

APPROVAL GVU1184

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:

All Roads Construction Ltd.
(the "Approval Holder")

To Authorize:

the discharge of air contaminants to the air from
a hot mix asphalt facility

Located at:

2320 Rogers Avenue, Coquitlam, BC V3K 5X7

Effective Period:

The terms and conditions set out in the Approval apply to the existing or planned works as of
May 22, 2020 and this Approval will expire on December 18, 2020.

Issued: May 22, 2020


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

METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT APPROVAL

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: Natural gas-fired warm mix, hot mix asphalt (HMA) drum burner and aggregate dryer filtered through a baghouse discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **870** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **2200** h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **81** GJ/h

MAXIMUM EMISSION QUALITY:

1. 200 mg/m³ Carbon Monoxide corrected to 16% O₂
2. 40 mg/m³ Organics corrected to 16% O₂
3. 30 mg/m³ Particulate Matter
4. 10% Opacity

WORKS AND PROCEDURES:

The firing of the 275 tonnes/hour Gencor Ultra II low NOx natural gas-fired hot mix asphalt drum burner and aggregate dryer, using good combustion practices in conjunction with a Gencor Baghouse CFS151 with a Dwyer real time particulate monitoring system. All emissions from the slat conveyors and the top of 3 HMA silos are to be directed to Gencor's Top Silo Blue Smoke Capture System along with good operating practices.

Stack height (from ground level): 15 m
Stack inside Diameter at top: 1.37 m
Stack design: Vertical
Minimum stack exit temperature: 135 °C
Raincap: No

EMISSION SOURCE 02: Natural gas-fired hot oil heater used to heat three hot mix asphalt (HMA) silos and two asphalt cement (AC) storage tanks discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **12** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **7400** h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **2.2** GJ/h

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MAXIMUM EMISSION QUALITY:

1. 5% Opacity

WORKS AND PROCEDURES:

The firing of the natural gas-fired Hy-Way Helical Coil Thermal Fluid Heater, Model HYCGO-200 used to heat 3 HMA storage silos, 2 AC storage tanks and 1 emulsion storage tank equipped with vapour condensers, and employ good operating practices.

Stack height (from ground level): 4.6 m

Non-circular stack effective diameter: 0.33 m

Minimum stack exit temperature from the heater: 340 °C

Raincap: Yes

EMISSION SOURCE 03: Aggregate transfer from barge to a dump truck using a front end loader discharging from a dump truck bed.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring aggregate from barge to a dump truck.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.14 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 4 m) during transfer of aggregate using front-end loader, and employ good operating practices.


Maximum daily throughput limit of aggregate is 6,000 t/d.

EMISSION SOURCE 04: Aggregate transfer from a dump truck onto a stockpile discharging from a dump truck bed and stockpile.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring aggregates from a dump truck onto a stockpile.

MAXIMUM ANNUAL OPERATING HOURS: 7400 h/y

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MAXIMUM EMISSION QUANTITY:

1. 0.06 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Covered stockpiles (every second bin covered) enclosed on three sides to mitigate dust emissions to be installed by October 31, 2020.

Minimize drop height (maximum drop height 2 m) during transfer of aggregate, utilizing wet suppression through the use of a water truck, and employ good operating practices.

Maximum daily throughput limit of aggregate is 6,000 t/d.

EMISSION SOURCE 05: Aggregate transfer from stockpiles to cold feed bins using a front-end loader discharging from cold feed bins.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring aggregate from stockpiles to cold feed bins.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.14 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 4 m) during transfer of aggregate using front-end loader, and employ good operating practices.

Maximum daily throughput limit of aggregate is 2,200 t/d.

EMISSION SOURCE 06: Aggregate transfer from cold feed bins to conveyor belt discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring aggregate from cold feed bins to conveyor belts

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

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MAXIMUM EMISSION QUANTITY:

1. 0.04 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Transferring aggregate from cold feed bins using a chute to direct aggregate onto conveyor belt. Utilizing wet suppression through misting at transfer points. Minimize drop height (maximum drop height 2 m), and employ good operating practices.

Maximum daily throughput limit of aggregate is 2,200 t/d.

EMISSION SOURCE 07: Aggregate transfer from collector conveyor to scalping screen discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring aggregate from the collector conveyor to the scalping screen.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.04 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 2 m) during transfer of aggregate from conveyor to scalping screen, utilizing wet suppression through misting at transfer points, and employ good operating practices.

Maximum daily throughput limit of aggregate is 2,200 t/d.

EMISSION SOURCE 08: Aggregate scalping screen removing lumps and oversized material discharging through a scalping screen.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from screening aggregate material.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

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MAXIMUM EMISSION QUANTITY:

1. 0.53 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Utilizing wet suppression through misting at transfer points, and employ good operating practices.

Maximum daily throughput limit of aggregate is 2,200 t/d.

EMISSION SOURCE 09: Aggregate transfer from the scale conveyor to the drum conveyor discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: **The rate of discharge resulting from transferring aggregate from the scale conveyor to the drum conveyor.**

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.04 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 2 m) during transfer of aggregate from chute to conveyor. Utilizing wet suppression through misting at transfer points, and employ good operating practices.

Maximum daily throughput limit of aggregate is 2,200 t/d.

EMISSION SOURCE 10: Pre-crushed reclaimed asphalt pavement (RAP) delivered to site and dropped by dump truck onto a stockpile discharging from a dump truck bed and a stockpile.

MAXIMUM EMISSION FLOW RATE: **The rate of discharge resulting from dropping RAP from a dump truck onto RAP stockpile.**

MAXIMUM ANNUAL OPERATING HOURS: 7400 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.05 t/y Particulate Matter

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MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

Covered stockpiles enclosed on three sides to mitigate dust emissions to be installed by October 31, 2020.

Minimize drop height (maximum drop height 2 m) during transfer of RAP from truck to stockpile, utilizing wet suppression through the use of a water truck, and employ good operating practices.

Maximum daily throughput limit of RAP is 900 t/d.

EMISSION SOURCE 11: Reclaimed asphalt pavement (RAP) transfer from stockpiles to cold feed bins using a front-end loader discharging through cold feed bins.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from the transfer of RAP from stockpiles to cold feed bins.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.05 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 4 m) during transfer of RAP from stockpile to cold feed bins, and employ good operating practices.

Maximum daily throughput limit of RAP is 550 t/d.

EMISSION SOURCE 12: Reclaimed asphalt pavement (RAP) transfer from cold feed bins to a conveyor discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from transferring RAP from cold feed bins to a conveyor.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.05 t/y Particulate Matter

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MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 2 m) during transfer of RAP from chute to conveyor, and employ good operating practices.

Maximum daily throughput limit of RAP is 550 t/d.

EMISSION SOURCE 13: Reclaimed asphalt pavement (RAP) transfer from the collector conveyor to the scalping screen discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from the transfer of RAP from the collector conveyor to the scalping screen.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.05 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 2 m) during transfer of RAP from conveyor to scalping screen, and employ good operating practices.

Maximum daily throughput limit of RAP is 550 t/d.

EMISSION SOURCE 14: Reclaimed asphalt pavement (RAP) scalping screen removing lumps and oversized material discharging through a scalping screen.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from the screening of RAP.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.45 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 10% Opacity

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WORKS AND PROCEDURES:

Good operating practices.

Maximum daily throughput limit of RAP is 550 t/d.

EMISSION SOURCE 15: Reclaimed asphalt pavement (RAP) transfer from the scale conveyor to the drum conveyor discharging through a Transfer Point(s).

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from the transfer of RAP from the scale conveyor to the drum conveyor.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.05 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

Minimize drop height (maximum drop height 2 m) during transfer of RAP, and employ good operating practices.

Maximum daily throughput limit of RAP is 550 t/d.

EMISSION SOURCE 16: Hot mix asphalt (HMA) load-out to truck discharging from a truck bed.

MAXIMUM EMISSION FLOW RATE: The rate of discharge resulting from loading hot mix asphalt into a truck.

MAXIMUM ANNUAL OPERATING HOURS: 2200 h/y

MAXIMUM EMISSION QUANTITY:

1. 0.61 t/y Fugitive Volatile Organic Compounds
2. 0.11 t/y Particulate Matter

MAXIMUM EMISSION QUALITY:

1. 20% Opacity

WORKS AND PROCEDURES:

Good operating practices.

Maximum daily throughput limit of HMA is 2,750 t/d.

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SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. AUTHORIZED WORKS, PROCEDURES AND SOURCES

Works and procedures, which this Approval authorizes in order to control the discharge of air contaminants, shall be employed during all operating periods of the related sources. The Approval Holder 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 Approval are applicable on the issued or last amended date of this Approval 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 Approval. Notification shall be made to Metro Vancouver's 24-hour number: 604-436-6777, or to regulationenforcement@metrovancover.org.

C. POLLUTION NOT PERMITTED

Notwithstanding any conditions in this Approval, 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 Approval Holder that prevents effective operation of the authorized works or procedures or leads to unauthorized discharge, the Approval Holder 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

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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 shall also be reported immediately to the Provincial Emergency Program by telephoning 1-800-663-3456.

F. AMENDMENTS

The terms and conditions of this Approval 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 Approval:

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

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
01	September 30, 2020	N/A	Stack Test Report Written report detailing the measured discharge rate and emission concentrations.	Organics, Carbon Monoxide, Particulate Matter	Those approved by Metro Vancouver, EPA Test Method 25A	Stack

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B. INFORMATION REPORTING REQUIREMENTS

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

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
01	June 30, 2020	N/A	Stack Testing Plan Submit a written stack testing plan, including proposed methodologies, for review and approval by Metro Vancouver prior to commencing sampling as required under this Approval.	Information - Other
03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16	July 31, 2020	Quarterly, on or before April 30, July 31, October 31 and January 31 of each year.	Materials Throughput Report A written report in a format acceptable to the District Director detailing quarterly throughput of aggregate, reclaimed asphalt pavement and finished product (hot mix asphalt or warm mix asphalt) for each source in tonnes/day for the previous calendar quarter.	Information - Other
Facility	October 31, 2020	N/A	Odour Management Plan Submit for review, comment, and written approval by the District Director an Odour Management Plan that must include, but is not limited to, inventory of potential sources of odour, activities and procedures surrounding odour prevention, progressive odour mitigation, complaint handling protocols, and communication to the surrounding community if odours are noted in the community.	Information - Other

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
Facility	October 31, 2020	N/A	<p>Fugitive Dust Management Action Plan Written report for review and written approval by the District Director, summarizing plant site fugitive particulate emission sources, an assessment of overall site operations, actions to minimize the release of fugitive dust emissions at the facility and actions taken in response to any spills (dust releases). The plan should include but not be limited to: site maintenance/housekeeping information, opacity measurement surveys by trained staff, complaint handling protocols and any Standard Operating Procedures.</p>	Information - Other
01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, Facility	July 31, 2020	N/A	<p>Dispersion Model Report A final dispersion modelling report for review and approval by the District Director based on the model plan approved by Metro Vancouver on February 20, 2020 that addresses all Metro Vancouver comments, provided in a comment tracking table on May 06, 2020 and any follow-up comments.</p>	Dispersion Model
01	September 30, 2020	N/A	<p>Temperature Monitoring Submit a written report for review and approval by Metro Vancouver, of the daily minimum exhaust temperature during production of hot or warm mix asphalt for June, July and August.</p>	Information - Other


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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 Approval including plans, programs and studies.
2. Require additional investigations, tests, surveys or studies.

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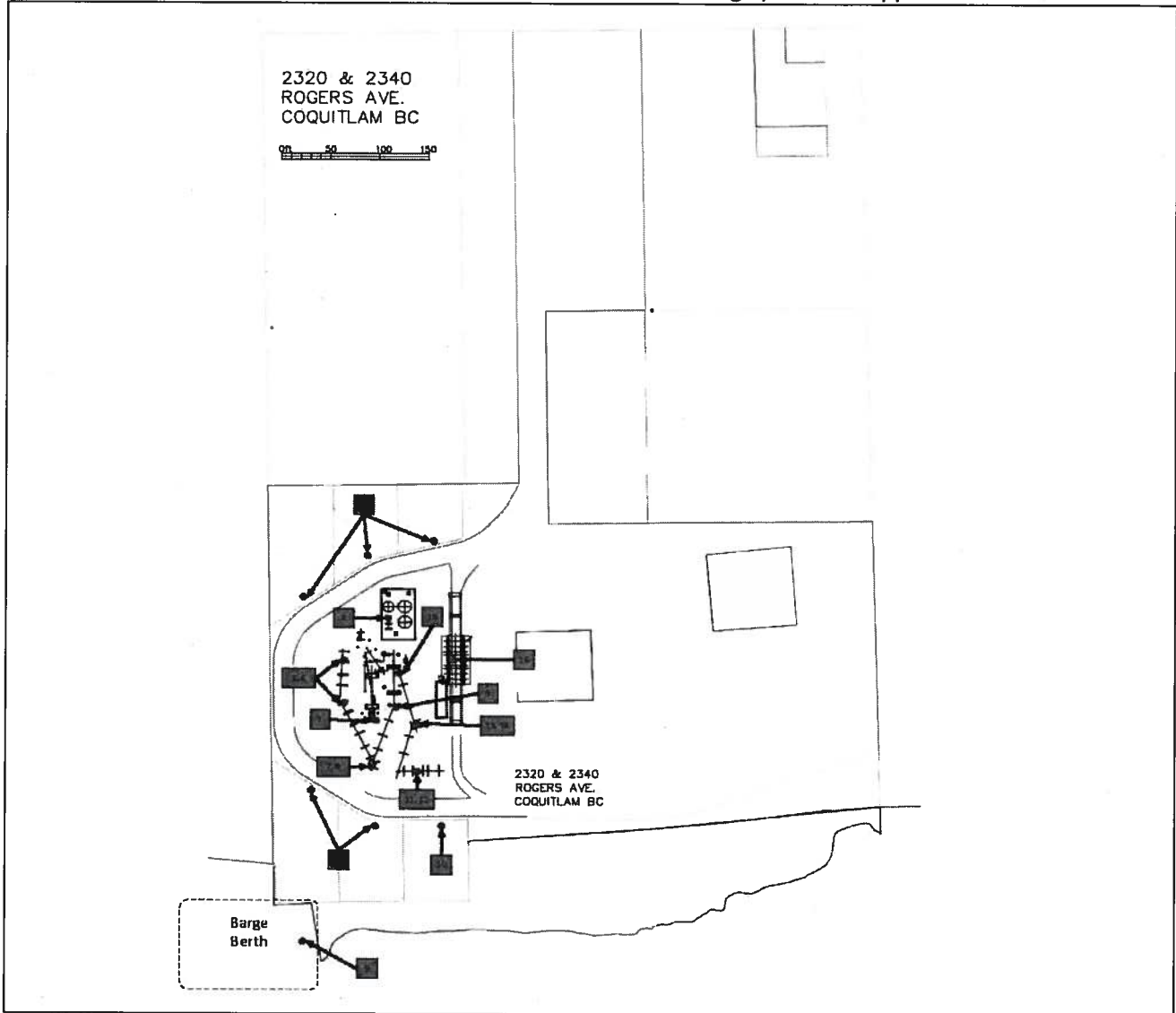
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SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: Lot 9 Except: Part Subdivided by Plan BCP26821; District Lot 21 Group 1 New Westminster District Plan 44102. PID: 000-934-658.

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



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