



Policy & Planning Department, Regulation & Enforcement Division, Telephone: 604-432-6200 Fax: 604-436-6707

## PERMIT GVA0370

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

**Nutreco Canada Inc.**

located at

**1350 and 1370 East Kent Ave., Vancouver, B.C. V5X 2Y2**

is authorized to discharge air contaminants to the air from a  
**Fish Feed Manufacturing Plant**

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.

Date Issued: November 30, 1992

Date Amended: **SEP 04 2008**  
(most recent)

Silvano Padovan, Assistant District Director  
Permit GVA0370

**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:**

**300 hp Cleaver Brooks Process Steam Boiler discharging through a Stack.**

Maximum Emission Flow Rate: **70 m<sup>3</sup>/min**  
Maximum Operating Hours: **24 hrs/day, 8760 hrs/yr**  
Maximum Operating Days: **7 days/week, 365 days/yr**  
Maximum Input Firing Rate: **13.2 GJ/hr**

Maximum Emission Quality:

1. **Combustion products: Typical products of natural gas combustion at the maximum firing rate specified above.**

Works and Procedures

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

**EMISSION SOURCE 02:**

**A Wenger Series III Dryer and an Aeroglide Dryer discharging through a Biofilter.**

Maximum Emission Flow Rate: **1275 m<sup>3</sup>/min**  
Maximum Operating Hours: **24 hrs/day, 8760 hrs/yr**  
Maximum Operating Days: **7 days/week, 365 days/yr**

Maximum Emission Quality:

1. **10% Opacity** [based on a six minute average].
2. **No odours beyond the plant boundary such that the District Director determines that pollution has occurred.**

Works and Procedures:

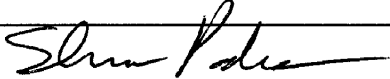
Venturi scrubber, packed tower, de-mister, fogging sprays, water sprays, soaker hoses, Biofilter #1, and related appurtenances together with good operating practices.

**EMISSION SOURCE 03:**

**Rail Car Unloading System discharging through a Stack.**

Maximum Emission Flow Rate: **33 m<sup>3</sup>/min**  
Maximum Operating Hours: **24 hrs/day, 8760 hrs/yr**  
Maximum Operating Days: **7 days/week, 365 days/yr**

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Permit GVA0370

**GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT BYLAW PERMIT**

**EMISSION SOURCE 03** (Continued):

Maximum Emission Quality:

1. **10% Opacity** [based on a six minute average].
2. **20 mg/m<sup>3</sup> Particulate Matter.**
3. **No odours beyond the plant boundary such that the District Director determines that pollution has occurred.**

Works and Procedures:

Dust collection and filter system together with good operating practices.

**EMISSION SOURCE 04:**

**250 hp Cleaver Brooks Process Steam Boiler discharging through a Stack.**

Maximum Emission Flow Rate: **58 m<sup>3</sup>/min**

Maximum Operating Hours: **24 hrs/day, 8760 hrs/yr**

Maximum Operating Days: **7 days/week, 365 days/yr**

Maximum Input Firing Rate: **11.08 GJ/hr**

Maximum Emission Quality:

1. **Combustion products: Typical products of natural gas combustion at the maximum firing rate specified above.**

Works and Procedures:

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

**EMISSION SOURCE 05:**

**Two Wenger X-185 Grinders, extruders, and coolers; and building ventilation discharging through a Biofilter.**

Maximum Emission Flow Rate: **1699 m<sup>3</sup>/min**

Maximum Operating Hours: **24 hrs/day, 8760 hrs/yr**

Maximum Operating Days: **7 days/week, 365 days/yr**

Maximum Emission Quality:

1. **10% Opacity** [based on a six minute average].
2. **No odours beyond the plant boundary such that the District Director determines that pollution has occurred.**

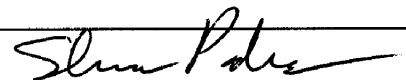
Works and Procedures:

Two baghouses, venturi scrubber, packed tower, de-mister, fogging sprays, water sprays, soaker hoses, Biofilter #1 (until start-up of Biofilter #2, at which time Biofilter #2 will become part of the control works for this emission source), and related appurtenances together with good operating practices.

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**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 Bylaw and Act.

**C. STANDARD CONDITIONS AND DEFINITIONS**


Except where otherwise indicated, the following standard conditions and definitions apply 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% O<sub>2</sub> for natural gas and fuel oil;
  - 8% O<sub>2</sub> for wood fuel;
  - 15% O<sub>2</sub> for turbines.
3. 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. Standby fuel use is restricted to those periods during which the primary authorized fuel is not available. Fuel oil sulphur content shall not be greater than 0.0015% by weight.
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 at the time of Permit issuance or amendment.
8. Sulphur Oxides (SOx) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NOx) are expressed as Nitrogen Dioxide.

**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.

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Permit GVA0370

**GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT BYLAW PERMIT**

**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 the 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.

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Permit GVA0370

**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 [regulation&enforcement@metrovancover.org](mailto:regulation&enforcement@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.

No sampling is required at this time. However, the need for increased monitoring may be reviewed periodically by the District Director.

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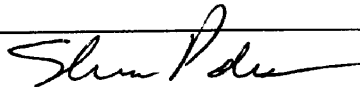
**GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT BYLAW PERMIT**

**B. INFORMATION REPORTING REQUIREMENTS**

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

<b>EMISSION SOURCE</b>	<b>DUE DATE</b>	<b>FREQUENCY</b>	<b>REQUIREMENT</b>	<b>FORM(S)</b>
01, 02, 04, 05	March 31, 2009	Annually	Written report providing details of the total number of hours and days operated in the preceding calendar year. Detailed records are to be maintained in a written bound log or other format approved by the District Director and made available for inspection by Metro Vancouver staff for a minimum period of three years.	H
03, 05	March 31, 2009	Annually	Written report indicating frequency and result of the inspection, maintenance, and monitoring frequency of the baghouse/dust collection and filter system. This report shall also include any actions taken or proposed to solve any problems detected.	B
02	March 31, 2009	Annually	Written report indicating inspection frequency, condition, and action taken or proposed to solve any problems detected for the biofilter described in Section 1 of the Permit. The biofilter shall be monitored daily for process air temperature, volumetric air flow, differential pressure across biofilter media, and bed media temperature (as prescribed by the Operation and Maintenance Manual, updated from time to time). This record is to be maintained and made available for inspection by Metro Vancouver staff for a minimum period of three years.	-
05	March 31, 2009	Annually	Written report indicating inspection frequency, condition, and action taken or proposed to solve any problems detected for the biofilter described in Section 1 of the Permit. The biofilter shall be monitored daily for process air temperature, volumetric air flow, recirculation volumetric flow rate, blow down flow rate, differential pressure across humidification packing, differential pressure across biofilter media, irrigation volumetric flow rate, irrigation line pressure, and bed media temperature (as prescribed by the Operation and Maintenance Manual, updated from time to time). This record is to be maintained and made available for inspection by Metro Vancouver staff for a minimum period of three years.	-
General	March 31, 2009	Annually	Written report providing details of the types and amounts of fuel burned in the preceding calendar year.	C-1

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 Permit GVA0370

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**B. INFORMATION REPORTING REQUIREMENTS (Continued)**

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

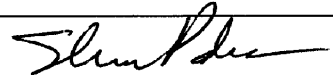
<b>EMISSION SOURCE</b>	<b>DUE DATE</b>	<b>FREQUENCY</b>	<b>REQUIREMENT</b>	<b>FORM(S)</b>
General	March 31, 2009	Annually	Written report providing details of the types and amounts of principle products produced and principal raw materials used in the preceding calendar year.	M
General	March 31, 2009	Annually	The quantity of natural gas burned shall be continuously monitored and in a manner acceptable to the District. This continuous record is to be maintained and made available for inspection by Metro Vancouver staff for a minimum period of three years.	-

**C. AMENDED OR ADDITIONAL REQUIREMENTS**

Based on 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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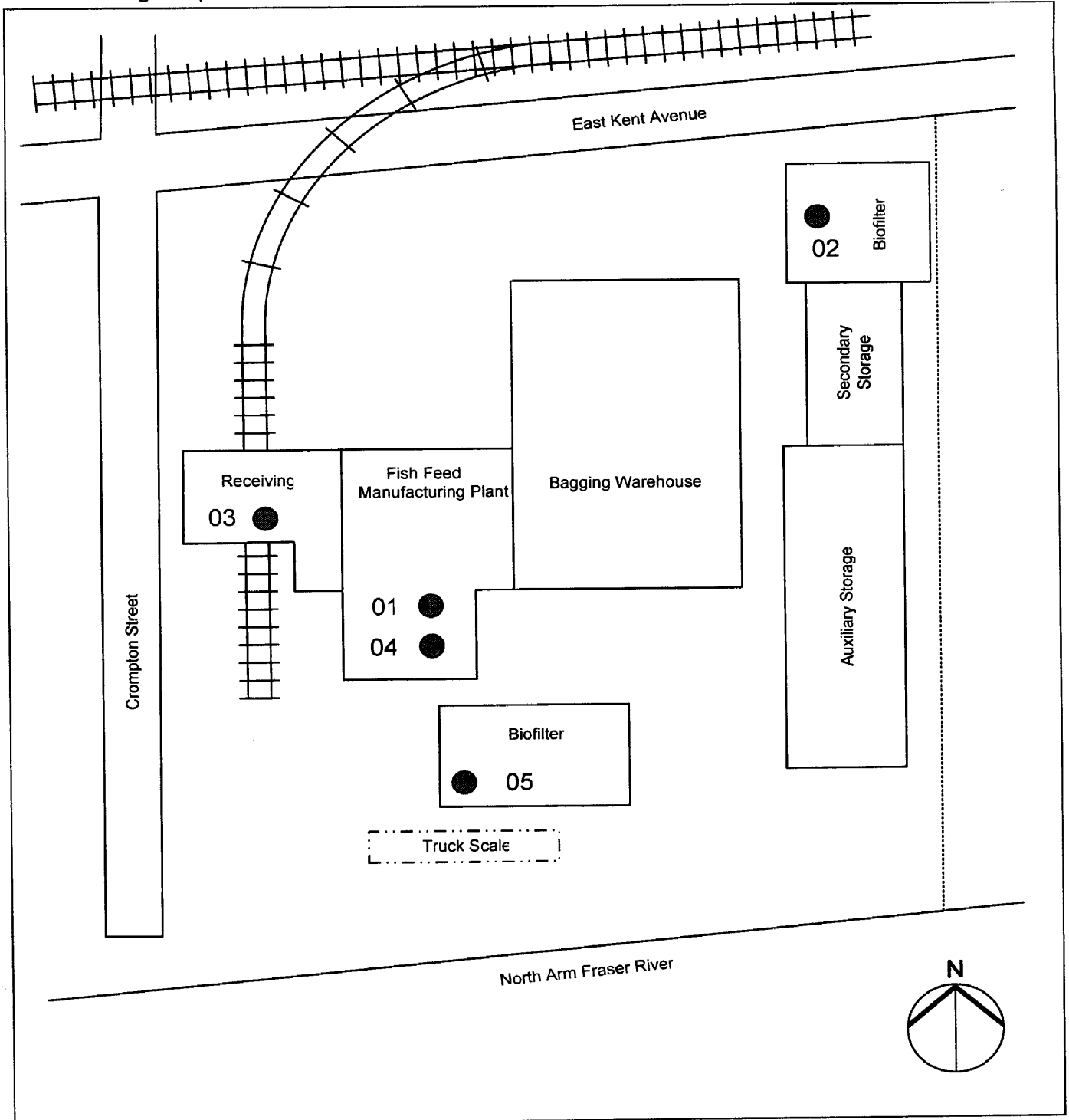
  
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**SECTION 4 – SITE PLAN**

**City of Vancouver, Lot A, Block S, Plan 21206, District Lot 327 Plan 21206, and Block T, Plan 3402, District Lot 327, New Westminster Land District**

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



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