advance of operation.

### **G. STANDARD CONDITIONS AND DEFINITIONS**

Unless otherwise specified, the following applies to this permit:

1. Gaseous volumes are corrected to standard conditions of 20 degrees Celsius (°C) and 101.325 kilo Pascals (kPa) with zero percent moisture.
2. Contaminant concentrations from the combustion of specific fuel types are corrected to the following Oxygen content, unless specified otherwise:
  - 3% O<sub>2</sub> for natural gas and fuel oil; or
  - 8% O<sub>2</sub> for wood fuel
3. Where compliance testing is required, each contaminant concentration limit in this permit will be assessed for compliance based on a valid test using test methods approved by the District Director.
4. Visual opacity measurements are made at the point of maximum density, nearest the discharge point and exclude the effect of condensed, uncombined water droplets. Compliance determinations are based on a six-minute average in accordance with the United States Environmental Protection Agency (US EPA) Method 9: Visual Determination of the Opacity of Emissions from Stationary Sources. Continuous Emission Monitor System (CEMS) opacity compliance determinations are based on a one-hour average (taken from the top of each hour).
5. If authorized in Section 1 of this permit, standby fuel use is restricted to a maximum of 350 hours per year and to those periods during which the primary authorized fuel is not available. Fuel oil sulphur content shall not exceed 15 milligrams per kilogram (mg/kg) and emissions during fuel oil firing shall not exceed 10% opacity.
6. Definitions in the Environmental Management Act and 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, current on the latest date that this permit issuance or amendment came into effect.
8. Sulphur Oxides (SO<sub>x</sub>) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NO<sub>x</sub>) are expressed as Nitrogen Dioxide.
10. The Canadian Council of Ministers of the Environment (CCME) "Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks (PN1180)" shall be adhered to for all applicable tanks unless otherwise stated in this permit.

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11. Authorized 'Maximum Annual Operating Hours' of 8760 hours per year for an emission source is equivalent to authorization for continuous operation of the emission source for an entire calendar year, including leap years.

**H. RECORDS RETENTION**


All records and supporting documentation relating to this permit must be kept for at least three years after the date of preparation or receipt thereof, and be made available for inspection within 48 hours of a request by an Officer.

**I. HEATING, VENTILATION, AIR CONDITIONING AND INTERNAL COMBUSTION ENGINES**

Air contaminants discharged from any natural gas-fired heating, ventilation or air conditioning system for buildings and any internal combustion engine located at the discharge site 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.

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**SECTION 3 – REPORTING REQUIREMENTS**

**A. MONITORING REQUIREMENTS AND REPORTING**

Unless otherwise approved in writing by the District Director prior to any sampling or analysis, all measurements shall be performed by an independent agency in accordance with Metro Vancouver Air Emissions Sampling Program Manual of Methods and Standard Operating Procedures and the BC Ministry of Environment Field Sampling Manual, as they may be amended from time to time. Any variance from these procedures must receive prior written approval from the District Director.

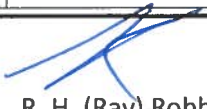
A minimum of 5 working days advance notice must be given prior to taking measurements required by this Monitoring and Sampling Program. Notification must be given to the Metro Vancouver Environmental Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email [regulationenforcement@metrovancover.org](mailto:regulationenforcement@metrovancover.org)).

Unless otherwise specified, sampling shall be performed under operating conditions representative of the previous 90 calendar days of operation. All field data and calculations must be submitted with monitoring results and they shall be reported in the metric units which are used in this permit. These submissions shall include process data relevant to the operation of the source of the emissions and the performance of the emission control works.

The Permittee shall conduct the following monitoring and sampling and submit electronic reports of the results to the District Director by the dates specified below using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
01, 03, 09	March 31, 2020	Every 3 years, on or before March 31 every third year.	Written report detailing the measured discharge rate and concentration of particulate matter in the emissions.  Alternative methodologies may be considered if a draft test plan including rationale and proposed test protocols is	Particulate Matter	Metro Vancouver AQ02/02/1.00M	Stack

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
			submitted to Metro Vancouver at least 60 days prior to conducting the stack test.			

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**B. INFORMATION REPORTING REQUIREMENTS**

The Permittee shall submit electronic reports containing the required information to the District Director by the dates specified below using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
01, 03, 09	March 31, 2020	On or before March 31 for each subsequent year.	Written report providing details of the total number of hours and days operated in the preceding calendar year.	Operating Period
Facility	March 31, 2020	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.	Materials and Products
Facility	March 31, 2020	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of fuel burned in the preceding calendar year.	Fuel Use
Facility	March 31, 2020	On or before March 31 for each subsequent year.	Written report providing details of the types, amounts and end use of organic solvents and organic solvent-containing materials used in the preceding calendar year.	Solvent Use
Facility	March 31, 2020	On or before March 31 for each subsequent year.	Written report regarding the measures and actions taken to reduce volatile organic carbon (VOC) emissions in the preceding calendar year. The report shall include the following: <ul style="list-style-type: none"> <li>- VOC reductions in solvent based materials including coating, antispain and thinner substitutions.</li> <li>- A feasibility and effectiveness assessment to replace current VOC containing products with lower VOC containing products and includes:                             <ul style="list-style-type: none"> <li>- New coating, antispain and thinner product reviews</li> <li>- Results of any new coating, antispain and thinner trials</li> </ul> </li> </ul>	Information - Other

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
			- A feasibility and effectiveness assessment for the collection and treatment of VOC emissions. Subsequent written reports are to provide updates to previously submitted reports.	

**C. AMENDED OR ADDITIONAL REQUIREMENTS**

Based on the results of the monitoring program, including the stack sampling results or any other information, the District Director may:

1. Amend the monitoring and reporting requirement of any of the information required by this Permit including plans, programs and studies.
2. Require additional investigations, tests, surveys or studies.

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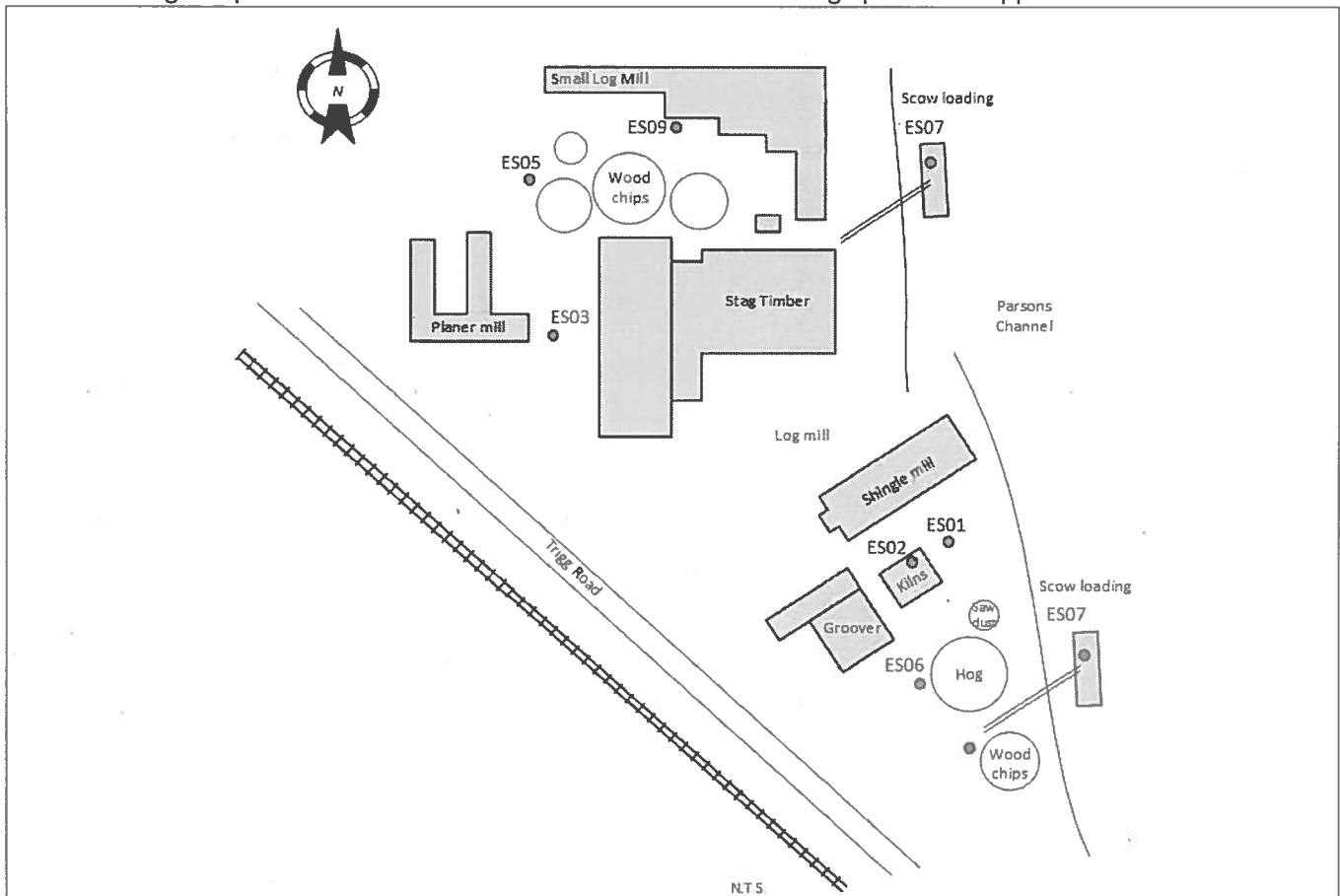
  
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**SECTION 4 – SITE PLAN**

LEGAL DESCRIPTION OF DISCHARGE SITE: The Municipality of Surrey, PID:003-981-305, Lot 57, Lot 58 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.

The following site plan is not to scale and the locations of the discharge points are approximate.



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