PERMIT GVA0184

Pursuant to
Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008
and BC Environmental Management Act

Tree Island Industries Ltd.

located at
3933 Boundary Road, Richmond, British Columbia  V6V 1T8

is authorized to discharge air contaminants to the air from a
Steel Wire Mill

located at the above address, subject to the requirements in this Permit.

Contravention of any of these requirements is a violation of the bylaw
and may result in enforcement action.

Print Date: February 05, 2010

Date Issued: December 07, 1992
Date Amended: FEB 11  2010

Ray Robb, District Director
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SECTION 1 – AUTHORIZED EMISSION SOURCES

Authorization to discharge air contaminants from the authorized Emission Sources and Works listed below are 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: Three cleaning tanks associated with the rod cleaning house and a rinse tank discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 1450 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Hydrogen Chloride
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Counter current packed tower scrubber using a water scrubbing solution and related appurtenances together with good operating practices.

EMISSION SOURCE 02: No. 1 lead heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 75 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 9.5 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

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EMISSION SOURCE 03: No. 1 zinc heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 40 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 5.127 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

EMISSION SOURCE 04: No. 2 lead heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 55 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 6.857 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

EMISSION SOURCE 06: Pickling systems associated with the No. 1, No. 2 and No. 3 wire galvanizing lines discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Hydrogen Chloride
2. 7 mg/m³ Zinc
3. 20 mg/m³ Particulate Matter
4. 10% Opacity.
5. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
6. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.
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WORKS AND PROCEDURES:
Packed tower scrubber using a water scrubbing solution and related appurtenances together
with good operating practices.

EMISSION SOURCE 09: Four nail galvanizing furnace heaters associated with No. 4 nail hot
galvanizing fine discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 40 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 5.148 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel
using good combustion practices and operating procedures.

EMISSION SOURCE 10: Acid cleaning section of an electroplating process discharging
through a Vent(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Hydrogen Chloride
2. 5% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that
   pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the
   maximum allowable emission concentration (EC) for each emitted chemical contaminant
   with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for
   all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 12: Two process boilers discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 125 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 16.88 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the Cleaver Brooks 50 H.P. and 75 H.P. boilers with natural gas or fuel oil stand-by in accordance with Section 2.C.5 of this permit.

EMISSION SOURCE 13: Four nail galvanizing machines associated with No. 4 hot nail galvanizing line discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 305 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 20 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.
EMISSION SOURCE 19: Rod cleaning house discharging through a Fan Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 480 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 5 mg/m³ Hydrogen Chloride
2. 5% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 20: Two zinc ammonium chloride fluxing tanks associated with the No. 1 and No. 2 wire galvanizing lines discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 200 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 5% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 21: No. 2 zinc heater and general ventilation of work area discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 750 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 3.27 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

EMISSION SOURCE 22: Nail vinyl coating machine discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 100 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Vinyl Chloride
2. 5% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 23: No. 1 wire galvanizing line general ventilation discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 26: Heater for standby propane vaporizer discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 5 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 0.949 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with propane, using good combustion practices and operating procedures.
EMISSION SOURCE 28: Wire vinyl coating extruder discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 75 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Vinyl Chloride
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 30: Lime coating tank associated with the rod cleaning house discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 245 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.
2. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 31: Borax coating tank associated with the rod cleaning house discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 245 m$^3$/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m$^3$ Sodium Tetraborate Pentahydrate
2. 5% Opacity.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 32: Three acid storage tanks associated with the rod cleaning house discharging through a Vent(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge is that resulting from vapour venting during tank filling and breathing.
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 70 mg/m$^3$ Hydrogen Chloride
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 33: Laboratory fume hood discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 40 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 10 mg/m³ Hydrogen Chloride
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 35: Weldmesh process discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 5784 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 36: Stucco mesh process discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 10 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 37: Annealing furnace dressing stations associated with the No. 1, No. 2 and No. 3 wire galvanizing lines discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 280 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 664 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 20 mg/m³ Particulate Matter
2. 5% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.
EMISSION SOURCE 39: Phosphating process tanks discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 990 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 6240 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.
2. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
3. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 40: Wire drawing machines discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 65 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 20 mg/m³ Particulate Matter
2. 10% Opacity.
3. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.
EMISSION SOURCE 42: No. 4 zinc re-melting furnace discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 1 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.

WORKS AND PROCEDURES:
Firing of the heaters with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

EMISSION SOURCE 43: No. 3 zinc heater and general ventilation of work area discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 800 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 3.32 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 10% Opacity.
4. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

EMISSION SOURCE 44: No. 3 lead heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 36 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 5.17 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.
EMISSION SOURCE 45: No. 3 flux tank discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 200 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 46: No. 5 zinc heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 16 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 2.11 GJ/hr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 50 mg/m³ Particulate Matter
3. 5% Opacity.

WORKS AND PROCEDURES:
Firing of the heater with natural gas as the primary fuel and propane as the secondary fuel using good combustion practices and operating procedures.

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EMISSION SOURCE 47: Zinc tank associated with the No. 5 nail spin galvanizing line discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 230 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 20 mg/m³ Particulate Matter
3. 5% Opacity.
4. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.

EMISSION SOURCE 48: No. 5 flux tank discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 200 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 4160 hrs/yr

MAXIMUM EMISSION QUALITY:
1. 7 mg/m³ Zinc
2. 5% Opacity.
3. Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.
EMISSION SOURCE 49: EVG Weldmesh Process discharging through a Fan Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 150 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 6240 hrs/yr

MAXIMUM EMISSION QUALITY:
1.  7 mg/m³ Zinc
2.  50 mg/m³ Particulate Matter
3.  5% Opacity.
4.  Odour: None past the plant boundary such that the District Director determines that pollution has occurred.
5.  Chemical Contaminants: Excluding those chemical contaminants listed in Section 1, the maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:
Good operating practices.

EMISSION SOURCE 50: Lime Silo discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 34 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 16 hrs/yr

MAXIMUM EMISSION QUALITY:
1.  20 mg/m³ Particulate Matter
2.  5% Opacity.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.

EMISSION SOURCE 51: Carpenter Shop Dust Collector discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 57 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 200 hrs/yr

MAXIMUM EMISSION QUALITY:
1.  20 mg/m³ Particulate Matter
2.  5% Opacity.

WORKS AND PROCEDURES:
Baghouse and related appurtenances together with good operating practices.
SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. AMENDMENTS
The terms and conditions of this permit may be amended, as authorized by applicable legislation. New and modified sources must receive authorization prior to start-up.

B. POLLUTION
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.

C. STANDARD CONDITIONS AND DEFINITIONS
Unless otherwise specified, the following applies to this permit:

1. Gaseous volumes are corrected to standard conditions of 20° Celsius & 101.325 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% O₂ for natural gas and fuel oil;
   - 8% O₂ for wood fuel.
   - 15% O₂ for turbines
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. Visual opacity compliance determinations are based on a 6 minute average in accordance with the provincial “Source Testing Code for the Visual Measurement of The Opacity of Emissions from Stationary Sources”.
5. If authorized in section 1 of this permit, standby fuel use is restricted to a maximum of 350 hrs/yr and to those periods during which the primary authorized fuel is not available. Fuel oil sulphur content shall not exceed 15 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 (SOx) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NOx) 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 (June 1995, CCME-EPC-87E)” shall be adhered to for all applicable tanks unless otherwise stated in this permit.
11. Authorized 'Maximum Annual Operating Hours' of 8760 hrs/yr for an emission source is equivalent to authorization for continuous operation of the emission source for an entire calendar year, including leap years.

D. HEATING, VENTILATION, AIR CONDITIONING AND INTERNAL COMBUSTION ENGINES
Air contaminants discharged from any natural gas-fired heating, ventilation or air conditioning systems for buildings and any internal combustion engines 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.

E. AUTHORIZED WORKS AND PROCEDURES
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 permit holder shall regularly inspect and maintain all such works in good repair.

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

F. BYPASSES
The discharge of contaminants which have bypassed authorized control works during non-emergency conditions are prohibited unless approval has been obtained in writing from the District Director.

G. EMERGENCY PROCEDURES
In the event of an emergency that prevents compliance with a requirement(s) of this permit, that requirement(s) shall be suspended for such time as the emergency continues or until otherwise directed by the District Director, provided that:
1. Due diligence was exercised in relation to the process, operation or event that caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence; and,
2. The District Director is notified at the first available opportunity of the emergency 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. Due diligence is exercised in shutting down related processes and/or taking action to restore compliance in the shortest possible time frame, unless specified otherwise in this permit or by written notice from the District Director.

Notwithstanding 1, 2 and 3 above, the District Director may specify contingency actions to be implemented to protect human health and the environment while authorized works and/or standard operating procedures are being restored.

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.

Date Issued: December 07, 1992
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Ray Robb, District Director
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SECTION 3 – REPORTING REQUIREMENTS

A. MONITORING REQUIREMENTS AND REPORTING

Unless otherwise approved 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 approval from the District Director.

A minimum of 3 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, Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email regulationenforcement@metrovancouver.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.
GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

The permit holder shall conduct the following monitoring and sampling and submit written and/or electronic reports of the results to the District Director by the dates specified below.

<table>
<thead>
<tr>
<th>SOURCE</th>
<th>DUE DATE</th>
<th>FREQUENCY</th>
<th>REQUIREMENT</th>
<th>PARAMETER(S)</th>
<th>TEST METHOD</th>
<th>REPORT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>September 30, 2011</td>
<td>Every 2 Years</td>
<td>Written report detailing the measured discharge rate and concentration of particulate matter, hydrogen chloride and zinc in the emissions.</td>
<td>Hydrogen Chloride, Particulate Matter, Zinc</td>
<td>EPA Method 1, EPA Method 5, EPA Method 26</td>
<td>Stack</td>
</tr>
<tr>
<td>13, 47</td>
<td>September 30, 2011</td>
<td>Every 2 Years</td>
<td>Written report detailing the measured discharge rate and concentration of particulate matter and zinc in the emissions.</td>
<td>Particulate Matter, Zinc</td>
<td>EPA Method 5, EPA Method 1</td>
<td>Stack</td>
</tr>
<tr>
<td>40</td>
<td>September 30, 2011</td>
<td>Every 2 Years</td>
<td>Written report detailing the measured discharge rate and concentration of particulate matter in the emissions.</td>
<td>Particulate Matter</td>
<td>EPA Method 5, EPA Method 1</td>
<td>Stack</td>
</tr>
<tr>
<td>01</td>
<td>September 30, 2011</td>
<td>Every 2 Years</td>
<td>Written report detailing the measured discharge rate and concentration of hydrogen chloride in the emissions.</td>
<td>Hydrogen Chloride</td>
<td>EPA Method 1, EPA Method 26</td>
<td>Stack</td>
</tr>
</tbody>
</table>
B. INFORMATION REPORTING REQUIREMENTS

The Permit holder shall submit written and/or electronic reports containing the required information to the District Director by the dates specified below.

<table>
<thead>
<tr>
<th>EMISSION SOURCE</th>
<th>DUE DATE</th>
<th>FREQUENCY</th>
<th>REQUIREMENT</th>
<th>REPORT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>March 31, 2010</td>
<td>Yearly</td>
<td>Written report providing details of the types and amounts of fuel burned in the preceding calendar year.</td>
<td>Fuel Use</td>
</tr>
<tr>
<td>Facility</td>
<td>March 31, 2010</td>
<td>Yearly</td>
<td>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.</td>
<td>Solvent Use</td>
</tr>
<tr>
<td>13, 37, 40, 47, 50, 51</td>
<td>March 31, 2010</td>
<td>Yearly</td>
<td>Written report summarizing inspection frequency, bag condition and action taken or proposed to solve any problems detected for the baghouse for the previous calendar year.</td>
<td>Baghouse</td>
</tr>
<tr>
<td>Facility</td>
<td>March 31, 2010</td>
<td>Yearly</td>
<td>Written report providing details of the types and amounts of principle products produced and principal raw materials used in the preceding calendar year.</td>
<td>Materials and Products</td>
</tr>
<tr>
<td>01, 06</td>
<td>March 31, 2010</td>
<td>Yearly</td>
<td>Written report summarizing the inspection and maintenance program conducted during the previous calendar year on the scrubber described in Section 1 of this permit.</td>
<td>Scrubber</td>
</tr>
</tbody>
</table>
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.

Date Issued: December 07, 1992

Ray Robb, District Director
Permit GV/A0164
Section 4 - Site Plan

Greater Vancouver Regional District Air Quality Management Permit

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

Legal Description of Discharge Site: