



## PERMIT GVA0615

**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:**

Viterra Inc. (Cascadia)  
(the "Permittee")

**To Authorize:**

the discharge of air contaminants to the air from  
Grain Terminal

**Located at:**

3333 New Brighton Road, Vancouver, BC V5K 5J7


**Effective Period:**

The terms and conditions set out in the Permit apply to the existing or planned works as of  
February 14, 2019 and this permit will expire on March 31, 2022.

All previous versions of this Permit are invalid.

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Issued: February 19, 1999  
Amended: February 14, 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:** C-FU901 Annex 4 Lower Mezzanine - Annex 1 Bintop Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **296** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Carter Day RF baghouse (C-FU901) and related appurtenances together with good operating practices.

**EMISSION SOURCE 02:** C-FUB1 Annex 4 Lower Mezzanine - Annex 4 Basement Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **667** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:


Simon Day JP baghouse (C-FUB1 DU602) and related appurtenances together with good operating practices.

**EMISSION SOURCE 03:** C-FUB2 Annex 4 Lower Mezzanine - Annex 4 Jacklegs & Transfer Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **446** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

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**MAXIMUM EMISSION QUALITY:**

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

**WORKS AND PROCEDURES:**

Simon Day JP baghouse (C-FUB2 DU605) and related appurtenances together with good operating practices.

**EMISSION SOURCE 04: C-FUB3 Annex 4 Lower Mezzanine - Annex 4 Bintop Aspiration discharging through a Baghouse Exhaust(s).**

**MAXIMUM EMISSION FLOW RATE: 602 m<sup>3</sup>/min**  
**MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y**

**MAXIMUM EMISSION QUALITY:**

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

**WORKS AND PROCEDURES:**

Simon Day JP baghouse (C-FUB3 DU607) and related appurtenances together with good operating practices.

**EMISSION SOURCE 05: C-FU557 Main Roadway - Annex 1 Basement Aspiration discharging through a Baghouse Exhaust(s).**

**MAXIMUM EMISSION FLOW RATE: 603 m<sup>3</sup>/min**  
**MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y**

**MAXIMUM EMISSION QUALITY:**


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

**WORKS AND PROCEDURES:**

Carter Day RF baghouse (C-FU557) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 06:** C-FU559 Main Roadway - Annex 2 Basement Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 600 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Carter Day RF baghouse (C-FU559) and related appurtenances together with good operating practices.

**EMISSION SOURCE 07:** C-FU900 Main Roadway – Workhouse 1 #4 Section Cleaner Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 723 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Mac RF baghouse (C-FU900) and related appurtenances together with good operating practices.

**EMISSION SOURCE 08:** C-VSWH1-FU Workhouse 1 Half Roof - Workhouse 1 Vacuum System discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 25 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Garner Denver baghouse (C-VSWH1-FU) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 10: C-FU101 Main Roadway Workhouse 1 Cleaner Floor Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **843** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU101) and related appurtenances together with good operating practices.

**EMISSION SOURCE 11: C-FU102 Main Roadway Workhouse 1 Upper Floors Canola System Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **844** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU102) and related appurtenances together with good operating practices.

**EMISSION SOURCE 12: C-FU103 Main Roadway Workhouse 1 Basement Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **739** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU103) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 13: C-FU104 Main Roadway Workhouse 1 Top Floor Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **818** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU104) and related appurtenances together with good operating practices.

**EMISSION SOURCE 14: C-FU105 Main Roadway Workhouse 1 Bin Floor Belts Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **881** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU105) and related appurtenances together with good operating practices.

**EMISSION SOURCE 15: C-FU106 Main Roadway Workhouse 1 Bins & Distributors Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **1019** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU106) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 16: C-FU107 Main Roadway Workhouse 1 Shipping System Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **770** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU107) and related appurtenances together with good operating practices.

**EMISSION SOURCE 17: C-FU108 Main Roadway Workhouse 1 Basement Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **631** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU108) and related appurtenances together with good operating practices.

**EMISSION SOURCE 19: C-FU110 Main Roadway Workhouse 1 Shipping Belts Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **379** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU110) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 20: C-FU601 Annex 2 Rail Trestle - Receiving system #9 Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **815** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU601) and related appurtenances together with good operating practices.

**EMISSION SOURCE 21: C-FU602 Annex 2 Rail Trestle - Receiving System #10 Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **815** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU602) and related appurtenances together with good operating practices.

**EMISSION SOURCE 22: C-FU603 Annex 2 Rail Trestle - Receiving Belts & BSR Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **629** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU603) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 23:** C-FU702 Annex 2 Roof - Annex 2 Bintop Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 562 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Carter Day RF baghouse (C-FU702) and related appurtenances together with good operating practices.

**EMISSION SOURCE 24:** C-VSWH2-FU Annex 2 Roof - Workhouse 2 Vacuum System discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 25 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Garner Denver baghouse (C-VSWH2-FU) and related appurtenances together with good operating practices.

**EMISSION SOURCE 25:** C-PFU422 Workhouse 2 Half Roof - Pellet Mill Filter discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 366 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Hammer mill transport circuit, Carter Day RF baghouse (C-PFU422) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 26: C-PGST\_BV Pellet Plant Roof - Pellet Ground Screenings Tank Bin Vent discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **8.49** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8472** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

FlexClean baghouse (C-PGST\_BV) and related appurtenances together with good operating practices.

**EMISSION SOURCE 29: C-DUX105\_BV Compressor Building FT1 & FT2 Surge Tank Bin Vent discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **9.06** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8472** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-DUX105\_BV) and related appurtenances together with good operating practices.

**EMISSION SOURCE 30: C-FT1 Compressor Building - Dust Transportation Filter (Primary) discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **132** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4380** h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FT1) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 31: C-FT2 Compressor Building - Dust Transportation Filter (Backup) discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **132** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4380** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FT2) and related appurtenances together with good operating practices. ES#31 will operate only as backup to ES#30.

**EMISSION SOURCE 32: C-FM1 Workhouse 2 Scale Floor - Dust Transportation Filter (Primary) discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **181** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4380** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FM1) and related appurtenances together with good operating practices.

**EMISSION SOURCE 33: C-FM2 Workhouse 2 Scale Floor - Dust Transportation Filter (Backup) discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **181** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4380** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FM2) and related appurtenances together with good operating practices. ES#33 will operate only as backup to ES#32.

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**EMISSION SOURCE 39: C-FU201 Compressor Building Workhouse 2 Cleaner Floor Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **495** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8472** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU201) and related appurtenances together with good operating practices.

**EMISSION SOURCE 40: C-FU202 Compressor Building Workhouse 2 & Annex 3 Basement Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **559** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8472** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU202) and related appurtenances together with good operating practices.

**EMISSION SOURCE 41: C-FU-203 Compressor Building Workhouse 2 Basement Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **554** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8472** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU203) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 42: C-FU301 Annex 3 Rail Trestle - Workhouse 2 Upper Floor Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **906** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU301) and related appurtenances together with good operating practices.

**EMISSION SOURCE 43: C-FU302 Annex 3 Rail Trestle - Workhouse 2 Reclaim Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **962** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU302) and related appurtenances together with good operating practices.

**EMISSION SOURCE 44: C-FU303 Annex 3 Rail Trestle - Workhouse 2 Reclaim Aspiration discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **934** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

MAC RF baghouse (C-FU303) and related appurtenances together with good operating practices.

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**EMISSION SOURCE 45:** C-FU800 Annex 3 Roof - Annex 3 Bintop Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **417** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Carter Day RF baghouse (C-FU800) and related appurtenances together with good operating practices.

**EMISSION SOURCE 50:** C-FU554 Shipping Dock - Shipping Gallery West Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **515** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Four Carter Day RF baghouses and one Mac RF baghouse (C-FU554), dockspouts 2,4,6 + SRB1 + SGB11 and related appurtenances, together with good operating practices.

**EMISSION SOURCE 51:** C-FU555 Shipping Dock - Shipping Gallery East Aspiration discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **504** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Four Carter Day RF baghouses and one MAC RF baghouse (C-FU555), dockspouts 1,3,5,7 + SRB2 + SGB12 and related appurtenances, together with good operating practices.

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**EMISSION SOURCE 52: Loading of marine vessels at the West ship's berth discharging through a Marine Vessel Hold(s).**

**MAXIMUM EMISSION FLOW RATE: The rate of discharge is that resulting from the displaced air from loading operations**

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

**MAXIMUM DAILY THROUGHPUT OF BULK COMMODITIES: 65,280 tonnes/day**

**MAXIMUM ANNUAL THROUGHPUT OF BULK COMMODITIES: 7,500,000 tonnes/year**

**MAXIMUM EMISSION QUALITY:**

1. 20% Opacity.

**WORKS AND PROCEDURES:**

Good operating practices for containing and controlling fugitive dust emissions during loading operations.

Personnel conducting opacity surveys of ship loading must take immediate action if an opacity exceedance or upset condition is documented as per Fugitive Dust Mitigation Action Plan.

The permit holder must immediately notify Metro Vancouver at 604-436-6777 of any public complaints related to plant operations or the effectiveness of dust control during loading operations.

Wind speed and direction must be continuously monitored and recorded at the plant site during loading operations. Data must be provided to Metro Vancouver when requested.

**EMISSION SOURCE 53: Truck loading station discharging to the environment.**

**MAXIMUM EMISSION FLOW RATE: The rate of discharge is that resulting from the displaced air from loading operations.**

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

**MAXIMUM DAILY THROUGHPUT OF BULK COMMODITIES: 1,535 tonnes/day**

**MAXIMUM ANNUAL THROUGHPUT OF BULK COMMODITIES: 250,000 tonnes/year**

**MAXIMUM EMISSION QUALITY:**

1. 20% Opacity.

**WORKS AND PROCEDURES:**

Enclosure of the workhouse together with good operating practices for the operation of the loading spout.

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**EMISSION SOURCE 54: Pellet Mill Boiler - 95 HP discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: 17 m<sup>3</sup>/min

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 4.22 GJ/h

MAXIMUM EMISSION QUALITY:

1. 5% Opacity.

WORKS AND PROCEDURES:

Cleaver Brooks Model 5. Firing of the boiler with natural gas using good operating procedures.

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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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Issued: February 19, 1999  
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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.

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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.
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.

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
Facility	October 31, 2020	On or before October 31 for each subsequent year.	<p>Written report, in a format approved by the District Director, analyzing the PM<sub>2.5</sub>, PM<sub>10</sub> and dustfall measurements for the preceding calendar year of the approved ambient air quality monitoring station. The report should compare measurements to Metro Vancouver 24-hour rolling and annual average ambient objectives for PM<sub>2.5</sub> and PM<sub>10</sub> and the BC objective for dustfall in residential areas in both tables and figures. The report should also include graphical data analysis in the form of wind roses, pollutant roses, multi-year trends analyses, etc. The frequency of exceedance of Metro Vancouver objectives should be discussed. Results of investigations into observed exceedances of Metro Vancouver's ambient objectives for 24-hour rolling average PM<sub>2.5</sub> and PM<sub>10</sub> should be summarized. Exceedances that on the balance of probability the Facility contributed to, should be further analysed for common factors (e.g., product loaded, wind speed, wind direction).</p> <p>Ambient monitoring end date will be three full years after installation and commissioning of an approved ambient monitoring station.</p>	Particulate Matter	Those approved by the District Director	Monitoring - Other

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
Facility	July 31, 2019	Quarterly, on or before April 30, July 31, October 31 and January 31 of each year.	<p>Written report, in a format approved by the District Director, summarizing the 24-hour rolling average PM<sub>2.5</sub> and PM<sub>10</sub> observations and dustfall measurements from the approved ambient air quality monitoring station for the previous calendar quarter.</p> <p>If exceedances of Metro Vancouver's 24-hour rolling average ambient objectives are observed, the following must be provided for the period of the exceedance:</p> <ul style="list-style-type: none"> <li>-hours when loading and product loaded</li> <li>-hourly or sub-hourly PM<sub>2.5</sub> concentrations, PM<sub>10</sub> concentrations, wind speed and direction at both the air quality monitoring station and on site</li> <li>-concurrent ambient concentrations observed at nearby Metro Vancouver monitoring stations T4 (Burnaby - Kensington Park), T6 (N. Van - Second Narrows) and T24 (Burnaby North).</li> <li>- an assessment of the Permittee's contribution to the observed exceedances.</li> </ul> <p>Until such time as the approved air quality and meteorological monitoring equipment has been installed, this report can consist of an update on progress to implement the approved ambient air quality monitoring program.</p>	Particulate Matter	Those approved by the District Director	Monitoring - Other

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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.

<b>EMISSION SOURCE</b>	<b>INITIAL DUE DATE</b>	<b>SUBSEQUENT DUE DATES</b>	<b>REQUIREMENT</b>	<b>REPORT TYPE</b>
Facility	March 31, 2019	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, including amounts shipped by vessel and by truck.	Materials and Products
26, 29, 30, 31, 32, 33, 53, Facility, 39, 40, 41, 52	March 31, 2019	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. 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.	Operating Period
Facility	March 31, 2019	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, 2019	On or before March 31 for each subsequent year.	Written report indicating inspection frequency, bag condition and action taken or proposed to solve any problems identified for the baghouses described in Section 1 of this Permit.	Baghouse

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
Facility	March 31, 2019	On or before March 31 for each subsequent year.	Written report, referred to as the Fugitive Dust Mitigation Action Plan (FDMAP), summarizing plant site fugitive particulate emission sources and an assessment of overall site operations and actions to minimize the release of fugitive dust emissions in the facility. Include complaint handling protocols and documentation.	Information - Other
52, 53	March 31, 2019	Monthly, on or before the last day of each month.	Written report summarizing the daily loading rates in tonnes per day and materials loaded for each source for the preceding calendar month. Detailed records are to be maintained in a format approved by the District Director and made available for inspection by Metro Vancouver staff for a minimum period of three years.	Information - Other


**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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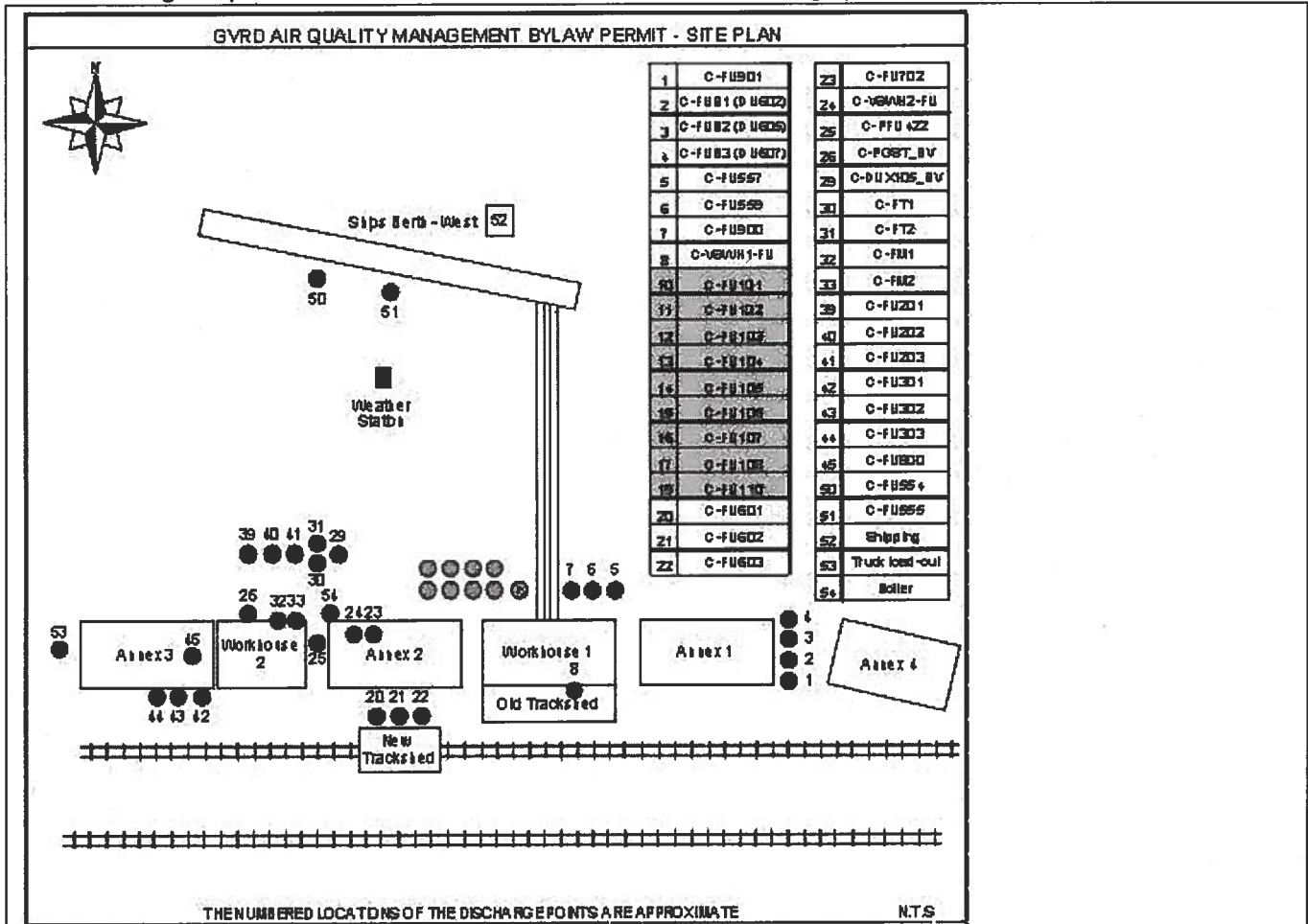


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**SECTION 4 – SITE PLAN**

LEGAL DESCRIPTION OF DISCHARGE SITE: "City of Vancouver Lot 620, except part outlined green on Explanatory Plan 2305 TOWN OF HASTINGS Plan 100. Those portions of Lots 545 and 546 shown as Parcel "A" (Explanatory Plan 2269), except portions shown below High Water Mark TOWN OF HASTINGS. Lot 497, except portion outlined green on Explanatory Plan 2306 TOWN OF HASTINGS. Lot 4, except that part included in Parcel "A" (Reference Plan 9213) Block "J" TOWN OF HASTINGS Plan 5461.

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



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