

Inspections

17. No person shall hinder or obstruct a Provincial Officer in the performance of their duties, including any and all inspections authorized by the OWRA, the EPA or the PA of any place to which this Certificate relates, and without limiting the foregoing to:

- a. enter upon the premises where the Site is located, or the location where the records required by the conditions of this Certificate are kept;
- b. have access to, inspect, and copy any records required by the conditions of this Certificate;
- c. inspect the practices, procedures, or operations required by the terms and conditions of this Certificate; and
- d. sample and monitor for the purposes of assessing compliance with the conditions of this Certificate or the EPA, the OWRA or the PA.

Information and Record Retention

18. Any information requested, by the Ministry, concerning the Site and its operation under this Certificate, including but not limited to any records required to be kept by this Certificate shall be provided to the Ministry, upon request. Records shall be retained for 2 years except for as otherwise authorized in writing by the Director.

19. The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Certificate or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:

- a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Certificate or any statute, regulation or other legal requirement; or
- b. acceptance by the Ministry of the information's completeness or accuracy.

OPERATIONS

Operations

20. This Site is approved for the processing (transfer, sorting, compaction) of municipal waste (and the periodic grinding of woodwaste on-site), limited as per the Conditions of this Certificate. The Site shall be operated and maintained, and the management and disposal of all waste shall be carried out, in accordance with the EPA, Regulation 347 and the conditions of this Certificate. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Hours of Operation

21. The hours of operation at the Site are Monday at 5:30am to Saturday at 4:30pm.

Service Area

22. Only waste that is generated in the Province of Ontario shall be accepted at the Site.

Waste Types

23. Only municipal waste limited to one or more of the following solid non-hazardous wastes shall be accepted at the Site:

- (a) construction and demolition waste;
- (b) industrial waste;
- (c) commercial waste;
- (d) residential waste;
- (e) recyclable materials, limited to:

- i. brick;
- ii. concrete;
- iii. woodwaste;
- iv. metals.

No putrescible waste, other than in incidental amounts, shall be accepted at the Site. In the event that any putrescible waste is discovered on-site, that waste shall be segregated and removed from the Site as promptly as possible.

Waste Limits

24. (a) The amount of waste received at the Site shall not exceed 669 tonnes per day. If for any reason waste cannot be transferred from the site, the Site shall cease accepting waste.

(b) The amount of waste shipped from the Site shall not exceed 559 tonnes per day.

25. The amount of waste stored at the Site shall not exceed the following weights or heights:

- (a) 533 tonnes of woodwaste, piled no higher than 4.9 metres (or as otherwise directed by the local Fire Department) in the designated area;
- (b) 125 tonnes of metal, piled no higher than 4.9 metres in the designated area;
- (c) 100 tonnes of brick and concrete total, piled no higher than 3.5 metres in the designated area;
- (d) 559 tonnes of all other wastes, piled no higher than 3.5 metres in the designated area.

Clear visual indicators shall be employed to ensure the height restrictions listed above are met.

26. All receiving, unloading, sorting, storage, loading, and all other transfer and processing of waste, shall be conducted indoors at all times.

27. Notwithstanding Condition 26 above, the following materials may not be processed outdoors, but may be received, unloaded, stored and loaded outdoors in designated areas:

- (a) metal;
- (b) brick;
- (c) concrete;
- (d) woodwaste.

Signage

28. A sign shall be posted and maintained at the entrance to the site in a manner that is clear and legible, and shall include the following information:

- a. the name of the Site and Owner;
- b. this Certificate number;
- c. the name of the Operator;
- d. the normal hours of operation;
- e. the allowed waste types, and any waste types explicitly prohibited by Conditions of this Certificate;
- f. a telephone number to which complaints may be directed;
- g. a twenty-four (24) hour emergency telephone number (if different from above); and
- h. a warning against dumping outside the Site.

Waste Inspection

29. All waste (including recyclable material) shall be inspected by Trained personnel prior to being accepted at the Site to ensure that the waste is of a type approved for acceptance under this Certificate. Unapproved waste shall not be accepted at the Site. Waste inspection shall include, as a minimum, the following:

- (a) visual inspection of the waste;

- (b) categorization of the waste types present; and
- (c) identification of the waste hauler.

Notwithstanding the Conditions of this Certificate, the Owner shall comply with all Canadian Food Inspection Agency requirements regarding the inspection, receipt, storage, processing and transfer of material potentially impacted by the Asian long horned beetle and/or other pests.

30. In the event that any waste load is refused, the Owner shall notify the District Manager within twenty-four (24) hours, and a record shall be made in the daily log book of the reason the waste was refused and the origin of the waste.

Incoming / Outgoing Waste

31. All incoming and outgoing wastes shall be inspected by Trained personnel prior to being received, transferred, processed and/or shipped to ensure all wastes are being managed and disposed of in accordance with the EPA and Reg. 347.

Labelling

32. All waste storage areas/containers at the Site shall have a label or sign clearly identifying the contents.

Vermin, etc.

33. (a) The Site shall be operated and maintained such that vermin, vectors, dust, litter, odour, noise and traffic do not create a nuisance. The Owner shall implement the nuisance control measures listed in Item 1 of Schedule "A" as required to ensure compliance.

(b) Within sixty (60) days of the date of issuance of this Certificate, the Owner shall submit to the Director for approval details of a door or other structure designed to enclose the waste storage building, including (but not limited to) the following:

- (i) a written description of the door/structure and its operation; and
- (ii) final drawings of the door/structure.

(c) Within sixty (60) days of the date of issuance of this Certificate, the Owner shall submit to the Director for approval details of all site surfacing to prevent impacts due to dust generation, including (but not limited to) the following:

- (i) a written description of the type and location of all site surfacing;
- (ii) a final site plan showing all site surfacing.

(d) Within one (1) year of the date of issuance of this Certificate, the Owner shall submit to the District Manager details of an air monitoring study to be undertaken by the Owner to ensure compliance with all applicable particulate standards, including (but not limited to) the following:

- (i) a written description of the monitoring and sampling procedures to be employed;
- (ii) a list of equipment to be used;
- (iii) a description of the particulate standards to be used for comparison;
- (iv) a schedule for carrying out the air monitoring study; and
- (v) any additional information the District Manager may require.

Design and Operations Report

34. Within sixty (60) days of the date of issuance of this Certificate, the Owner shall submit to the Director for approval a revised Design and Operations Report that includes up-to-date information on all Site infrastructure and operations. The updated Design and Operations Report shall include (but not be limited to) the following:

- (a) an updated site plan showing all waste management infrastructure on-site, including drawings where necessary to describe details of any structures on-site, and the drawings required under Condition 33(b) and 33(c) above;

- (b) detailed information on all waste management operations and all nuisance control measures at the site;
- (c) detailed information on personnel training, site inspections, emergency and spill response, and reporting.

Training Plan

35. A training plan shall be developed and maintained for all employees that operate the Site. Only Trained personnel may operate the Site or carry out any activity required under this Certificate.
36. The Owner shall ensure that Trained personnel are available at all times during the hours of operation of this Site. Trained personnel shall supervise all management of all waste and processed material at the Site.

Site Security

37. The Site shall be operated and maintained in a secure manner, such that unauthorized persons cannot enter the Site.

Site Inspection

38. An inspection of the entire Site and all equipment on the Site shall be conducted each day the Site is in operation to ensure that: the Site is secure; that the operation of the Site is not causing any nuisances; that the operation of the Site is not causing any adverse effects on the environment; and that the Site is being operated in compliance with this Certificate. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site if needed.
39. A record of the inspections, including the following information, shall be kept in the daily log book:
- a. the name and signature of person that conducted the inspection;
 - b. the date and time of the inspection;
 - c. a list of any deficiencies discovered;
 - d. any recommendations for remedial action; and
 - e. the date, time and description of actions taken.

Complaint Response

40. If at any time, the Owner receives a complaint regarding adverse effect (as defined in the EPA) due to operation of the Site, the Owner shall respond to the complaint according to the following procedure:
- (a) The Owner shall record and number each complaint, either electronically or in a separate log book, along with the following information:
 - i. the nature of the complaint,
 - ii. if the complaint is odour or nuisance related, the weather conditions and wind direction at the time of the complaint;
 - iii. the name, address and telephone number of the complainant (if provided); and
 - iv. the time and date of the complaint;
 - (b) The Owner, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint, notify the District Manager of the complaint within 24 hours of receiving the complaint, and forward a formal reply to the complainant; and
 - (c) The Owner shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents. Should subsequent complaints be received following the implementation of corrective action, further corrective actions shall be developed and implemented iteratively until the problem is corrected.

Emergency Response Plan

41. The Owner shall prepare and provide copies of the Emergency Response Plan to the Fire Department within 30 days of

the issuance of this notice. Within 10 days of acceptance of the Emergency Response Plan by the Fire Department, the Owner shall submit a copy of the Emergency Response Plan to the Director for approval.

42. The Emergency Response Plan shall be kept up to date, and a copy shall be retained and accessible to all staff at all times. Changes to the Emergency Response Plan shall be submitted to the Director for approval.

43. The equipment, materials and personnel requirements outlined in the Emergency Response Plan shall be immediately available on the Site at all times. The equipment shall be kept in a good state of repair and in a fully operational condition.

44. All staff that operate the Site shall be fully trained in the use of the contingency and Emergency Response Plan, and in the procedures to be employed in the event of an emergency.

45. The Owner shall immediately take all measures necessary to contain and clean up any spill (as defined in the EPA) which may result from the operation of this Site and immediately implement the emergency response plan if required.

Closure Plan

46. A Closure Plan shall be submitted to the Director for approval, with a copy to the District Manager, no later than six (6) months before the planned closure date of the Site. The Closure Plan shall include, at a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work.

47. The Site shall be closed in accordance with the approved Closure Plan.

48. Within 10 days after closure of the Site, the Owner shall notify the Director, in writing, that the Site is closed and that the approved Closure Plan has been implemented.

Daily Log Book

49. A daily log shall be maintained, either electronically or in written format, and shall include the following information as a minimum:

- a. the date;
- b. quantity and source of waste received;
- c. a running total of the quantity of waste on-site at any time, including the end of the operating day;
- d. quantities and destination of each type of waste shipped from the Site;
- e. a record of daily inspections required by this Certificate;
- f. a record of any spills or process upsets at the site, the nature of the spill or process upset and the action taken for the clean up or correction of the spill, the time and date of the spill or process upset, and for spills, the time that the Ministry and other persons were notified of the spill in fulfilment of the reporting requirements in the EPA .
- g. a record of any waste refusals which shall include; amounts, reasons for refusal and actions taken; and
- h. the signature of the Trained Personnel conducting the inspection and completing the report.

Annual Report

50. On March 31, 2010, and on an annual basis thereafter, the Owner shall prepare a written report for the previous calendar year ("Annual Report"). The Annual Report shall be submitted to the District Manager by March 31 of each year, and shall be kept on-site to be made available to any Provincial Officer upon request. The report shall include, at a minimum, the following information:

- (a) a detailed monthly summary of the type and quantity of all incoming and outgoing wastes and the destination of all outgoing wastes;
- (b) any environmental and operational problems, that could negatively impact the natural environment (as defined in the EPA), encountered during the operation of the Site and during the facility inspections and any mitigative actions taken;
- (c) any changes to the Emergency Response Plan or the Design and Operations Report since the last Annual Report;

(d) any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operations and monitoring programs in this regard.

Schedule "A"

This Schedule forms a part of this Certificate of Approval:

1. Application for a Certificate of Approval for a Waste Disposal Site dated June 30, 2009, including the attached Design and Operations Report prepared by Mr. Paul MacDonald, Panama Environmental Solutions and Services.

The reasons for the imposition of these terms and conditions are as follows:

1. The reason for Condition 1 is to simplify the wording of the subsequent conditions and define the specific meaning of terms as used in this Provisional Certificate of Approval.
2. The reason for Conditions 2, 3, 5, 6, 7, 8, 9, 10, 11, 18 and 19 is to clarify the legal rights and responsibilities of the Owner and Operator.
3. The reason for Condition 4 is to ensure that the Site is operated in accordance with the application and supporting documentation submitted by the Company, and not in a manner which the Director has not been asked to consider.
4. The reasons for Condition 12 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes.
5. The reasons for Condition 13 are to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Certificate of Approval.
6. The reason for Conditions 14, 15 and 16 is to ensure sufficient funds are available to provide for the clean-up of the Site in the event the Owner is unwilling or unable to clean up the Site.
7. The reason for Condition 17 is to ensure that appropriate Ministry staff have ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Certificate of Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA and OWRA.
8. The reason for Conditions 20, 29, 30, 31, 32 and 33 is to ensure that the Site is operated in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people.
9. The reasons for Condition 21 is to specify the hours of operation for the Site.
10. The reasons for Conditions 22, 23, 24, 25, 26 and 27 are to specify the types of waste that may be accepted at the Site, the processes allowed at the Site, the amounts of waste that may be stored and processed at the Site, and the maximum rate at which the Site may receive waste based on the Company's application and supporting documentation.
11. The reasons for Condition 28 are to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Certificate of Approval, and that the emergency number is made available to the public.
12. The reason for Condition 34 is to ensure that an up-to-date Design and Operations Report is maintained on-site at all times.
13. The reason for Conditions 35 and 36 is to ensure that the Site is operated by properly Trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.
14. The reasons for Condition 37 are to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.
15. The reasons for Conditions 38 and 39 are to ensure that routine Site inspections are completed, and that detailed

records of Site inspections are recorded and maintained for inspection and information purposes.

16. The reason for Condition 40 is to ensure that any complaints regarding Site operations at the Site are responded to in a timely manner.

17. The reasons for Conditions 41, 42, 43, 44 and 45 are to ensure that an Emergency Response Plan is developed and maintained at the Site and that staff are properly trained in the operation of the equipment used at the Site and emergency response procedures.

18. The reasons for Condition 46, 47 and 48 are to ensure that the Site is closed in accordance with Ministry standards and to protect the health and safety of the public and the environment.

19. The reasons for Condition 49 are to provide for the proper assessment of effectiveness and efficiency of site design and operation, their effect or relationship to any nuisance or environmental impacts, and the occurrence of any public complaints or concerns. Record keeping is necessary to determine compliance with this Certificate of Approval, the EPA and its regulations.

20. The reasons for Condition 50 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. A report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 0854-524QUQ issued on October 22, 2001

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the waste disposal site is located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Environmental Commissioner
1075 Bay Street, 6th Floor
Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director
Section 39, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

CONTENT COPY OF ORIGINAL

This instrument is subject to Section 38 of the Environmental Bill of Rights, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at www.ene.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted waste disposal site is approved under Section 39 of the Environmental Protection Act.

DATED AT TORONTO this 5th day of November, 2009

Tesfaye Gebrezghi, P.Eng.
Director

AN/
c: District Manager, MOE Toronto - District
Paul MacDonald, Panama Environmental Solutions & Services



Ministry
of the
Environment

Ministère
de
l'Environnement

CERTIFICATE OF APPROVAL
AIR
NUMBER 6855-6AGTPM

City of Toronto
55 John Street Metro Hall, Station 1180
Toronto, Ontario
M5V 3C6

Site Location: 40 Toryork Dr.
Toronto City, Ontario

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

- one (1) pressurized drying chamber serving a silk screening process, equipped with dry arrestor filters, exhausting into the atmosphere at a volumetric flow rate of 4.71 actual cubic metres per second at an approximate temperature of 48 degrees Celsius, through a stack, having an exit diameter of 0.51 metre, extending 1.8 metres above the roof and 7.3 metres above grade;

all in accordance with the application for a Certificate of Approval (Air) dated August 24, 2004 and signed by Wayne Moss, P.Eng., Project Manager, City of Toronto, and all supporting information associated with the application including additional information provided by Steve Arkell, Core Systems Solutions, dated November 17, 2004 and March 16, 2005.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Act" means the *Environmental Protection Act*;
- (2) "Certificate" means this Certificate of Approval issued in accordance with the Act;
- (3) "District Manager" means the District Manager, Toronto District Office, Central Region of the Ministry;
- (4) "Equipment" means the drying chamber described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
- (5) "Manual" means a document or a set of documents that provide written instructions to staff of the Owner;
- (6) "Ministry" means the Ontario Ministry of Environment; and
- (7) "Owner" means City of Toronto, and includes its successors and assignees;

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

GENERAL

1. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Equipment in accordance with the description given in this Certificate, application for approval of the Equipment and the submitted supporting documents and plans and specifications as listed in this Certificate.
2. Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

OPERATING AND MAINTENANCE

3. The Owner shall ensure that the Equipment is properly operated and maintained at all times. The Owner shall:

(1) prepare, not later than three (3) months after the date of this Certificate, and update as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:

- (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
- (b) emergency procedures;
- (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;
- (d) the frequency of inspection and replacement of the filter material in the Equipment;
- (e) procedures for recording and responding to environmental complaints; and
- (f) appropriate measures to minimize odorous emissions from all potential sources.

(2) implement the recommendations of the operating and maintenance Manual.

RECORD RETENTION

4. The Owner shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Certificate. These records as well as the Manual shall be made available to staff of the Ministry upon request. The Owner shall retain:

(1) all records on the maintenance, repair and inspection of the Equipment; and

(2) all records on the environmental complaints, including:

- (a) a description, time and date of each incident;
- (b) operating conditions (e.g. the product name(s) being sprayed, any upset conditions, etc.) at the time of the incident; and
- (c) a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future.

NOTIFICATION OF COMPLAINTS

5. The Owner shall notify the District Manager, in writing, of each environmental complaint and the measures taken to address the cause of the complaint within five (5) business days of the complaint.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition Nos. 1 and 2 are imposed to ensure that the Equipment is built and operated in the manner in which it was described for review and upon which approval was granted. These conditions are also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition No. 3 is included to emphasize that the Equipment must be maintained and operated according to a procedure

that will result in compliance with the Act, the regulations and this Certificate.

3. Condition No. 4 is included to require the Owner to keep records and provide information to staff of the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

4. Condition No. 5 is included to require the Owner to notify staff of the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of Environment and Energy
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at:
Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 21st day of March, 2005

Aziz Ahmed, P.Eng.
Director
Section 9, *Environmental Protection Act*

WL/
c: District Manager, MOE Toronto District Office
Stephen Arkell, Core System Solutions

APPENDIX D
Warning Clauses

Environmental Noise Assessment
Weston Heights
SLR Project No.: 241.30246.00000

SUMMARY OF POTENTIAL MITIGATION MEASURES AND WARNING CLAUSES

Warning Clauses

Transportation Sources (Road and Rail)

MECP Type A Warning Clause - All units

“Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road and rail traffic may on occasions interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment.”

MECP Type C Warning Clause – All units other than North facades of block 2 tower B, and North façade of block 2 podium

“This dwelling unit has been designed with the provision for adding central air conditioning at the occupant’s discretion. Installation of central air conditioning by the occupant in low and medium density developments will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment.”

MECP Type D Warning Clause - North facades of block 2 tower B, and North façade of block 2 podium.

“This dwelling unit has been supplied with a central air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment.”

Canadian Pacific Railways Warning Clause - All units

“Purchasers are advised that Canadian Pacific Railway Company or its assigns or successors in interest has or have a right-of-way within 300 metres from the land the subject thereof. There may be alterations to or expansions of the rail facilities on such right-of-way in the future, including the possibility that the railway or its assigns or successors as aforesaid may expand its operations, which expansion may affect the living environment of the residents in the vicinity, notwithstanding the inclusion of any noise and vibration attenuating measures in the design of the development and individual dwelling(s). CPR will not be responsible for any complaints or claims arising from use of such facilities and/or operations on, over or under the aforesaid right-of-way.”

Industrial Sources

MECP Type E Warning Clause -all units

“Purchasers/tenants are advised that due to the proximity of adjacent industries, noise from these facilities may at times be audible.”

MECP Type F Warning Clause (Only if class 4 designation obtained) – all units

“Purchasers/tenants are advised that sound levels due to the adjacent industries are required to comply with sound level limits that are protective of indoor areas and are based on the assumption that windows and exterior doors are closed. This dwelling unit has been supplied with a ventilation/air conditioning system which will allow windows and exterior doors to remain closed.”

Receptor-Based Physical Mitigation Measures

Ventilation System Design

Forced Air Heating Systems / Future Air Conditioning

The above listed units should be designed with a provision for the installation of central air conditioning in the future, at the occupant’s discretion.

Mandatory Air Conditioning

All residential units should be designed with central air conditioning systems, will allow windows and exterior doors to remain closed.

Noise Barriers

The required noise barrier are outlined in **Section 3.7.7.4**.

Noise walls must be continuous with no gaps or cracks, and a must have a minimum surface density (mass per unit area) of 10 kg/m² (4 lbs per sq.ft.). A number of different products can be used which meet these specifications, including wood, metal, glass or plexiglass structures.

APPENDIX E
Stationary Source Data

Environmental Noise Assessment
Weston Heights
SLR Project No.: 241.30246.00000

Table E.1: Summary of Noise Source Sound Power Levels

Source Description	Maximum Sound Power Levels (1/3 Octave Band Levels)											Total PWL (dBA/dBA)	Notes
	32	63	125	250	500	1000	2000	4000	8000				
	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)	(dB/dB)		
Rooftop HVAC (5-ton)	77	80	81	81	80	78	74	70	64	83			- based on SLR historical data - Assumed to operate continuously during daytime -50% duty cycling applied during nighttime hours.
Rooftop HVAC (10-ton)	80	83	84	84	83	81	77	73	67	86			- based on SLR historical data - Assumed to operate continuously during daytime -50% duty cycling applied during nighttime hours.
Rooftop HVAC (15-ton)	87	90	91	91	90	88	84	80	74	93			- based on SLR historical data - Assumed to operate continuously during daytime -50% duty cycling applied during nighttime hours.
Rooftop HVAC (20-ton)	89	92	93	93	92	90	86	82	76	95			- based on SLR historical data - Assumed to operate continuously during daytime -50% duty cycling applied during nighttime hours.
Generic 3500 cfm MUA - Inlet		78	79	73	75	69	63	56	45	74.9			- Assumed to operate continuously during daytime -50% duty cycling applied during nighttime hours.
Generic Mechanical Intake/Exhaust Plenum		82	81	81	81	76	71	66	58	81.6			- based on SLR historical data
Air Cooled Condenser - 2 fan		93	99	93	89	85	80	74	65	91.3			- Assumed to operate continuously during daytime and nighttime
Air Cooled Condenser - 6 fan		98	104	98	94	90	85	79	70	96.3			- Assumed to operate continuously during daytime and nighttime
Kitchen Exhaust Fan		83	93	88	82	77	75	69	66	85			- Assumed to operate continuously during daytime and nighttime
Generic Exhaust Fan- Small		83	93	88	82	77	75	69	66	85			- Assumed to operate continuously during daytime and nighttime
Generic Exhaust Fan- Medium		99	99	92	88	82	78	72	66	90			- Assumed to operate continuously during daytime and nighttime
Generic Exhaust Fan- Large		104	104	97	93	87	83	77	71	95			- Assumed to operate continuously during daytime and nighttime
Upblast Mushroom Fan - Large		87.5	83.3	80.7	74.2	68.1	64.4	59.5	55	81.4			- based on SLR historical data
25 HP Cooling Tower (single coil)	102	105	105	102	99	95	92	89	81	101.2			- based on SLR historical data
Idling Car, based on 76 dBA		85	80	75	72	70	69	65	55	76			- based on SLR historical data for 2000 to 2016 model year vehicles. - Assumed to operate continuously during all times of the day
Heavy Truck - Passby	98.2	101.4	101.1	96.5	96.3	95.6	91.5	84.1	78	99.5			- based on SLR historical data - Assumed speed of 13km/h, different volumes for each site ranging from 5/h to 60/h
Heavy Truck - idling	98.2	101.4	101.1	96.5	96.3	95.6	91.5	84.1	78	99.5			- based on SLR historical data - Assumed to idle 60 min/hour depending on the site
Generic Dust Collector	95.9	94.2	90.5	89.1	84.6	88.1	87.2	79.5	76.9	92.5			- based on SLR historical data
Continuous Waste Loading	105.1	117.9	109.3	104.2	104.4	104.4	100.9	96.5	89.2	108.5			- based on SLR historical data
Impulsive Waste Loading					123.7					123.7			- based on SLR historical data
Generic Crusher		126	127.2	123.9	120.3	118.8	117.7	113.4	106.9	124.5			- based on SLR historical data
Generic excavator		107	107	107	107	107	107	107	107	114			- based on SLR historical data
Generic Crusher + screening		116.5	118	121.2	119.3	119.2	116.4	110.8	102.5	123.4			- based on SLR historical data
Shunting Locomotive	94.50	95.60	95.80	94.70	95.30	96.60	92.60	84.80	77.20	99.80			- based on SLR historical data
Shear - crushing and cutting scrap					126.20					126.20			- based on SLR historical data
Trailer Loading - impulse (metal castings)					136.40					136.40			- based on SLR historical data
ECS Trammel, End, Rockledge w/ Curtain	95.40	92.50	91.60	91.70	91.60	92.10	92.30	93.20	88.90	99.00			- Assumed to operate continuously during daytime
Weight Scale					115.50					115.50			- based on SLR historical data
CMJ Scrap metal drop					115.7					115.70			- based on SLR historical data
Wood chipper					116.00					116.00			- based on SLR historical data
Forklift	89.1	112	96.1	95.7	96.2	94.5	92.7	91.8	85.4	100.2			- Assumed to operate continuously during daytime and evening
esso car wash	100.8	103.7	102.1	101.3	103.1	97.6	97.2	93.3	87.5	104.5			- based on SLR historical data - Assumed to operate 15 min/ hour during daytime, and 3 min/hour during nighttime -5dBA Penalty for tonality applied
Coin Vaacuum		85.6	81.9	83.5	82	86	87.5	87.4	85.2	93.4			- based on SLR historical data - Assumed to operate 15 min/ hour during daytime, and 3 min/hour during nighttime +5dBA Penalty for tonality applied
Ingot Metals - overall	114.9	117.8	118.6	110	104.8	99	97.7	84.1	76.1	107.7			- measured in surrounding area - continuous operation assumed.
Mega City Car Wash Dryer Fan (exit)	112.3	115.2	113.6	112.8	114.6	109.1	108.7	104.8	99	116			- measured on-site - daytime hours only, per business hours
Mega City Central Vacuum		98.2	94.5	96.1	94.6	98.6	100.1	100	97.8	106			- measured on-site - daytime hours only, per business hours - total

