

PERMIT GVA1177

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:

Ewos Canada Ltd.
(the "Permittee")

To Authorize:

the discharge of air contaminants to the air from a
fish feed manufacturing plant

Located at:

7721 132nd Street, Surrey, BC V3W 4M8

Effective Period:

The terms and conditions set out in the Permit apply to the existing or planned works as of
December 01, 2020 and this Permit will expire on December 01, 2030.

Issued: November 27, 2020


Kathy Preston, Ph.D., P.Eng.
Assistant 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 03: Building plant air discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **850 m³/min**
MAXIMUM ANNUAL OPERATING HOURS: **8760 h/y**

MAXIMUM EMISSION QUALITY:

1. 0.9 mg/m³ Total Reduced Sulphur Compounds (as hydrogen sulphide)
2. 3.1 mg/m³ Total Volatile Organic Compounds
- 3a. 50 mg/ m³ Particulate Matter (until December 31, 2022)
- 3b. 20 mg/m³ Particulate Matter (effective January 1, 2023)
4. 10% Opacity

WORKS AND PROCEDURES:

Two fans (#1 and #2) routed to a combined stack with a venturi and packed tower acidic scrubber utilizing the addition of chlorine dioxide and related appurtenances, together with good operating practices in a manner that minimizes fugitive dust and odorous air contaminants.

Building Requirements:

All structures associated with this source must be under negative pressure with all air to be collected and directed to the scrubber system at all times.

By December 31, 2021, the Permittee must install pressure differential gauges to monitor continuously and record weekly the building-to-atmosphere differential pressure.

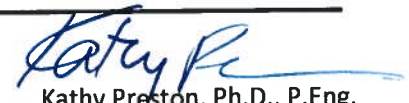
Chlorine Dioxide System:

The ChemE Solutions Model #AD chlorine dioxide system must provide chlorine dioxide continuously to the scrubber recycle tank as specified by the manufacturer or as necessary to control odorous air contaminants. The system must maintain a chlorine dioxide residual in the scrubber solution at a concentration greater than or equal to 0.1 parts per million (ppm).

Scrubber:

The permittee must monitor the chlorine dioxide addition rate, chlorine dioxide residual concentration, pH level, and scrubber solution temperature in a manner approved in writing by the District Director. These records must be kept and available for inspection by Metro Vancouver staff.

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The maximum temperature of the scrubber solution is 45 degrees Celsius. The scrubber solution must be maintained between a pH of 4 and 5.

By December 31, 2021, the Permittee must monitor continuously and record the temperature of the scrubber solution in a manner and location approved in writing by the District Director.

Other Requirements:

The permit holder must immediately notify Metro Vancouver at 604-436-6777 of any changes to plant operations or the control works which may cause a reduction in the effectiveness of odour control.

Stack Information:

Height (above ground): 29 m

Exhaust gas temperature: 31.7 degrees Celsius

Stack diameter: 0.91 m

Raincap: Yes

EMISSION SOURCE 05: Process air from one Wenger dryer, one Sprout Matador dryer, coating lines #1 and #2, and one blower fan discharging through a Stack(s).

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **12.66** GJ/h

MAXIMUM FUEL USE: **48563** GJ/y

Blower Fan – Operating Authorizations

MAXIMUM EMISSION FLOW RATE: **1700** m³/min

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

MAXIMUM EMISSION QUALITY:

1. 1.2 mg/m³ Total Reduced Sulphur Compounds (as hydrogen sulphide)
2. 2.6 mg/m³ Total Volatile Organic Compounds
- 3a. 28 mg/m³ Particulate Matter (Until December 31, 2022)
- 3b. 20 mg/m³ Particulate Matter (effective January 1, 2023)
4. 10% Opacity

Blower Fan – Not Operating Authorizations

MAXIMUM EMISSION FLOW RATE: 950 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 2628 h/y

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MAXIMUM EMISSION QUALITY:

1. 2.2 mg/m³ Total Reduced Sulphur Compounds (as hydrogen sulphide)
2. 4.5 mg/m³ Total Volatile Organic Compounds
- 3a. 50 mg/m³ Particulate Matter (until December 31, 2022)
- 3b. 20 mg/m³ Particulate Matter (effective January 1, 2023)
4. 10% Opacity

WORKS AND PROCEDURES:

Two process lines. All ducting and transfer points associated with this source must be under negative pressure with all air to be collected and directed to the scrubber system at all times.

Cyclones, venturi and packed tower acidic scrubber utilizing the addition of chlorine dioxide and related appurtenances, together with good operating practices conducted in a manner that minimizes fugitive dust and odorous air contaminants.

Chlorine Dioxide System:

The ChemE Solutions Model #AD chlorine dioxide system must provide chlorine dioxide continuously to the scrubber recycle tank as specified by the manufacturer or as necessary to control odorous air contaminants. The system must maintain a chlorine dioxide residual in the scrubber solution at a concentration greater than or equal to 0.1 parts per million (ppm).

Scrubber:

The permittee must monitor the chlorine dioxide addition rate, chlorine dioxide residual concentration, pH level, and scrubber solution temperature in a manner approved in writing by the District Director. These records must be kept and available for inspection by Metro Vancouver staff.

The maximum temperature of the scrubber solution is 45 degrees Celsius. The scrubber solution must be maintained between a pH of 4 and 5.

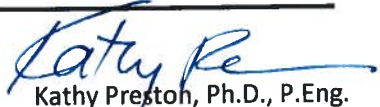
By December 31, 2021, the Permittee must monitor continuously and record the temperature of the scrubber solution in a manner and location approved in writing by the District Director.

Other Requirements:

Firing of the low-NOx dryers with natural gas using good combustion practices and operating procedures.

Wind speed and direction must be continuously monitored and recorded at the plant site. Data must be provided to Metro Vancouver staff upon request.

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The permit holder must immediately notify Metro Vancouver at 604-436-6777 of any changes to plant operations or the control works which may cause a reduction in the effectiveness of odour control.

Stack Information:

Height (above ground): 29.6 m

Exhaust gas temperature: 26.2 degrees Celsius

Stack diameter: 1.22 m

Raincap: Yes

EMISSION SOURCE 08: Building plant air (fugitive) discharging through doors and vents.

MAXIMUM EMISSION FLOW RATE: The rate of discharge is that resulting from air movements due to releasing of birds via rooftop vents and opening and closing of doors.

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

WORKS AND PROCEDURES:

Multiple roof top vents and building doors.

All activities must be conducted in a manner that minimizes fugitive dust and odorous air contaminants.

All roof top vents must be closed at all times except for those periods required to allow birds to exit the building.

All building doors must be equipped with automatic closure devices and maintained in good repair. All building doors must be closed at all times except for when personnel are entering or exiting the building or for the time required for one piece of equipment to be brought into or out of the building as required for maintenance and/or repair or for the time required to load or unload a truck per door.


By July 31, 2021, all building openings, above ground, other than access doors and make up air supply louvers, must be sealed to prevent exfiltration of odorous air contaminant emissions.

EMISSION SOURCE 09: Fish-, poultry-, and vegetable-oil heated storage tanks discharging through a Vent(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge is that resulting from passive vapour venting from heated tanks, active vapour venting from headspace displacement during tank filling of heated tanks, and unloading of railcars.

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

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WORKS AND PROCEDURES:

Six (6) electrically heated, fixed-roof storage tanks (IDs #1 to #6) equipped with vents for discharge to atmosphere and related appurtenances.

Storage of poultry oil (2 tanks), fish oil (3 tanks), and vegetable oils (1 tank) must be conducted using good operating practices and in a manner that minimizes odorous air contaminants.

Maximum tank filling rate = 20 tonnes per hour (per individual tank)

Maximum tank filling hours = 1800 hours per year (aggregate for all six tanks)

Vent Information:

Height (minimum, above ground): 5.0 m

Exhaust gas temperature: 40 degrees Celsius

Stack diameter: 0.1 m


Raincap: Yes

EMISSION SOURCES 03, 05, 08, and 09: Facility-Wide Restriction

1. Discharge of Odorous Air Contaminants

Notwithstanding any other requirements in this Permit, the discharge of odorous air contaminants from the facility in such quantity and quality that a Metro Vancouver Officer is able to recognize the facility odour for more than five minutes in any ten-minute period at greater than 100 m from the facility fence line is prohibited.

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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, must be employed during all operating periods of the related sources. The Permittee must 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 must be made to Metro Vancouver's 24-hour number: 604-436-6777, or to regulationenforcement@metrovancouver.org.

C. POLLUTION NOT PERMITTED

Notwithstanding any conditions in this permit, no person may 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 must:

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 must be made to Metro Vancouver's 24-hour number: 604-436-6777; and

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3. Take appropriate remedial action for the prevention or mitigation of pollution.

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 must 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% O₂ for natural gas and fuel oil; or
 - 8% O₂ 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_x) are expressed as Sulphur Dioxide.

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9. Nitrogen Oxides (NO_x) 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.
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.

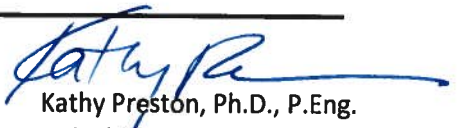
H. RECORDS RETENTION

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

Any natural gas-fired heating, ventilation or air conditioning system for buildings and any internal combustion engine located at the discharge site must 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 must 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@metrovanancouver.org).

Unless otherwise specified, sampling must 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 must be reported in the metric units that are used in this permit. These submissions must include process data relevant to the operation of the source of the emissions and the performance of the emission control works.

Unless otherwise specified or approved in writing by the District Director, stack sampling must not occur more than 120 calendar days prior to the due dates specified below.

The Permittee must conduct the following monitoring and sampling and submit electronic reports of the results to the District Director by the due dates specified in the following table 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 TITLE/TYPE
05	October 31, 2021	N/A	Submit a written report detailing the measured discharge rate and concentration of nitrogen oxides (as nitrogen dioxide) in the emissions. Sampling must be conducted at the outlet of each individual dryer.	Nitrogen Oxides	EPA Test Method 7E	Dryer NOx Verification Testing Monitoring - Other
03, 05	June 30, 2022	N/A	Submit a written report detailing the measured discharge rate and concentration in the emissions. Sampling must be completed in accordance with an approved Stack Test Sampling Plan.	Particulate Matter, Total Reduced Sulphur Compounds, Total Volatile Organic Compounds	EPA Test Method 5, Those approved by Metro Vancouver	Stack Test Stack
03, 09, 05	October 31, 2025	N/A	Submit a written report, including all consultant and laboratory reports, detailing the concentration of odour (in odour units per cubic meter), discharge rate of odour (in odour units per second), and discharge flow rate in the emissions(s). Sample collection and analysis must be consistent with procedures specified in EN 13725:2003 "Air Quality - Determination of Odour Thresholds by Dynamic Dilution Olfactometry". Sampling must be conducted in accordance with a previously approved sampling plan.	Odorous Air Contaminants	CEN Test Method EN13725:2003	Odorous Air Contaminants Emissions Testing Report Stack

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B. INFORMATION REPORTING REQUIREMENTS

The Permittee must submit electronic reports containing the required information to the District Director by the due dates specified in the following table using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TITLE/TYPE
03, 05	January 31, 2021	N/A	Submit for review, comment, and written approval by the District Director a plan for the maintenance and inspection of the cyclones, scrubbers, chlorine dioxide generator, neutralizing agent injection system, and related works. The plan must include specific inspection and maintenance schedules and frequencies.	Scrubber Maintenance and Inspection Plan Information - Other
Facility, 05	March 31, 2021	On or before March 31 for each subsequent year.	Written report detailing the types and amounts of fuel burned in the preceding calendar year. Fuel use is to be apportioned to the steam boilers and natural-gas fired dryers (Dryer #1 (Wenger) and Dryer #2 (Sprout Matador)).	Fuel Use
Facility	March 31, 2021	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
03, 08, 09, 05	March 31, 2021	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


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05	March 31, 2021	On or before March 31 for each subsequent year.	Written report detailing the number of hours the blower fan is utilized and not utilized for the process stack in the previous calendar year.	Process Stack Blower Usage Report Information - Other
09	March 31, 2021	On or before March 31 for each subsequent year.	Written report detailing the total aggregated filling hours of the six heated storage tanks in the preceding calendar year. The report must also include data describing the individual tank filling rates (in tonnes per hour) during loading events in the preceding calendar year. The report must also summarize the materials stored in each tank and the annual throughput for each tank for the preceding calendar year.	Storage Tank Report Information - Other
03, 05	March 31, 2021	On or before March 31 for each subsequent year.	Written report detailing the dates of inspection of the cyclone(s), scrubber(s), chlorine dioxide generator, neutralizing agent injection system and related works. The report must also contain a summary of all maintenance performed during the previous calendar year. The report must be in accordance with a Scrubber Maintenance and Inspection Plan approved by the District Director.	Scrubber Maintenance and Inspection Report Information - Other
03, 08, 09, Facility, 05	September 30, 2021	On or before September 30 for each	Submit for review, comment, and written approval by the District Director an Odour and Air Quality Complaint Management Plan that must include, but is not limited to, activities and procedures surrounding odour prevention, accountability, progressive odour mitigation, and complaint management.	Odour and Air Quality Complaint


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		subsequent year.	<p>The plan, prepared by a Qualified Professional*, must:</p> <ul style="list-style-type: none"> - Identify all existing and proposed sources likely to emit odorous air contaminants, including during both normal and abnormal conditions (meteorological and operational) - Describe all sources with accurate dimensions, geometry and location to scale on a map with estimated frequency of odour (in odour units per cubic m³) for each source - Identify any process controls (mitigation, monitoring and management) to be implemented for odorous air contaminant sources, including selection of critical operational parameters to be used for monitoring that are indicative of process performance and can be used to identify malfunctions that may result in odorous air contaminant emissions - Specify monitored parameters (operational and/or environmental), including their trigger levels, that will be used to initiate corrective actions when trigger levels are reached - Specify corrective actions to be implemented in case of process malfunction when trigger levels are reached and a method of evaluating corrective actions for effectiveness - Specify an odour contingency response plan with actions to be implemented if corrective actions are not successful - Specify procedures for odour complaint tracking, recording and management, including, but not limited to, community field assessments and correlation with meteorological conditions and plant operations - Specify a procedure for response to public complaints (including those received by Metro Vancouver and forwarded to the facility) regarding odours originating from the facility - Specify a procedure for forwarding of complaints received directly by the facility to Metro Vancouver via regulationenforcement@metrovancover.org. 	<p>Management Plan</p> <p>Information - Other</p>


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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TITLE/ TYPE
			<p>Subsequent annual submissions, provided for review, comment and written approval by the District Director, must consider any recommended updates to the plan and a summary of any findings, responses, and proposed remedial actions as outlined by the plan. Annual updates to the plan must also reflect any operational changes undertaken in the previous calendar year, including equipment and process upgrades.</p> <p>*As submitted by the permit holder using the most recent versions of the "Qualified Professional Declaration of Competency" and "Qualified Professional Conflict of Interest Disclosure Statement" forms, as available on the Metro Vancouver website.</p>	
03, 05	April 30, 2022	N/A	<p>Submit a written sampling plan, including proposed methodologies, for review and approval by Metro Vancouver prior to commencing sampling as required under this permit.</p> <p>Sampling of ES05 must be conducted with the blower fan on and off.</p>	<p>Stack Sampling Plan</p> <p>Information - Other</p>
Facility	April 30, 2023	N/A	<p>A plan to conduct the assessment of the air tightness of the building envelope of the facility buildings and air tightness of related structures is to be submitted to the District Director for review, comment, and written approval.</p> <p>The plan must include a timeline to conduct the assessment and the methodologies proposed for the assessment.</p>	<p>Building Envelope Assessment Plan</p> <p>Information - Other</p>
Facility	September 30, 2023	N/A	<p>Submit a written report, in accordance with an approved plan, of an assessment of the air tightness of the building envelope of the facility buildings and air tightness of related structures.</p>	<p>Building Envelope Assessment Report</p>

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TITLE/ TYPE
			<p>The report must be prepared by an independent Qualified Professional* with experience in the assessment of odorous buildings that require capture and control of all room air prior to release to atmosphere. It must discuss any applicable deficiencies in the structures that may lead to fugitive emissions due to openings (i.e., doors, vents or poor sealing), wind entrainment, differential pressure gradients, thermal gradient differences, leaks from external conveyance devices, and failure to maintain negative pressure at all points and at all times within the structures. The report must also include recommendations and timelines to address all deficiencies as well as recommendations for improving ongoing maintenance and repair.</p> <p>As part of the assessment, an inventory of all leaks and deficiencies must be developed and appended to the report.</p> <p>*As submitted by the permit holder using the most recent versions of the "Qualified Professional Declaration of Competency" and "Qualified Professional Conflict of Interest Disclosure Statement" forms, as available on the Metro Vancouver website.</p>	Information - Other
Facility	April 30, 2024	Every 2 years, on or before April 30 every second year, ending April 30, 2028.	<p>Submit an update to the Building Envelope Assessment Report summarizing the progress towards addressing all recommendations previously identified (deficiencies and improvements to ongoing maintenance and repair). The update report must also include an updated inventory of all leaks and deficiencies.</p>	Building Envelope Assessment Update Report
03, 09, 05	July 31, 2025	N/A	<p>Submit for review, comment, and written approval by the District Director a proposed sampling plan, including methodologies, to conduct odour emissions testing.</p>	Information - Other Odorous Air Contaminants


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Facility	March 31, 2027	N/A	<p>The plan must include a proposal for inlet and outlet sampling for odour (in odour units) and discharge flow rate of the control works associated with ES03 and ES05.</p>	Emissions Sampling Plan
Facility	March 31, 2027	N/A	<p>Submit for review and comment a dispersion modelling plan for written approval by the District Director. The plan must be developed using the most recent version of the British Columbia Air Quality Dispersion Modelling Guideline and the most recent version of the Metro Vancouver dispersion model plan template.</p> <p>Modelling is to be based on:</p> <ul style="list-style-type: none"> i. Measured maximum emissions and discharge flow rates. ii. Authorized maximum emission and discharge flow rates at both the blower fan operating and not operating conditions. 	Information - Other
Facility, 03, 08, 09, 05	September 30, 2027	N/A	<p>Submit for written approval by the District Director a report of the results of a dispersion modelling assessment of the potential cumulative impacts of air contaminant emissions from the facility. Modelling must be conducted in accordance with a dispersion model plan approved by the District Director and the most recent version of the British Columbia Air Quality Dispersion Modelling Guideline.</p> <p>The report must include the results of a dispersion modelling assessment of odorous air contaminants (in odour units), nitrogen oxides, total reduced sulphur (TRS) compounds, total volatile organics compounds (TVOC), and particulate matter.</p>	Dispersion Modelling Report

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TITLE/ TYPE
03, 09, 05	June 30, 2028	N/A	<p>Written report detailing a review of odorous air contaminant control equipment and technology available to control odorous air contaminants in the manufacture of fish feed.</p> <p>This report must be prepared by an independent Qualified Professional* knowledgeable in the field of odour control and management and must include information on the feasibility, costs and effectiveness of methods and control systems for the reduction of odorous air contaminants. The use of combined technologies for optimal odorous air contaminant removal efficiency must also be explored as a means for continuous improvement.</p> <p>The report must also contain a review and assessment of particulate matter and nitrogen oxides (NOx) reduction technologies available to reduce PM and nitrogen oxides (NOx) in the manufacture of fish feed.</p> <p>*As submitted by the permit holder using the most recent versions of the "Qualified Professional Declaration of Competency" and "Qualified Professional Conflict of Interest Disclosure Statement" forms, as available on the Metro Vancouver website.</p>	Technology Assessment Report - PM, Odour, NOx Reduction Information - Other



Kathy Preston, Ph.D., P.Eng.
Assistant District Director

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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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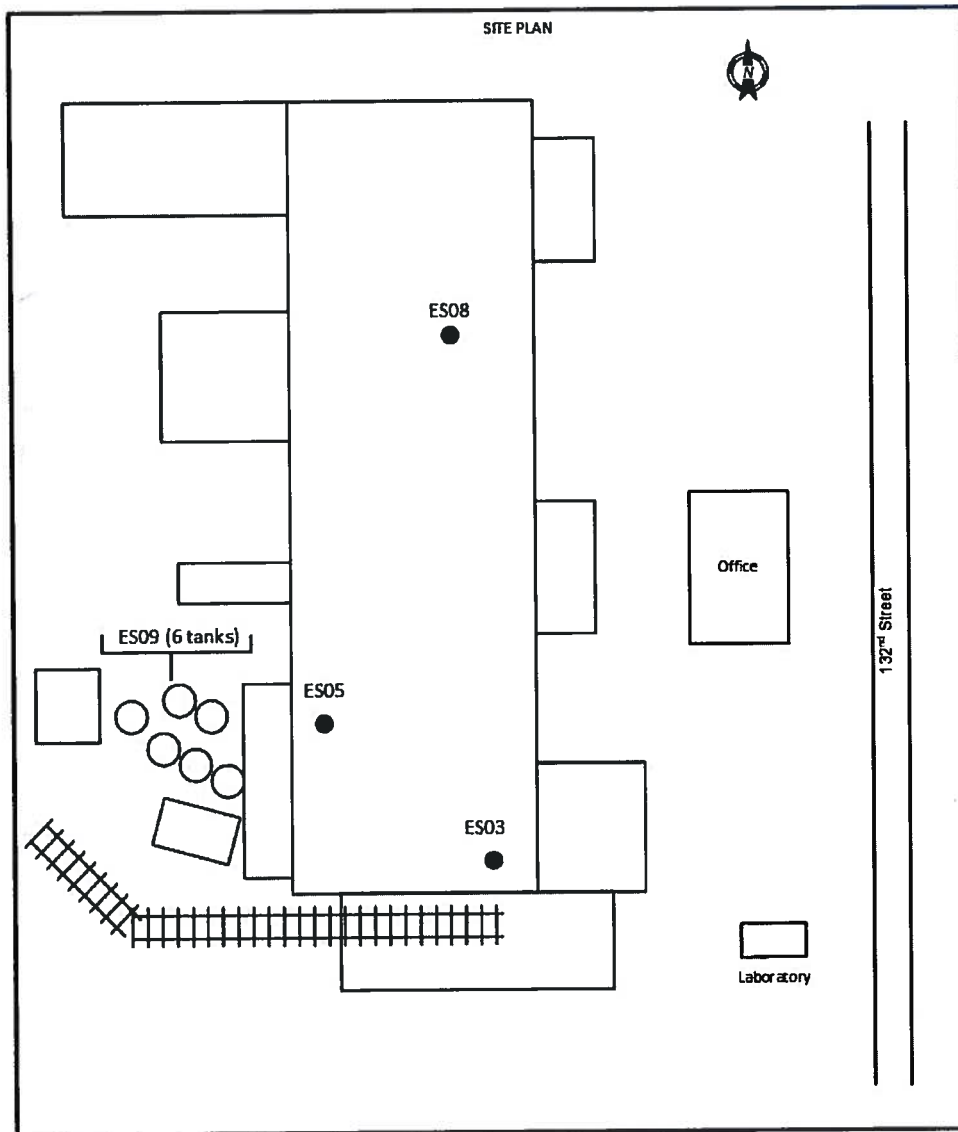
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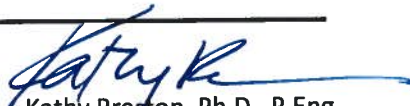
SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: "Municipality of Surrey, Parcel Identifier: 012-586-706, Lot (AB245319), Section 20, Township 2, New Westminster District, Plan 76363".

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



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