

OAKVILLE TOC

Land Use Compatibility Assessment

217 and 227 Cross Avenue and 571, 581, 587-595 Argus Road Oakville, Ontario

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1.0 Introduction

1.1 Purpose and Objectives

Dillon Consulting Limited (Dillon) was retained by Distrikt Developments to complete a Land Use Compatibility Assessment (the Assessment) for a proposed residential development (Proposed Development) located at 217 and 227 Cross Avenue and 571, 581, 587-595 Argus Road in Oakville, Ontario. The Assessment has been completed in support of a Transit Oriented Communities (TOC) submission for the Proposed Development.

The purpose of the Assessment is to assess the potential for nuisance impacts resulting from air quality (including odour and dust) emissions from surrounding land uses as well as from the nearby 400-series highway on the Proposed Development. A Noise Feasibility Study has been completed by Howe Gastmeier Chapnik Limited (HGC Engineering) and is provided in a separate report.

The Assessment was conducted in consideration of the following documents:

- Halton Region's Land Use Compatibility Guidelines;
- The Provincial Policy Statement (PPS), 2020;
- The Ontario Environmental Protection Act (EPA);
- The Ministry of Environment, Conservation and Parks' (MECP's) D-Series of Guidelines for land use compatibility between industrial and sensitive land uses;
- The MECP's local air quality regulation, Ontario Regulation 419/05.; and
- The Ontario Ministry of Transportation's (MTO's) Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects (the MTO Guide).



Description of the Site and Surrounding Area

The proposed development is located at 217-227 Cross Avenue and 571-587 Argus Road in Oakville, Ontario. The subject lands are currently occupied by the following land uses:

- Two 1-storey restaurants;
- A 3-storey medical centre; and
- A 1-storey medical centre.

The development is proposed to consist of three residential towers with commercial and office spaces as follows:

- Building A 46 storeys with 1 storey of commercial space, 2 storeys with indoor amenity spaces, and 44 storeys of residential units;
- Building B 52 storeys with 1 storey of commercial space, 2 storeys with indoor amenity spaces, and 50 storeys of residential units; and
- Building C 59 storeys with 1 storey of commercial space, 1 storey of office space, 3 storeys with indoor amenity spaces, and 56 storeys of residential units.

Surrounding the proposed development are the following existing land uses:

- North Hotel and Commercial;
- East Commercial;
- South Oakville GO Station; and
- West Commercial.

The subject site and surrounding area are shown in Figure 1. The site plan is provided in Appendix A.

2.1 Zoning

At the time of this assessment, the subject lands are zoned Midtown Transitional Commercial (MTC) as per the Town of Oakville's Zoning By-Law 2014-014.

Immediately adjacent to the subject lands in all directions are lands also zoned Midtown Transitional Commercial (MTC). Beyond the adjacent lands, the following zoned lands are located with respect to the proposed development:

- Midtown Transitional Employment (MTE) Located adjacent northeast of the proposed development;
- Urban Centre (MU3) Located 200 m southeast of the proposed development;
- Residential High (RH), Future Development (FD), and Natural Area (N) Located 360 m south and southwest of the proposed development;



- Residential Medium (RM4) and Residential Low (RL2) Located 250 m northwest of the proposed development; and
- Commercial (C3) and Utility (U) Located 270 m north of the proposed development.

The zones listed are identified in the zoning map - obtained from the Town of Oakville's online interactive zoning map - provided in **Appendix B**.



3.0 Summary of Relevant Land Use Policies, Regulations, and Guidelines

The following documents and guidelines, described in detail in this section, were considered in the Land Use Compatibility Assessment:

- Halton Region's Land Use Compatibility Guidelines;
- Halton Region's Air Quality Guidelines;
- The Provincial Policy Statement (PPS), 2020;
- The Ontario Environmental Protection Act (EPA);
- The Ministry of Environment, Conservation and Parks' (MECP's) D-Series of Guidelines for land use compatibility between industrial and sensitive land uses;
- The MECP's local air quality regulation, Ontario Regulation 419/05; and
- The MTO's Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects (the MTO Guide).

3.1 Halton Region's Land Use Compatibility Guidelines

The Halton Region's Land Use Compatibility Guidelines provide a framework for the assessment of land use compatibility within the Region. With respect to this study, the application of the Halton Region's Land Use Compatibility Guidelines follows the framework provided in the MECP's D-Series Guidelines (described in **Section 3.4**).

The Halton Region's Land Use Compatibility Guidelines applies to industrial and sensitive land uses that are in proximity to each other, and is used to inform Official Plan and Zoning By-law amendments. The goal of the guidelines is to minimize adverse effects of industrial, transportation, and utility on sensitive uses. Section 3.2 of guidelines provides the following steps for determining land use compatibility between a proposed sensitive land use and existing industrial uses:

- 1. Determine the nature of the proposed development;
- 2. If proposed development is a sensitive land use, identify potential land use compatibility conflicts;
- 3. If the proposed development is within the potential influence area of an existing industry, carry out studies to determine actual area of influence; and
- 4. If the proposed development falls within actual area of influence of existing industry, assess potential approaches to mitigation.

The Land Use Compatibility Guidelines have been applied to assess the potential for and minimize adverse effects between industrial/commercial lands that are in proximity to the residential land uses of the proposed development.



3.2 Halton Region's Air Quality Guidelines

The Halton Region's Air Quality Guidelines require that any sensitive uses within 30 m of an arterial road or 150 m of a Provincial highway require an assessment of transportation-related air quality. As the proposed development is within 150 m of a Provincial highway (the QEW), a transportation air quality assessment has been included in this study.

3.3 **Provincial Policy Statement, 2020**

The latest update to the Provincial Policy Statement (PPS) was issued under Section 3 of the Planning Act and came into effect May 1, 2020. The PPS provides policy direction on matters of provincial interest related to land use planning and development. The update to the PPS supports the government's goals related to increasing housing, supporting jobs, and reducing red tape.

The PPS states under Part V Section 1.2.6:

- "1.2.6.1 Major facilities and sensitive land uses shall be planned and developed to avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects from odour, noise, and other contaminants, minimize risk to public health and safety, and to ensure the long-term operational and economic viability of major facilities in accordance with provincial guidelines, standards, and procedures.
- 1.2.6.2 Where avoidance is not possible in accordance with policy 1.2.6.1, planning authorities shall protect the long-term viability of existing or planned industrial, manufacturing, or other uses that are vulnerable to encroachment by ensuring that the planning and development of proposed adjacent sensitive land uses are only permitted if the following are demonstrated in accordance with provincial guidelines, standards, and procedures:
 - a) there is an identified need for the proposed use;
 - b) alternative locations for the proposed use have been evaluated and there are no reasonable alternative locations;
 - c) adverse effects to the proposed sensitive land use are minimized and mitigated; and
 - d) potential impacts to industrial, manufacturing, or other uses are minimized and mitigated."

Employment Areas are defined under the PPS as "those areas designated in an official plan for clusters of business and economic activities including, but not limited to, manufacturing, warehousing, offices, and associated retail and ancillary facilities."



The PPS states in Section 1.3.2 that in relation to Employment Areas:

"1.3.2.2 At the time of the official plan review or update, planning authorities should assess employment areas identified in local official plans to ensure that this designation is appropriate to the planned function of the employment area.

> *Employment areas planned for industrial and manufacturing uses shall provide for separation or mitigation from sensitive land uses to maintain the long-term operational and economic viability of the planned uses and function of these areas.*

"1.3.2.3 Within employment areas planned for industrial or manufacturing uses, planning authorities shall prohibit residential uses and prohibit or limit other sensitive land uses that are not ancillary to the primary employment uses in order to maintain land use compatibility.

Employment areas planned for industrial, or manufacturing uses should include an appropriate transition to adjacent non-employment areas."

As per the region of Halton's Official Plan Map 6a – Midtown Oakville GO UGC/MTSA, the proposed development is not located within a regional employment area. Regional employment areas are located approximately 600 m north and 850 m southwest of the proposed development.

At the time of this assessment, the Ontario government has released the Provincial Planning Statement, 2024 (2024 PPS) which will come into effect October 20, 2024. The 2024 PPS replaces the 2020 PPS and A Place to Grow: Growth Plan for the Greater Golden Horseshoe, 2019. The released 2024 PPS does not materially affect the land use compatibility assessment process.

3.4 Environmental Protection Act

The Ontario Environmental Protection Act (EPA) provides a framework under which industrial compliance and land use compatibility are assessed. With respect to land use compatibility, the EPA provides direction that:

- 1. Under Section 9 of the EPA, all regulated industrial and commercial facilities must apply for and obtain approval for any activities that may cause or results in contaminants to be discharged to the natural environment, as described in regulations 419/05 and 1/17;
- 2. Under Section 14 of the EPA, a person shall not discharge a contaminant or cause or permit the discharge of a contaminant into the natural environment if the discharge causes or may cause an adverse effect. Adverse effects are defined within the EPA as:

"one or more of,

- a) impairment of the quality of the natural environment for any use that can be made of it,
- b) injury or damage to property or to plant or animal life,
- c) harm or material discomfort to any person,
- d) an adverse effect on the health of any person,



- e) impairment of the safety of any person,
- f) rendering any property or plant or animal life unfit for human use,
- g) loss of enjoyment of normal use of property, and
- *h*) *interference with the normal conduct of business;*"

The EPA's definition of a contaminant includes but is not limited to: air contaminants, odours, noise, and vibration, and has been determined in past decisions to include light. Obtaining approval for air and noise requires that a facility demonstrate, through a technical assessment, compliance with the applicable guidelines and regulations such as Ontario Regulation 419/05 and NPC-300.

The adverse effect clause in the EPA is applicable to the assessment of nuisance complaints in a land use compatibility context. Nuisance contaminants, such as noise, vibration, dust, and odour, may result in complaints which may be determined to fall under the adverse effects clause. When considering land use changes which may introduce new sensitive receptors in an area, it is important to consider a facility's current environmental approval as well as the potential for their operations to result in a nuisance impact.

3.5 **D-Series Guidelines**

The intent of the MECP's D-Series of Guidelines is to minimize or prevent, through the use of buffers and separation of uses, the encroachment of incompatible land uses. Guideline D-6 delegates responsibility to the planning authorities and requires that they be followed where there is potentially encroachment of sensitive land uses to existing industrial lands and vice versa.

With respect to Guideline D-6, sensitive receptors include: residences, senior-citizen homes, schools, day care facilities, hospitals, and churches or similar institutional uses, as well as recreation areas deemed by the planning authority to be sensitive. Certain commercial and institutional uses may be deemed sensitive on a case-by-case basis and based on typical operating hours.

Guideline D-6 provides industrial categorization criteria for the purpose of classifying industrial and commercial facilities based on their output, scale, process, and operations. The industrial categorization criteria is provided in **Table 3-1**.

Note that the examples provided in this table should not be considered a comprehensive list but are to be used to provide examples of each industrial category. Additionally, the examples listed in **Table 3-1** may not apply to all instances of a particular industry type; for example, some electronics manufacturing and repair facilities may meet the definition of a Class II or Class III facility.



Class	Outputs	Scale	Process	Operations / Intensity	Possible Examples
1	Noise: Sound not audible off property. Dust and/or Odour: Infrequent and not intense. Vibration: No ground borne vibration on plant property.	No outside storage. Small scale plant or scale is irrelevant in relation to all other criteria for this Class.	Self-contained plant or building which produces/stores a packaged product. Low probability of fugitive emissions.	Daytime operations only. Infrequent movement of products and/or heavy trucks.	Electronics manufacturing and repair. Furniture repair and refinishing. Beverages bottling. Auto parts supply.
11	Noise: Sound occasionally audible off property. Dust and/or Odour: Frequent and occasionally intense. Vibration: Possible groundborne vibration, but cannot be perceived off property.	Medium level of production allowed.	Open process Periodic outputs of minor annoyance. Low probability of fugitive emissions.	Shift operations permitted. Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours.	Magazine printing. Paint spray booths. Metal command. Electrical production manufacturing. Manufacturing of dairy products.
111	Noise: sound frequently audible off property. Dust and/or Odour: Persistent and/or intense. Vibration: Ground- borne vibration can frequently be perceived off property.	Outside storage of raw and finished products. Large production levels.	Open process. Frequent outputs of major annoyances. High probability of fugitive emissions.	Continuous movement of products and employees. Daily shift operations permitted.	Manufacturing of paint and varnish. Organic chemicals manufacturing. Solvent recovery plants. Metal manufacturing.

Table 3-1: Industrial Categorization Criteria

Guideline D-6 also prescribes Recommended Minimum Separation Distances and Potential Influence Areas based on three industrial classifications (i.e., Class I, Class II, and Class III). The Potential Influence Area is the area within which adverse effects from an industry may be experienced at a sensitive receptor. It also represents the area between an industry and sensitive receptors within which technical studies should be performed to demonstrate the uses are compatible prior to approval. These studies may include air dispersion modelling to determine the actual influence area, which is defined by Guideline D-6 as the overall range within which an adverse effect would be or is experienced. Should the actual influence area intersect with the proposed use, further detailed assessment may be required to assess compatibility and determine mitigative solutions, as required.

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The Recommended Minimum Separation Distance from an industry represents the area within which adverse effects to a sensitive land use are likely to occur. Developing a sensitive land use within an industry's Recommended Minimum Separation Distance requires detailed technical studies (e.g., air dispersion modelling) to demonstrate that the land uses are compatible. The Recommended Minimum Separation Distance was established based on MECP studies and historical complaint data.

The Potential Influence Area and Recommended Minimum Separation Distance for each industry class as defined by the D-Series Guidelines are provided in **Table 3-2**. The described distances vary for Class I, II, and III industries due to the frequency and magnitude of potential adverse effects.

Industrial Categorization	Potential Influence Area (m)	Recommended Minimum Separation Distance (m)
Class I	70	20
Class II	300	70
Class III	1000	300

Table 3-2: Industrial Classification Study Distances

In the assessment of distances between the Proposed Development and surrounding industries, the distance was considered to be the shortest length measured between property boundaries.

3.6 Ontario Regulations 419/05 and 1/17 – Local Air Quality

The MECP's environmental permissions framework includes Environmental Compliance Approvals (ECA) issued under Section 9 of the EPA and following the requirements of Ontario Regulation 419/05 (O.Reg. 419/05), and Environmental Activity and Sector Registry (EASR) approvals issued under Section 9 of the EPA and following the requirements of Ontario Regulation 1/17 (O.Reg. 1/17). The applicability of the two instruments (ECA and EASR) is based on the facility's industrial classification. Both instruments provide the same level of environmental protection; the EASR approach allows less-intensive industries to follow a streamlined review process.

Both approvals mechanisms require the same supporting technical studies and reporting and for the purpose of this report will collectively be referred to as "Environmental Permissions". The Environmental Permissions process provides a framework under which industries are required to assess the potential impact of their air quality (including dust, and odour), noise, and vibration emissions.



The MECP requires any industry applying for Environmental Permissions to perform an assessment of air emissions as described in O.Reg. 419/05 and associated guidance documents. O.Reg. 419/05 outlines the requirements of the technical assessment and provides contaminant-specific air quality standards to be applied. All contaminants are required to be in compliance with these standards at all points off-site, while nuisance contaminants such as odours are regulated at sensitive receptors such as residences, schools, and places of worship. The implications of O.Reg. 419/05 from a land use compatibility perspective are:

- All industries which operate in compliance with an approval should meet the air quality standards for regulated contaminants at all points off-site, including locations which are allowed under current zoning, regardless of existing land use. Industries do not have to demonstrate compliance at elevated receptors where zoning does not allow for their construction. Note that these assessments would not consider ambient air quality (i.e., the ambient concentration of contaminants without the influence of the industry).
- Zoning changes to allow for elevated receptors in an area may impose new regulatory obligations for existing industries and can lead to compliance issues, as such locations would not have been assessed during the regulatory application process. Land use compatibility assessments should consider the potential impact on a facility's existing Environmental Permission.
- Existing industries are not required to meet nuisance impact limits for fugitive dust and odour at lands which are not zoned for sensitive uses. Where zoning changes are proposed, a land use compatibility study (as described in the D-Series Guidelines section) should be performed to determine compatibility.

3.7 The MTO Guide

The MTO's air quality and greenhouse gas guideline is intended to be used in the preparation of a Class Environmental Assessment for provincial highway projects. As this project is concerning the introduction of new residential uses, the MTO Guide does not technically apply to this project. However, the MTO Guide provides a comprehensive framework which can be followed when performing technical assessments of the air quality impacts resulting from roadway operations. As such, Dillon has applied the technical recommendations from the MTO Guide where applicable in the transportation assessment portion of this project.



4.0 Methodology

The following items were reviewed as part of the Assessment:

- The official plan and zoning by-laws for the surrounding area;
- Online satellite and aerial imagery;
- MECP Environmental Permissions for existing industries within 1000 m of the Proposed Development;
- Environment and Climate Change Canada's (ECCC) National Pollutant Release Inventory (NPRI) data for existing industries within 1000 m of the Proposed Development; and
- MECP's D-Series of Guidelines, specifically Guideline D-1 Land Use Compatibility and Guideline D-6 Compatibility between Industrial Facilities.

A site visit was conducted by Dillon personnel on August 1st, 2023, to identify industrial or commercial operations within the Potential Influence Areas that intersect the Proposed Development.

The findings of the review outlined above as well as the site visit were used to classify the existing industrial and commercial lands using the MECP's D-Series framework, as well as to identify nearby vacant lands which are zoned to allow for commercial or industrial uses.

Per Guideline D-6, where sensitive land uses are proposed within the Potential Influence Area or Recommended Minimum Separation Distance of an existing or permitted industrial land use, further assessment was completed to quantify noise, vibration, and air quality impacts and to determine mitigative measures, if required.



5.0 Industry Classification within the Surrounding Area

Industries were classified based on site visit observations, consultation with industry staff, review of existing MECP approvals documents, and through publicly available information.

Within the study area, only Class I existing industries were identified. **Table 5-1** summarizes the industrial and commercial facilities with potential influence areas that intersect with the Proposed Development. From an air quality perspective, no compatibility issues were identified in this assessment. It is noted that there is the potential for cooking odours at the Proposed Development as a result of neighbouring restaurants. It is Dillon's opinions that cooking odours are typical in an urban setting and do not typically represent a land use compatibility issue. **Figure 2** shows the industries identified during the Assessment.



Facility Name and Address	Description of Industry and Operations	D-6 Guideline Industrial Classification	Distance to Proposed Development (m)	Potential for Compatibility Concerns?
Commercial Complex 187 Cross Avenue	 Commercial facilities include restaurants, a medical clinic, and retail store. Operations include infrequent shipment of products. 	Ι	20 ^[1]	The majority of uses are not expected to have air quality emissions. Occasional odours from the restaurants are possible, and are typically managed at a municipal level. It is Dillon's opinion that cooking odours are typically in an urban setting and do not typically represent a land use compatibility issue.
Oakland Ford Lincoln Auto Dealership 570 Trafalgar Road	 Auto dealership with auto repair services. Operations include repair and servicing of automobiles. The Facility confirmed that there is no paint spray booth. 	I	20 ^[1]	As there are no spraying operations occurring at the Facility, there are not expected to be any nuisance emissions related to operations.
Allfix Automotive 570 Argus Road	 Auto repair shop. Operations include repair of automobiles. The Facility confirmed that there is no paint spray booth. 	I	20 ^[1]	As there are no spraying operations occurring at the Facility, there are not expected to be any nuisance emissions related to operations.
Commercial Complex 177 Cross Avenue	 Commercial facilities include a medical clinic and self-operated car wash and vacuuming services. Operations include the use of outdoor car wash and vacuuming equipment during the daytime, evening, and nighttime periods. 	1	65	From an air quality perspective, there are no air emission sources. Compatibility issues are not expected.
Notes: [1] Distance is les [2] Industrial pro	daytime, evening, and nighttime periods. so than the recommended minimum separation distance perty is adjacent to Site			

Table 5-1: Class I Industries

"NA": Environmental Permissions not available / were not identified



5.1 **Potential Adverse Effects**

The Proposed Development is located within the Potential Influence Area of multiple existing Class I facilities. A Noise Feasibility Study has been completed by HGC Engineering and is provided in a separate report. The study assessed stationary noise impacts from the facilities identified in **Table 5-1**.

Based on the operations of the surrounding facilities and observations made during the site visit, dust and odour impacts are not expected from the surrounding existing facilities on the Proposed Development.



6.0 Future Industrial Uses

The lands surrounding the Proposed Development were reviewed to identify vacant lands that have permitted land uses that could potentially be incompatible, with respect to air quality, with the Proposed Development. A Noise Feasibility Study has been completed by HGC Engineering and is provided in a separate report.

The following vacant lands were identified in proximity to the Proposed Development.

6.1 420 South Service Road East – Former General Electric Corp.'s Lamp Plant

The vacant land located at 420 South Service Road is approximately 560 m northeast of the Proposed Development.

Based on the separation distance between the vacant land and the Proposed Development, the Proposed Development would be located within the vacant land's potential influence area if the future industrial use is a Class III facility.

At the time of this assessment, the vacant land is zoned as Midtown Transitional Employment (MTE). The only permitted use for Midtown Transitional Employment that would be considered a Class III facility includes a food production facility. The additional regulations for food production under a Midtown Transitional Employment limit that a building's food production use may only occupy 20% of the net floor area. Based on this limitation, it is expected that the scale of future food production facility. Considered small or medium level and the facility would be classified as a Class I or II facility. Considering this, it is Dillon's opinion that, under the existing zoning by law, no Class III facility could be developed on the site. Accordingly, adverse effects from the vacant land's possible future industrial land uses on the Proposed Development are not expected.

6.2 540, 546, and 548 Trafalgar Road

The lands located at 540, 546, and 548 Trafalgar Road are located approximately 20 m from the Proposed Development and have an area of approximately 0.69 hectares. The lands were previously used as a commercial complex. Dillon understands the former uses were removed between August 2020 and July 2021.

At the time of this assessment, the lands are vacant and zoned as Midtown Transitional Employment (MTE). The distances between the vacant lands and the Proposed Development are less than the potential influence area of a Class I industry and the recommended minimum separation distance of a Class II industry.



Dillon has reviewed the permitted uses of a Midtown Transitional Employment zone and identified land uses that may be considered a Class I or Class II industry and have potential for adverse effects at the Proposed Development. While most of the permitted uses of these lands could be developed without compatibility issues with the Proposed Development, the following permitted land uses may be incompatible with the Proposed Development with a 20 m separation distance:

- Food production;
- Restaurant; and •
- Service commercial establishment.

These land uses could potentially be designed to be compatible with the Proposed Development if the adverse effects are assessed and mitigated prior to development. Dillon recommends that the implementation of any of the uses listed above on the vacant lands should be accompanied by a land use compatibility study demonstrating compatibility with the Proposed Development.

547 Trafalgar Road and 312 South Service Road

The lands located at 547 Trafalgar Road and 312 South Service Road are located approximately 160 m from the Proposed Development and have an area of approximately 0.76 hectares and 1.00 hectares, respectively. The lands were previously used as a commercial complex and auto servicing facility. Dillon understands the former uses were removed between October 2021 and October 2022.

At the time of this assessment, the lands are vacant and zoned as Midtown Transitional Employment (MTE). The distances between the vacant lands and the Proposed Development are less than the potential influence area of a Class II industry.

Dillon has reviewed the permitted uses of a Midtown Transitional Employment zone and identified land uses that may be considered a Class I or Class II industry and have potential future adverse effects on the Proposed Development. While most of the permitted uses of these lands can be developed without compatibility issues with the Proposed Development, the following permitted land uses may be incompatible with the Proposed Development with a 160 m separation distance:

- Food production; and
- Service commercial establishment.

These land uses could potentially be designed to be compatible with the Proposed Development if the adverse effects are assessed and mitigated prior to development. Dillon recommends that the implementation of any of the uses listed above on the vacant lands should be accompanied by a land use compatibility study demonstrating compatibility with the Proposed Development.



7.0 **Transportation Facilities**

The following transportation facilities are located in proximity to the Proposed Development:

- Cross Avenue 10 m southeast of the Proposed Development
- Trafalgar Road 145 m northeast of the Proposed Development
- Highway 403 (Queen Elizabeth Way) (QEW) 130 m northwest of the Proposed Development; and
- Metrolinx and CN Oakville Subdivision rail corridors 180 m southeast of the Proposed Development.

A Noise Feasibility Study, including an assessment of transportation noise impacts, has been completed by HGC Engineering and is provided in a separate report.

The Halton Region Air Quality Guideline prescribes conditions under which an assessment of transportation air quality impacts is required, including when a sensitive land use is proposed within:

- 30 m of a major arterial road or provincial highway or;
- 150 m of a provincial highway.

As the Proposed Development is greater than 30 m from Trafalgar Road which is considered to be a major road per Halton Region's Regional Road Network, an assessment of traffic-related air pollution is not required for this transportation facility. As the separation distance between the Proposed Development and QEW is less than the 150 m buffer between sensitive land uses and a provincial freeway, a transportation air quality study was conducted to assess the impact from traffic-related contaminants from the QEW.

To evaluate the impact of transportation emissions on the Proposed Development, an air quality assessment was conducted following the MTO's *Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects (May 2020).* This section summarizes the assessment methodology, model inputs, and results of the transportation study. Detailed emission calculations and results are presented in **Appendix C**.

The Metrolinx and CN Oakville Subdivision rail corridor are located approximately 180 m southeast of the Proposed Development. The corridors are used for passenger and freight trains. The Oakville GO Station is also located approximately 180 m southeast of the Proposed Development where, under routine operating conditions, trains idle at the station for a short period of time while passengers load and unload. Long-term idling of trains is not expected along this corridor as there are no storage or rail yard facilities identified in the area. Per correspondence from Metrolinx, it is anticipated that GO rail service on this Subdivision will be comprised of diesel and electric trains. Therefore, there is the potential for air contaminant and odour emissions to be generated from diesel trains. While a technical assessment of air contaminant impacts associated with the Metrolinx and CN Oakville Subdivision rail corridor has not been completed, the mitigation measures outlined in **Section 7.3** are provided as general recommendations which may reduce the air quality impacts associated with the rail corridor at the Proposed Development.

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7.1 Assessment Methodology

A transportation emission estimation model was used along with an air dispersion model to assess the impact of air emissions from the QEW on the Proposed Development. The following sections describe the methodologies for transportation emission estimations and dispersion modeling.

7.1.1 Transportation Emission Estimations

Traffic data for the road section between Trafalgar Road Interchange and Dorval Road Interchange were obtained from the MTO for the most recent year with available data (i.e., 2019) and projected to the 2023 assessment year using a growth rate of 2% per annum. The traffic data consist of traffic volume Annual Average Daily Traffic (AADT) for all vehicle types including heavy trucks. The traffic volume AADT and breakdown by vehicle types are presented in **Appendix C**.

The U.S. EPA's Motor Vehicle Emission Simulator (MOVES) Model was used to obtain vehicle tailpipe emission factors. MOVES is a state-of-the-science emission model that estimates vehicle emission factors for transportation-related air contaminants. As per the MTO's guide, the relevant transportationrelated air contaminants include: carbon monoxide (CO), nitrogen oxides (NO_x), particulate matter, sulphur dioxide (SO₂), and VOCs including 1,3-butadiene, acetaldehyde, acrolein, benzene, formaldehyde, and benzo(a)pyrene (B[a]P). The MOVES tailpipe emission factors for particulate matter include the PM_{2.5}, PM₁₀, and TSP size fractions from vehicular exhaust, brake wear, and tire wear. The MOVES model was conducted to generate "rate-per-distance" (i.e.; grams-per-kilometre) emission factors for all applicable vehicle types running at the posted speed limit (100 km/hr) for the QEW. The MOVES emission factors were applied to the projected QEW traffic volumes to estimate emission rates of the relevant air contaminants. The MOVES model input parameters and results are summarized in **Appendix C**.

In addition to the vehicle tailpipe particulates, the re-suspended road dust due to the mechanical disturbance of vehicle tires on the road surface and the wake caused by the passing of the vehicle was assessed based on the projected QEW traffic volume and the U.S. EPA's emission factors for paved roads. The emission calculations for the road dust are also included in **Appendix C**.

7.1.2 Air Dispersion Modelling

The U.S. EPA's air dispersion model, AERMOD (Version 22112 - the latest version approved by the MECP), was used to predict the maximum concentrations of contaminants at the Proposed Development. The dispersion modelling followed the MECP's *Air Dispersion Modeling Guidance for Ontario (ADMGO)*.



A 5-year meteorological dataset (1996-2020) for Toronto suburban surface conditions and Canadian Digital Elevation Model (CDEM) terrain files, both published by the MECP, were used for the assessment. The frequency distribution of hourly surface wind speed and direction at the Toronto station is presented as a wind rose in **Figure 7-1**. The prevailing winds are blowing from the north-north-west direction.



Figure 7-1: Wind Rose at Toronto Station (wind blowing from)

The AERMOD model predicts concentration at receptors which include ground-level and elevated points at the Proposed Development. An AERMOD unity run using 1 g/s emission rate was performed for the maximum concentrations at receptors which were "scaled-up" based on the actual emission rates of contaminants.

7.2 Assessment Results

Table 7-1presents the model results from the unity model run.**Table 7-2** presents the predictedconcentrations of each relevant contaminant at the Proposed Development with comparisons againstthe Ontario Ambient Air Quality Criteria (Ontario AAQC).



Table 7-1: Unity Run Results

Averaging Period	Predicted Concentrations at the Proposed Development (µg/m ³ per 1 g/s emitted)				
1-hr	28.02				
24-hr	14.90				
Annual	4.75				

Notes:

1. The above concentrations for different averaging periods represent the maximum concentrations at model receptors from model unity runs using an emission rate of 1 g/s.

2. The max concentrations from unity runs are used to scale for the max concentrations of various air contaminants.

3. Ground-level and elevated model receptors are placed around the proposed three building towers, at a horizontal and vertical spacing of 10 m, to represent residence receptors.

4. The 1-hour concentrations are assessed using the AERMOD variable emission option by hour of the day. The 24-hr and annual concentrations are assessed based on the daily average emissions.

Table 7-2: Model Results Summary

Pollutants	Averaging Period	Air Quality Criteria (μg/m³)	Emission Rate (g/s)	Maximum Concentration (μg/m³)	Percentage of AAQC (%)
Oxides of Nitrogen (NO) ¹	1-hr	400	5.3E+00	1.5E+02	37%
	24-hr	200	2.8E+00	4.2E+01	21%
Carbon Monoxide (CO)	1-hr	36200	1.3E+01	3.5E+02	< 1%
	8hr ²	15700	1.3E+01	3.5E+02	2%
Sulfur Dioxide (SO ₂)	1-hr	106.4	1.1E-02	3.2E-01	< 1%
	Annual	10.6	6.2E-03	2.9E-02	< 1%
Acrolein	1-hr	4.5	3.6E-03	1.0E-01	2%
	24-hr	0.4	1.9E-03	2.8E-02	7%
Acetaldebyde	1/2hr ³	500	2.1E-02	5.8E-01	< 1%
neetalaeliyae	24-hr	500	1.1E-02	1.7E-01	< 1%
Benzene	24-hr	10	4.0E-03	5.9E-02	< 1%
Denzene	Annual	0.45	4.0E-03	1.9E-02	4%
Formaldehyde	24-hr	65	2.3E-02	3.4E-01	< 1%



Pollutants	Averaging Period	Air Quality Criteria (µg/m³)	Emission Rate (g/s)	Maximum Concentration (μg/m³)	Percentage of AAQC (%)
1,3-Butadiene	24-hr	10	1.0E-01	1.5E+00	15%
	Annual	2	1.0E-01	4.9E-01	25%
Total PM2.5 (Exhaust + Brake wear +	24-hr	27	2.0E-01	3.0E+00	11%
Tire wear + Road dust)	Annual	9	1.9E-01	9.2E-01	10%
Total PM10 (Exhaust + Brake wear + Tire wear + Road dust)	24-hr	50	6.1E-01	9.1E+00	18%
Total B[a]P	24-hr	0.00005	5.5E-06	8.3E-05	165%
(Particulate and Gas)	Annual	0.00001	5.5E-06	2.6E-05	264%
Total TSP	24-hr	120	2.3E+00	3.5E+01	29%
(Exnaust + Brake wear + Tire wear + Road dust)	Annual	60	2.2E+00	1.0E+01	17%

Notes:

1. Per Ontario Ambient Air Quality Criteria, estimates of total NO_x are compared to the criteria for NO₂.

2. The maximum 1-hour concentration of CO from unit model runs was conservatively used for determining the maximum 8-hr average concentration of CO.

3. The 1/2hr averaging concentration of Acetaldehyde was assumed equal to the 1hr concentration as emission sources operate continuously within an hour.

The results of the modelling assessment indicate the maximum concentrations of all air contaminants, resulting from the QEW transportation, were predicted to be below the Ontario AAQC at all residential receptors of the Proposed Development, with the exception of B[a]P. The maximum 24-hr B[a]P concentration is predicted at 165% of the corresponding criteria and the annual B[a]P concentration is predicted at 264% of the corresponding criteria.

The exceedance of B[a]P is a wide-spread issue in Southern Ontario due to high vehicle traffic, particularly around provincial highways. The ambient concentrations of B[a]P measured at some monitor stations in Ontario, operated under the National Air Pollution Surveillance (NAPS) Program, exceeds the AAQC. For instance, the 2021 annual average of B[a]P measured at the Highway 401 Station (125 Resources Road, Etobicoke; NAPS ID 60438) was 4.3 times higher than the relevant AAQC, which is likely attributed to the high vehicle traffic on Highway 401. While this does not diminish the fact that exceedances of the relevant criteria are predicted for B[a]P at the Proposed Development, this is not unique to the development location.

Dillon recommends that incorporating mitigation into the design of the Proposed Development may help to lessen the impact of elevated B[a]P concentrations and provide better indoor air quality more generally. The following section describes conceptual mitigation approaches which may be applicable to the Proposed Development.

Oakville TOC



7.3 Mitigation Measures

The section summarizes the mitigation measures that can be implemented at the Proposed Development to improve indoor air quality.

- Use of an activated carbon filtration system on the building air intake(s) to remove VOCs and other gaseous pollutants from the intake air. Such a system should be paired with a pre-filter to reduce particulate matter at the building intakes.
- Maintaining the building under a slight positive pressure under normal weather conditions can help to limit the ingress of contaminants when windows are closed.
- Locating air intakes on locations furthest from the QEW may reduce indoor concentrations of trafficrelated air contaminants.



8.0 Conclusions

Dillon Consulting Limited (Dillon) was retained by Distrikt Developments to complete a Land Use Compatibility Assessment (the Assessment) for a proposed residential development (Proposed Development) located at 217 and 227 Cross Avenue and 571, 581, 587-595 Argus Road in Oakville, Ontario. The Assessment has been completed in support of a Transit Oriented Communities (TOC) submission for the Proposed Development.

The land use compatibility assessment found that the Proposed Development is compatible with the existing established uses in the area. There are vacant lands in proximity to the Proposed Development which are zoned to allow some uses which may be incompatible with the Proposed Development. Dillon recommends that a land use compatibility study be performed should any of the identified potentially incompatible uses be proposed for the vacant lands.

The transportation air quality assessment identified that one contaminant (benzo(a)pyrene) is predicted to exceed the relevant air quality criteria, which is common in Southern Ontario due to traffic-related pollutants. Dillon has recommended building mitigation approaches which could be used to improve indoor air quality at the Proposed Development.

No additional land use compatibility concerns from an air quality perspective were identified.

Sincerely,

DILLON CONSULTING LIMITED



Stephanie Seebach, P.Eng. Associate



Figures

Oakville TOC *Land Use Compatibility Assessment* October 2024 – Dillon File # 23-7122







Appendix A

Site Plans



Oakville TOC *Land Use Compatibility Assessment* October 2024 – Dillon File # 23-7122

BDP. Quadrangle

Quadrangle Architects Limited The Well, 8 Spadina Avenue, Suite 2100, Toronto, ON M5V 0S8 t 416 598 1240 www.bdpquadrangle.com

217-227 Cross Avenue and 571-587 Argus Road

for Distrikt Developments

Project No. 19072 Date 20 September 2024 Issued for TOC Submission

ARCHITECTURAL DRAWINGS

A000.S Cover Page

A101.S Site Plan and Statistics
A102.S Pedestrian & Vehicular Circulation Plan and Phasing Plan
A151.S P7 and P3-P6 Underground Plans
A152.S P2 and P1 Underground Plan
A153.S P1 Mezzanine Underground Plan
A201.S Ground and Second Floor Plans
A202.S Third to Fourth and Fifth Floor Plans
A203.S Sixth and Seventh Floor Plans
A204.S Eighth Floor and Typical Tower Plans
A205.S Mechanical Penthouse and Roof Plans
A401.S Building A and B - East and North Elevations
A403.S Building C - East and North Elevations
A404.S Building C - West and South Elevations
A451.S Building A and B Sections

A452.S Building B and C Sections

PLANNING CONSULTANT

Bousfields Inc. 3 Church Street, Suite 200 Toronto, ON M5E 1M2 T (416) 947-9744 CIVIL CONSULTANT

Trafalgar Engineering Ltd. 1-481 Morden Rd Oakville, ON L6K 3W6 T (905) 338-3366 URBAN DESIGN & LANDSCAPE ARCHITECT

Janet Rosenberg & Studio Inc. 148 Kenwood Ave York, ON M6C 2S3 T (416) 656-6665 TRAFFIC CONSULTANT 1 BA Consulting Group Ltd 45 St Clair Ave W Toronto, ON M4V 1K9 T (416) 961-7110 TRAFFIC CONSULTANT 2 Paradigm Transportation Solutions Ltd 150 Pinebush Rd #5A Cambridge, ON N1R 8J8 T (519) 896-3163 STRUCTURAL CONSULTANT Jablonsky Ast & Partners 3 Concorde Gate, Unit 400 Toronto, ON M3C 3N7 T (416) 447-7405



MECHANICAL & ELECTRICAL CONSULTANT

Smith + Andersen 1100-100 Sheppard Ave. East Toronto, ON M2N 6N5 T (416) 487-8151

INTERIOR DESIGN CONSULTANT

Figure 3 200 University Avenue, Suite 200 Toronto, ON M5H 3C6 T (416) 363-6993



	217-227 Cross Ave and 571-587 Argus Rd Distrikt Developments												
			sm							sf			
		Gross Lot Area:		12598					135604				
	Area of Rc	ad Conveyances:		2790				30033					
		ng conveyances):			9808					105571			
	POPS Are	ea (not conveyed):			2074			6		21101			
					F	Proposed Residentia							
				Oraca El			Non Doo				Residential Net	8	
	Floor	Floor Area/Typ.	No. Tvp. Floors	Gross Fi	Jor Area	Residential GFA	Non-Res	GFA (SIII)	Indoor Amenity	Outdoor	Saleable Area -	No. of Units	
		Floor (sm)		sm	sf	(sm)	Retail (sm)	Office (sm)	GFA (sm)	Amenity (sm)	RNSA (sm)		
7/2411	Tower A MPF	1 0	1	0	0	0	0	0	0	0	0	0	
G A	Level 9-46	850	38	32300	347677	26662	0	0	0	0	26662	455	
NIO TOR	Level {	8 850	1	850	9149	702	0	0	0	0	702	12	
NILI UILI	Podium A Level 7	697	1	697	7504	267	0	0	305	486	267	5	
8	Level 5-6	6 1405	2	2809	30238	2186	0	0	0	0	2186	32	
	Level 3-4	1442	2	2883	31037	2263	0	0	0	0	2263	32	
	Level 2	1608	1	1608	17313	0	504	0	800	303	0	0	
	Building A Total			42344	455790	32079	504 504	0	1105	788	32079	536	
				12011	400100	GEOTO	001	. Maria	1100	100	02010	100%	
	<u> </u>		•		•								
		T	1		F	Proposed Residentia			1				
				Gross Fl	oor Area**	Besidential GEA	Non-Res	GFA (sm)		Outdoor	Residential Net		
	Floor	Floor (sm)	No. Typ. Floors		1	(sm)		. ,	GFA (sm)	Amenity (sm)	Saleable Area -	No. of Units	
				sm	sf	(only	Retail (sm)	Office (sm)	Gill / ((offi)	y unionity (only	RNSA (sm)		
	Tower B MPH	1 0	1	0	0	0	0	0	0	0	0	0	
NG RE)	Level 9-52	850	44	37400	402574	31117	0	0	0	0	31117	569	
STC	Level &	8 850	1	850	9149	707	0	0	0	0	707	13	
BUI 52	Level 5-f	1136	2	2273	24461	1946	0	0	0	0	1946	32	
	Level 3-4	1239	2	2479	26682	2152	0	0	0	0	2152	32	
	Level 2	1297	1	1297	13964	0	0	0	894	191	0	0	
	Ground	1137	1	1137	12238	0	215	0	0	107	0	0	
	Building B Total			46155	496814	36497	215	0	894	298	36497	659	
	_											100%	
	Proposed Residential												
			l					054 ()			Residential Not		
	Floor Floor Area/Typ.		Typ. No. Typ. Floors	Gross Fl	oor Area**	Residential GFA	Non-Res	GFA (sm)	Indoor Amenity	Outdoor	Saleable Area -	No. of Units	
		Floor (sm)		sm	sf	(sm)	Retail (sm)	Office (sm)	GFA (sm)	(sm) Amenity (sm)	RNSA (sm)		
	Tower C MPF	1 0	1	0	0	0	0	0	0	0	0	0	
0	Level 33-59	850	27	22950	247034	18936	0	0	0	0	18936	351	
NG (Level 32	850	1	850	9149	701	0	0	0	0	701	10	
DIN	Level 9-31	850	23	19550	210436	16130	0	0	0	0	16130	299	
301L		<u>972</u>	1	972	10457	514	0	<u>^</u>	200 1	255	514	10	
	Podium C Level 7	1164	e ()	1164	10504	0	0	0	233	051		0	
		2058	1	8231	12524	0	0	0	852	951	0	0	
	Level 2	2058 2 2694	4	8231 2694	12524 88598 29002	0 6986 0	0 0 0 0	0 0 0 2125	852 0 0	951 0 0	0 6986 0	0 112 0	
	Level 2 Mezzanine	2058 2 2694 2 0	4 1 0	8231 2694 0	12524 88598 29002 0	0 6986 0 0	0 0 0 0 0	0 0 2125 0	852 0 0 0	951 0 0 0	0 6986 0 0	0 112 0 0	
	Level 2 Mezzanine Ground	2058 2694 200 2694 0 2621	4 1 0 1	8231 2694 0 2621	12524 88598 29002 0 28209	0 6986 0 0 0	0 0 0 0 886	0 0 2125 0 0	852 0 0 0 111	951 0 0 0 32	0 6986 0 0 0	0 112 0 0 0	
	Level 2 Mezzanine Ground	2058 2694 0 2621	4 1 0 1	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410	0 6986 0 0 0 4 3268	0 0 0 0 886 886	0 0 2125 0 0 2125	852 0 0 0 111 1262	951 0 0 0 32 1239	0 6986 0 0 0 43268	0 112 0 0 0 782	
	Level 2 Mezzanine Ground Building C Total	2058 2694 0 2621	4 1 0 1	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410	0 6986 0 0 0 43268	0 0 0 0 886 886	0 0 2125 0 0 2125	852 0 0 0 111 1262	951 0 0 0 32 1239	0 6986 0 0 0 43268	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total	2058 2694 0 2621	4 1 0 1	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410	0 6986 0 0 0 43268	0 0 0 0 886 886	0 0 2125 0 0 2125	852 0 0 0 111 1262	951 0 0 32 1239	0 6986 0 0 0 43268	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor A	2058 2694 0 2621	4 1 0 1	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530	0 6986 0 0 0 4 3268	0 0 0 0 886 886	0 0 2125 0 0 2 125	852 0 0 0 111 1262	951 0 0 32 1239 ± 1,588,014	0 6986 0 0 0 43268 sf	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor A Total Resid	2058 2694 0 2621 Area, Gross**	4 1 0 1	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844	0 6986 0 0 0 4 3268 0 sm	0 0 0 0 886 886	0 0 2125 0 0 2 125	852 0 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890	0 6986 0 0 0 43268 sf	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Grounc Building C Total Total Floor A Total Resid FSI*:	2058 2694 0 2621	4 1 0 1 	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844	0 6986 0 0 43268 0 sm	0 0 0 886 886	0 0 2125 0 0 2 125	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890	0 6986 0 0 0 43268 sf .04	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Grounc Building C Total Total Floor A Total Resid FSI*: Total No	2 2058 2 2694 9 0 2 2621 Area, Gross** dental GFA:	4 1 0 1 	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1*	0 6986 0 0 43268 9 sm	0 0 0 886 886	0 0 2125 0 0 2125 	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890	0 6986 0 0 0 43268 sf .04	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Grounc Building C Total Total Floor A Total Resid FSI*: Total No	2 2058 2 2694 9 0 2 2621 Area, Gross** dental GFA:	4 1 0 1 Gross:	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1	0 6986 0 0 43268 0 sm	0 0 0 886 886	0 0 2125 0 0 2125 	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890	0 6986 0 0 43268 sf 5.04	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor / Total Resid FSI*: Total No	2 2058 2 2694 9 0 2 2621 Area, Gross** dental GFA:	4 1 0 1 Gross:	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1	0 6986 0 0 43268 0 sm 4.71	0 0 0 886 886 886	0 0 2125 0 0 2125 2125 Net: 1977	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 43268 sf 5 5	0 112 0 0 0 782 100%	
	Level 2 Mezzanine Grounc Building C Total Total Floor A Total Resid FSI*: Total No Par Min. Rate	Area, Gross** dental GFA:	4 1 0 1 Gross:	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844	0 6986 0 0 43268 0 sm 4 sm 1.71 Bicycle F Min. Rate	0 0 0 886 886 886	0 0 2125 0 0 2125 	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 43268 sf 5.04 Residential Amenity Provided	0 112 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor A Total Resid FSI*: Total No Par Min. Rate Resident 0	2058 2694 0 2621 Area, Gross** dental GFA: 0. of Units rking Min. No. 0	4 1 0 1 	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1*	0 6986 0 0 43268 9 sm 4.71 5 sm 1.71 6 <u>Bicycle F</u> Min. Rate 0.75	0 0 0 886 886 886 	0 0 2125 0 0 2125 	852 0 0 111 1262	200 951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 43268 sf 5.04 Residential Amenity Provided 3261	0 112 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor / Total Resid FSI*: Total No Par Min. Rate Resident 0 Visitor 0	2058 2694 0 2621 Area, Gross** dental GFA:	4 1 0 1 Gross: Provided 974 292	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1*	0 6986 0 0 43268 5 sm 5 sm 5 sm 5 sm 5 sm 5 sm 5 sm 5 sm	0 0 0 886 886 886 886 886 886 886 886 88	0 0 2125 0 0 2125 2125 Net: 1977	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 43268 sf 5 5 5 7 8 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 112 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor / Total Resid FSI*: Total No Par Min. Rate Resident 0 Visitor 0 Retail 0	2 2058 2 2694 0 2621 Area, Gross** dental GFA: b. of Units rking Min. No. 0 0 0	4 1 0 1 Gross: Provided 974 292 20	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1*	0 6986 0 0 43268 0 sm 4 sm 1.71 Bicycle F Min. Rate 0.75 0.25 1 1	0 0 0 886 886 886 886 886 886 886 886 88	0 0 2125 0 0 2125 2125 Net: 1977	852 0 0 111 1262	200 951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 0 43268 sf 5.04 Residential Amenity Provided 3261 2324 5586	0 112 0 0 782 100%	
	Level 2 Mezzanine Ground Building C Total Total Floor A Total Resid FSI*: Total No Par Min. Rate Resident 0 Visitor 0 Retail 0 Office 0	2 2058 2 2694 0 2621 Area, Gross** dental GFA: 0. of Units rking Min. No. 0 0 0 0	4 1 0 1 1 Gross: Provided 974 292 20 29	8231 2694 0 2621 59031	12524 88598 29002 0 28209 635410 147,530 111,844 1*	0 6986 0 0 0 43268 9 sm 4 sm 4.71 5 m 1.71	0 0 0 886 886 886 886 886 886 886 886 88	0 0 2125 0 0 2125 2125 Net: 1977	852 0 0 111 1262	951 0 0 32 1239 ± 1,588,014 ± 1,203,890 15	0 6986 0 0 43268 sf 5 5 6.04 Residential Amenity Provided 3261 2324 5586	0 112 0 0 782 100%	

	10 -0 17		
Visitor	0	0	292
Retail	0	0	20
Office	0	0	29
TOTAL		0	1315
P	1 Mezzanine		36
	P1		130
	P2		187
	P3		192
	P4		192
	P5		192
	P6		192
	P7		194
	TOTAL		1315

Approx. Unit Mix										
Studios	1B	2B	3B							
102	1,213	550	112							
5%	61%	28%	6%							

P1

STATISTICS



2 KEY PLAN

Bicycle Pa	arking	
Vin. Rate	Min. No.	Provided
0.75	1483	1488
0.25	494	497
1	2	2
1	2	3
	1981	1990
/lezzanine		0
Mezzanine		348
P1		762
P2		635
P3		245
P4		0
P5		0
P6		0
P7		0
TOTAL		1990

Definitions of Gross Floor Area, Net Floor Area and FSI are taken from Oakville By Law 2014-014, 2015-018 and 2023-065 * FSI - Floor Space Index By-Law 2014-014: means the net floor area of all buildings on a lot divided by the lot area. Amended by 2023-065 to read: means the gross floor area of all buildings on a lot divided by the lot area. ** Gross Floor Area Definition By-Law 2023-065: means the total area of all of the floors in a building measured from the exterior faces of the exterior walls, but shall not include an attic, basement or mechanical penthouse.































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288.70 B-ROOF + -															
284.70 B-ELEVATOR MR	––––––––––––––––––––––––––––––––––––––		L											PROPEF	
														I	
														I	
269.50 B-FLOOR 52 PH								' 					-	1	<u>A-ROOF / 272.85</u>
266.45 B-FLOOR 50													-	-	A-ELEVATOR MR 268.85
263.40 B-FLOOR 49															A MOU 2001 25
260.35 B-FLOOR 48								— 					-	1	4A-MPH/ 201.39
257.00 B-FLOOR 47														+ - 	A ELOOP 45 L PH (257.15)
250.90 B-FLOOR 45								 					-	I	0500A-FLOOR 44 250.60
247.85 B-FLOOR 44													-		A-FLOOR 43 247.55
244.80 B-FLOOR 43								 					- <u> </u>	I -	GOC
238.70 B-FLOOR 41													-		A-FLOOR 41 241.45
235.65 B-FLOOR 40													- -	T	09555 A-FLOOR 39 235.05
232.30 B-FLOOR 39								 —					 -		A-FLOOR 38 232.00
229.25 B-FLOOR 38													-	+	A-FLOO <u>R 37 228.95</u>
223.15 B-FLOOR 36													 -	↓ -	A-FLOOR 36 225.90
220.10 B-FLOOR 35														Ⅰ ┨-┼	0 G G G G G G G G G G G G G
217.05 B-FLOOR 34													-	<u> </u>	A-FLOOR 33 216.75
214.00 B-FLOOR 33								 					-	+	A-FLOOR 32 213.70
207.60 B-FLOOR 31														-	A-FLOOR 30 207.30
204.55 B-FLOOR 30								 					- <mark> </mark>	1	0500 A-FLOOR 29 204.25
201.50 B-FLOOR 29													-	<u> </u>	GOC
<u>198.45 B-FLOOR 28</u>								 					- L		A-FLOOR 27 198.15
192.35 B-FLOOR 26													-		A-FLOOR 25 192.05
188.35 B-FLOOR 25													-	┨-┼	A-FLOO <u>R 24 189.00</u>
185.30 B-FLOOR 24			╡╟╞╤╞╪					 					- <u> </u>	1	A-FLOOR 23 185.65
181.95 B-FLOOR 23															A-FLOOR 22 / 182.60
175.85 B-FLOOR 21								 —					 -	┨-┝	0500 A-FLOOR 20
172.80 B-FLOOR 20								 					-	+	60 A-FLOOR 19 173.45
169.75 B-FLOOR 19	- I - ⊑≓												-		04
<u> 166.70 B-FLOOR 18</u> 163.65 B-FLOOR 17								 					- <u> </u>	1	A-FLOOR 17 166.40
160.60 B-FLOOR 16														Ī	OGEEE
157.25 B-FLOOR 15								 						▶	05000 A-FLOOR 14 156.95
154.20 B-FLOOR 14								 					-	-	00 A-FLOOR 13 153.90
<u>148.10</u> B-FLOOR 12														╡- <u>-</u>	A-FLOOR 12 / 150.85
145.05 B-FLOOR 11								 							OGOEA-FLOOR 10 144.75
														▶ ▶ •	GOE A-FLOOR 9 141.70
<u> 138.95 B-FLOOR 9</u> 135.90 B-FLOOR 8													-	▶	A-FLOOR 8 138.65
132.25 B-FLOOR 7													- t	▶	A-FLOOR 7 132.25
128.45 AB-FLOOR 6017														≫ → - ++ +	AB-FLOOR 6 128.45
125.40 AB-FLOOR 5													 · +	≫ +	0500 AB-FLOOR 5 125.40
122.35 AB-FLOOR 4													· +		AB-FLOOR 4 122.35
00000000000000000000000000000000000000													·		Ар- <u>т</u> LUUK 3 / 119.30 \
113.50 AB-FLOOR 2										-				- - + 	
<u>∕111.00</u> AB-FLOOR MZ														J - + +	
9															A-GROUND FLOOR 104.60
B- <u>GROUND</u> FLOOR														-'	ESTABLISHED GRADE 102.59
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~										<u>      \                               </u>	<u> </u>		× «, «> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "> «, "	•	

# 2 BUILDING AB - EAST ELEVATION A401.S SCALE: 1 : 300

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				B-ROOF 288
				B-ELEVATOR MR 284
				B-MPH 277
272.85 A-ROOF				B-FLOOR 52 PH 273
268.85 A-ELEVATOR MR				B-FLOOR 51 LPH 269
				B-FLOOR 50 266
				B-FLOOR 48 260
				B-FLOOR 47 257
				B-FLOOR 45 250
247.55 A-FLOOR 43				B-FLOOR 44 247
241.45 A-FLOOR 41				B-FLOOR 42 (241
				B-FLOOR 41 238
235.05 A-FLOOR 39				+ B-FLOOR 39 232
228.95 A-FLOOR 37				
225.90 A-FLOOR 36				B-FLOOR 37 226
				B-FLOOR 35 220
216.75 A-FLOOR 33 213.70 A-FLOOR 32				B-FLOOR 33 (217)
210.35 A-FLOOR 31				B-FLOOR 32 210
				B-FLOOR 31 207
				B-FLOOR 29 201
				B-FLOOR 28 198
				B-FLOOR 26 192
				B-FLOOR 25 188
				B-FLOOR 24 185
<u>179.55</u> A-FLOOR 21				B-FLOOR 22 178
176.50 A-FLOOR 20				B-FLOOR 21 175
				B-FLOOR 19 169
				B-FLOOR 18 166
				= - + LOOR 17/163
				B-FLOOR 15 157
153.90 A-FLOOR 13				B-FLOOR 13 151
144.75 A-FLOOR 10 000000000000000000000000000000000				B-FLOOR 11 145
				B-FLOOR 9 138
$125.40 AB-FLOOR 5 \qquad $				AB-FLOOR 5 125
122.35 AB-FLOOR 4				AB-FLOOR 4 122
				23660
113.50       AB-FLOOR 2         111.00       AB-FLOOR MZ				AB-FLOOR 2 113
				10250
				B-GROUND FLOOR 103
99.55 P1 MZ				ESTABLISHED GRADE 102 P1 MZ 99
	1 1 1 1		1 I I	
1 BUILDING AB - WEST ELEVATION SCALE: 1 : 300				





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1 BUILDING C - EAST ELEVATION SCALE: 1 : 300

) (26) 6500	<b>25</b> 6500 68	24 ( 800	23 (22)	21 35500	20
1   	   		1       	   	
		T	 ++	 <u>+</u>	C-MPH ROOF 311.87
		<b> </b>	<u> </u>		C-ELEVATOR MR 307.87
					C-MPH 300.37
			+ + 		C-FLOOR 59 PH 296.17
			$\left  \begin{array}{c} \\ \hline \\ \hline \end{array} \right  = \left  \begin{array}{c} \\ \hline \\ \hline \end{array} \right $	 	C-FLOOR 58 LPH 292.67
			$\left  \begin{array}{c} - \end{array} \right  - \left  \begin{array}{c} - \end{array} \right  - \left  \begin{array}{c} - \end{array} \right  - \left  \begin{array}{c} - \end{array} \right $		C-FLOOR 57 289.62
			 		C-FLOOR 55 283.22
			+ + 		$\begin{array}{c} - & -FLOOR 54 / 200.17 \\ \hline \\ - & C-FLOOR 53 / 277.12 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \end{array}$
			$\downarrow$ - — $\downarrow$ —		C-FLOOR 52 274.07
			<u> </u>		C-FLOOR 50 267.97
			$\downarrow$ + $\downarrow$ +		C-FLOOR 49 264.92
			 + + 	 + 	C-FLOOR 47 258.52
			$\begin{array}{c} + & - & - & + & - \\ + & - & - & + & - \end{array}$		C-FLOOR 46 / 255.47
			++		C-FLOOR 44 249.37
			   	- <u> </u>	C-FLOOR 42 243.27
			↓↓ ↓		C-FLOOR 41 240.22 C-FLOOR 40 236.87
			 		C-FLOOR 39 233.82
					C-FLOOR 37 227.72
			<u> </u>		C-FLOOR 35 221.67
			┼╶──┤── ┼╶──┽──		C-FLOOR 34 218.57
			<u> </u>		C-FLOOR 33 214.57
			<u> </u> 		C-FLOOR 31 208.17
			 	+ 	C-FLOOR 30 205.12
			$\uparrow$ $\uparrow$ $\uparrow$ $\uparrow$ $\uparrow$ $\uparrow$ $\uparrow$		C-FLOOR 28 199.02
			$\left  \begin{array}{c} - & - \end{array} \right  - \\ - & - & - \end{array} \right $	- +	C-FLOOR 27 195.97
			 <del> </del> <del> </del>	 <del> </del>	C-FLOOR 25 189.87
			<u> </u> <u> </u> 	l	C-FLOOR 24 186.52 C-FLOOR 23 183.47
			↓ ↓ I I I	- <u> </u> - <u>-</u> -	C-FLOOR 22 180.42
			$\left  \right  $		C-FLOOR 21 / 1/1.34 C-FLOOR 20 174.32
					C-FLOOR 19 171.27
			 +	 +	C-FLOOR 17 165.17
			+ + -		C-FLOOR 16 161.82
					C-FLOOR 14 155.72
			<u></u>	<u> </u>	C-FLOOR 13 / 162.67
			<u> </u>   !!		C-FLOOR 11 146.57
					C-FLOOR 9 140.47
			<u> </u>		C-FLOOR 8 136.02
					-FLOOR 7 130.22
					C-FLOOR 6 126.42
					C-FLOOR 4 120.32
					C-FLOOR 3 117.27
					C-FLOOR 2 47
					C-FLOOR MZ 108.10 ESTABLISHED GRADE 102.59
					101.970 C-GROUND FLOOR 100.75 P1 47 99 55





1 BUILDING C - SOUTH ELEVATION SCALE: 1 : 300

Кс		
PROPERT		
		C-ELEVATOR MR / 307.8
	11500	
	×	С-МРН / 300.3
- <b>   </b>	0 \$ 4200	<u>C-FLOOR 59 PH 296.1</u>
- +- <b>L</b>	050 L 350	C-FLOOR 58 LPH 292.6
- <del>                                    </del>	3350 1 3	C-FLOOR 56 289.6
	0 1 3050 L	C-FLOOR 55 283.2
-	050 L 305(	C-FLOOR 54 280.1
-+' -	1 3050 L 3	C-FLOOR 53 / 277.1
- <mark> </mark>   <b> </b>	50 L 3050	C-FLOOR 51 271.0
	3050 L 305	C-FLOOR 50 267.9
	3350	C-FLOOR 49 / 264.9
 - +	0 \$ 3050	C-FLOOR 47 258.5
	3050 L 305	C-FLOOR 46 255.4
- +-   -  -	L 3050 L 3	C-FLOOR 45 / 252.4
	0 \ 3050	C-FLOOR 43 246.3
- <b>   </b>	1 3050 1 3050	C-FLOOR 42 243.2
- <u> </u>	3350 \$ 3	C-FLOOR 41 / 240.2
	1 3050	C-FLOOR 39 233.8
- +	050 \$ 3050	C-FLOOR 38 230.7
- <b>   </b>	, 3050 L 30	C-FLOOR 36 2227.7
	0 1 3050	C-FLOOR 35 221.6
_ <b>↓ Ⅰ</b> _ ↓ <b>Ⅰ</b>	00 \$ 3050	C-FLOOR 34 218.5
	350 L 40	C-FLOOR 33 214.5
	3050 1 3	C-FLOOR 32 211.2 C-FLOOR 31 208.1
│ ╹ - ┴─┠ ── -	0 \$ 3050	C-FLOOR 30 205.1
	3050 L 305	C-FLOOR 29 202.0
-+	1 3050 L 3	C-FLOOR 28 / 199.0
	50 L 3050	C-FLOOR 26 192.9
-+	3350 L 305	C-FLOOR 25 189.8
- <mark>'  </mark>	3050	C-FLOOR 24 / 186.5
	0 \$ 3050	C-FLOOR 22 180.4
-+	3050 L 305	C-FLOOR 21 / 177.3
- <del>  </del>	L 3050 L 3	C-FLOOR 20 / 174.3
- <b>   </b> - <b>  _</b>	0 \$ 3050	C-FLOOR 18 / 168.2
- <b>⊥ I</b>	3350 L 305	C-FLOOR 17 / 165.1
- <del>  - </del>	3050 1 3	<u>C-FLOOR 16 161.8</u> C-FLOOR 15 158.7
	0 1 3050	C-FLOOR 14 155.7
	3050 L 305	
	1 3050 L 3	C-FLOOR 12/149.6
	350 J 3050	C-FLOOR 10 143.5
	450 L ³	C-FLOOR 9 140.4
	7	C-FLOOR 8 136.0
	- +	C-FLOOR 7 / 130.2
	0 1 3800	C-FLOOR 6 126.4
	1050 1 3050	C-FLOOR 5 123.3
	1 3050 L 3	C-FLOOR 4 / 120.3
	2763 5800	
		C-FLOOR 2 / 111.4
i	10720	
	490	ESTABLISHED GRADE 102.5

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![](_page_39_Picture_5.jpeg)

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2 BUILDING C - WEST ELEVATION SCALE: 1 : 300

![](_page_39_Figure_7.jpeg)

![](_page_39_Picture_8.jpeg)

![](_page_40_Figure_0.jpeg)

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![](_page_40_Figure_3.jpeg)

24-09-20 2:29:09 AN

		2 (4451. B)	A CARACTER (	Ē) (I	-) (0	a) (	H)	ROPERTY LINE			ERTY LINE	(1)
								A <u>-ROOF 272.85</u>	272.85 A-ROOF	4000 4 >	PROF	·
_ <u> </u>									<u> </u>			
 				1   				<u>A-MPH 261.35</u>	261.35 A-MPH			   
_  -		SUITE	COF		SUITE		-	A-FLOOR 46 PH 257.15	257.15 A-FLOOR 46 PH	)0 ,		· _
-  - 		SUITE			SUITE		↓ 	A-FLOOR 45 LPH 253.65	253.65 A-FLOOR 45 LPH	3050 , 35	<u> </u>	· _ l l
		SUITE	COF	RRIDOR	SUITE			A-FLOOR 43 247.55	247.55 A-FLOOR 43	3020	· 	-
 - †		I SUITE	COF		SUITE			A-FLOOR 42 244.50	244.50 A-FLOOR 42	)50 , 3 <u>050</u>		· -
-   		SUITE	COF	RIDOR	SUITE		<u>├</u>	A-FLOOR 41 241.45	241.45 A-FLOOR 41 238.40 A-FLOOR 40	3050 30	·	_  <b>_</b>
++ -  -		SUITE	COF	RRIDOR	SUITE			A-FLOOR 39 235.05	235.05 A-FLOOR 39	3320 · · · · · · · · · · · · · · · · · · ·	·	
-   		SUITE SUITE	COF		SUITE		 	A-FLOOR 38 232.00	232.00 A-FLOOR 38	050 <u>3050</u>	<u> </u>	 
		SUITE	COF	RRIDOR	SUITE			A-FLOOR 37 228.95	<u>228.95</u> <u>A-FLOOR 37</u> <u>225.90</u> <u>A-FLOOR 36</u>	. 3050 . 31		┛───   - ──   +
'  -		SUITE	COF		SUITE		 	A-FLOOR 35 222.85	222.85 A-FLOOR 35	20 <u>3050</u>		
		SUITE	COF	RRIDOR	SUITE		-	A-FLOOR 33 219.80	219.80 A-FLOOR 34 216.75 A-FLOOR 33	3050 20		
		SUITE		RRIDOR	SUITE			A-FLOOR 32 213.70	213.70 A-FLOOR 32	3050		   
		SUITE	COF		SUITE		-	A-FLOOR 31 210.35	210.35 A-FLOOR 31	)50 <b>,</b>		· _  🖬
		SUITE	COF	RRIDOR	SUITE		<u>↓                                    </u>	A-FLOOR 30 207.30	207.30 A-FLOOR 30 204.25 A-FLOOR 29	, 3050 3	<b>-</b>	
		SUITE	COF	RRIDOR	SUITE	B 		A-FLOOR 28 201.20	201.20 A-FLOOR 28	2020		
		SUITE	COF	RIDOR	SUITE			A-FLOOR 27 198.15	198.15 A-FLOOR 27	3050		
-  -	<b></b>	SUITE	COF	RIDOR	SUITE			A-FLOOR 25 192.05	<u>192.05</u> A-FLOOR 25	EIGHT	·	
+		SUITE	COF		SUITE		+	A-FLOOR 24 189.00	189.00 A-FLOOR 24	70260 JILDING HE F 350 , 3050		· _
		SUITE			SUITE	 1	 	A-FLOOR 23 185.65	185.65 A-FLOOR 23 182.60 A-FLOOR 22	/ERALL BL	<b></b>	! <b>L</b>
		SUITE	COF	RRIDOR	SUITE			A-FLOOR 21 179.55	179.55 A-FLOOR 21	0 1587 1587 1587 100 100 100		
		SUITE	COF	RIDOR	SUITE		 	A-FLOOR 20 176.50	176.50 A-FLOOR 20	3050 , 300	<b></b>	· _
		SUITE	COF	RRIDOR	SUITE			A-FLOOR 18	169.45 A-FLOOR 18	4000		
  -		SUITE	COF		SUITE		 	A-FLOOR 17 166.40	166.40 A-FLOOR 17	50 , 3050		, _  🖕
↓↓ ↓↓		SUITE	COF	RIDOR	SUITE			A-FLOOR 16 163.35	163.35 A-FLOOR 16	3350 , 30	<b></b>	_
		SUITE	COF	RIDOR	SUITE				156.95 A-FLOOR 14		— — — <b> </b>	
		SUITE SUITE	COF		SUITE		 	A-FLOOR 13 153.90	153.90 A-FLOOR 13	020 <b>*</b>		· _  [
		SUITE	COF	RRIDOR	SUITE			A-FLOOR 12 150.85 A-FLOOR 11 147.80	<u>     150.85 A-FLOOR 12</u> <u>147.80 A-FLOOR 11</u>			 
					SUITE		ı ↓ I	A-FLOOR 10	<u>144.75</u> A-FLOOR 10	20 ^ 3050	<u> </u>	· _
+		SUITE	COF	RRIDOR	SUITE			A-FLOOR 9 141.70 A-FLOOR 8 138.65	<u>A-FLOOR</u> 9 <u></u> 138.65 A-FLOOR 8	. 3050		_
	, 12061		COF		SUITE	J				6400		
93		SUITE	    	CORRID	0R	SUITE		A-FLOOR 7 132.25	132.25 A-FLOOR 7			
		SUITE		CORRIDO	DR	SUITE		AB-FLOOR 6 128.45 AB-FLOOR 5 125.40	128.45 AB-FLOOR 6 125.40 AB-FLOOR 5	3050		
		SUITE		CORRID	PR	SUITE		AB-FLOOR 4 122.35	122.35 AB-FLOOR 4	20 3050	<u> </u>	
+							39960 M HEIGHT	AB-FLOOR 3 119.30	119.30 AB-FLOOR 3	) 302 0		
	AMENITY	AMENITY			μκ	AMENITY	PODIU	AB-FLOOR 2 113.50	113.50 AB-FLOOR 2	 280 		, , , , , , , , , , , , , , , , , , ,
	RETAIL A2	<b>-  </b> - +	_     LOBBY	-	LOADING	PARKING ENTRANCE		AB-FLOOR MZ 111.00				
					_ <u>  </u>		L A ESTA	BLISHED GRADE 102.59	102.59 ESTABLISHED GR			<b></b>
	NG WATE	I IR IR	I I VEST.		PARKING	RAMP DN TO P1	-	P1 MZ 99.55	99.55 P1 MZ	`		
۲K	NG PAR		VST.	PARKING	BIKE LOCKER	S RAMP DN	-	P1 95.10	95.10 P1	000 44;		
RKI	NG	KING LOBBY	VST.	PARKING	BIKE LOCKER	S RAMP DN - TO P4		P2 92.10 P3 89.10	<u>92.10</u> P2 <u>89.10</u> P3	3000 31		
RK			VST.	PARKING		S RAMP DN TO P5		P4 86.10	86.10 P4			
RK	NG PAR	KING LOBBY	VST.	PARKING	BIKE LOCKER	S RAMP DN		P5 83.10	83.10 P5	3000 300		
NG	PAR		VST.	PARKING	BIKE LOCKER	S	1	P7 77 10		3000		PARKINC

ECTION

![](_page_41_Figure_4.jpeg)

![](_page_41_Picture_6.jpeg)

	2 A451.S	
288.70 B-ROOF		F)
284.70 B-ELEVATOR MR		
277.20 B-MPH		
273.00         B-FLOOR 52 PH		
266.45       B-FLOOR 50		 
257.00 B-FLOOR 47 000000000000000000000000000000		1
250.90       B-FLOOR 45	SUITE COR SUITE	
244.80       B-FLOOR 43	SUITE COR SUITE	
238.70       B-FLODR 41		
229.25       B-FLOOR 38		
223.15     B-FLOOR 36		
217.05     B-FLOOR 34		   
207.60 B-FLOOR 31 0555 204.55 B-FLOOR 30		   
201.50       B-FLOOR 29		
195.40       B-FLOOR 27		
188.35       B-FLOOR 25		
181.95       B-FLOOR 23		
172.80     B-FLOOR 20		
166.70       B-FLOOR 18		
160.60       B-FLOOR 16		
<u>     154.20 B-FLOOR 14</u> 151.15 B-FLOOR 13     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900     0900		
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1 BUILDING B - EAST WEST SECTION SCALE: 1 : 350

1	2	BUILDING C - EAST WEST SECTION
	A452.S	SCALE: 1 : 350

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			SUITE		<u>C-FLOOR 54 280.17</u>
				3020	<u>C-FLOOR 53 277.12</u>
			SUITE	3050	<u>C-FLOOR 52 274.07</u> C-FLOOR 51 271.02
			SUITE		<u>C-FLOOR 50 267.97</u>
			SUITE		C-FLOOR 49
					C-FLOOR 48 261.57
		SUITE COR	SUITE		<u>C-FLOOR 47 258.52</u> <u>C-FLOOR 46 255.47</u>
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			SUITE		C-FLOOR 44 249.37
				3020	C-FLOOR 43 246.32
			SUITE		C-FLOOR 41 240.22
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	PARKING	STORAGE LOCKERS	STAIR PARKING	3000	P4 <u>86.10</u>
INTAKE	PARKING	STORAGE LOCKERS	STAIR PARKING	3000	P5 <u>83.10</u> P6 <u>80.10</u>
INTAKE	PARKING	STORAGE LOCKERS	STAIR PARKING	3000	P7 <u>77.10</u>

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3 BUILDING C - NORTH SOUTH SECTION SCALE: 1 : 350

![](_page_42_Picture_9.jpeg)

# **Appendix B**

Zoning

![](_page_43_Picture_3.jpeg)

**Oakville TOC** *Land Use Compatibility Assessment* October 2024 – Dillon File # 23-7122

# Zoning By-Law

![](_page_44_Picture_1.jpeg)

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Town of Oakville

# Midtown Oakville Zones

### 7.1 List of Applicable Zones

Midtown Transitional Commercial MTC Midtown Transitional Employment MTE

### 7.2 Permitted Uses

Uses permitted in the Midtown Oakville Zones are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted use in Table 7.2, below.

Table 7.2:Permitted Uses in the Midtown Oakville Zones								
	MTC	MTE						
Legal <i>uses</i> of land, <i>buildings</i> , and <i>structures</i> existing on the <i>lot</i> as of the effective date of this By-law	✓	~						
Retail Uses								
Outside display and sales area	$\checkmark$	$\checkmark$						
Retail propane and transfer facility	✓ (1)(2)							
Retail store	$\checkmark$	✓ (3)						
Service Commercial Uses								
Adult entertainment establishment		$\checkmark$						
Commercial school	✓							
Dry cleaning/laundry	✓							
Financial institution	✓	<b>√</b> (3)						
Food production	✓	✓ (3)						
Pet care establishment	✓							
Place of entertainment	✓ (4)							
Restaurant	✓	✓ (3)						
Service commercial establishment	✓	✓ (3)						
Sports facility	✓	<b>√</b> (3)						
Veterinary clinic	✓							
Office Uses								
Business office	✓	✓						
Medical office		✓						
Community Uses								
Day care	✓	✓ (3)						
Emergency service facility	✓	✓						

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

#### **OMB** Appeals

**Part 7 in its entirety** 36 - General Electric Canada

Once Midtown Strategy projects are complete, staff anticipate an Official Plan Amendment will be required to update various schedules in the Livable Oakville Plan. Corresponding policy amendments may also be required to reflect changes recommended in the Parking Strategy and Mobility Hub Study work being undertaken in tandem with the Class Environmental Assessment.

In the interim, staff are recommending two transition zones - Midtown Transitional Commercial (MTC) and Midtown *Transitional Employment (MTE) – apply* that freeze building envelopes to those legally existing February 25, 2014. New buildings and structures would require a planning application, allowing Council to review a proposal and establish conformity with the Livable Oakville Plan (in particular, the acquisition of future roads required in Midtown Oakville). A limited range of additional uses are permitted that conform to the uses permitted in the Livable Oakville Plan to allow for the continued use of existing buildings should vacancies emerge.

Staff anticipate Midtown Strategy work to be complete later in 2015. Implementing zoning for Midtown Oakville would be introduced through a separate process, including a dedicated statutory public meeting for the Official Plan and Zoning By-law Amendments.

# Midtown Oakville Zones

Table 7.2:Permitted Uses in the Midtown Oakville Zones								
	MTC	MTE						
Open Space Uses								
Conservation use	✓	✓						
Park, public	✓	✓						
Stormwater management facility	✓	✓						
Employment Uses								
Training facility		✓						
Hospitality Uses								
Hotel		✓						
Public hall	✓ (1)	✓						
Community Uses								
Art gallery	✓							
Community centre	✓	$\checkmark$						
Day care	✓	✓						
Emergency service facility	✓	✓						
Library	✓							
School, private	✓							
Community Uses								
Conservation use	✓	✓						
Park, public	✓	✓						
Stormwater management facility	✓	$\checkmark$						

#### Additional Regulations for Permitted Uses Table 7.2

- 1. Not permitted on a *lot* abutting a residential *zone*.
- 2. Only permitted for the sale of propane to the general public for automotive and recreational purposes.
- Permitted only within the same *building* or part thereof *used* by any other *use* not subject to this footnote.
   A maximum of 20% of the *net floor area* of the *building* shall be cumulatively occupied by all *uses* subject to this footnote.
- 4. Permitted only as an *accessory use*.

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

# Midtown Oakville Zones

## 7.3 Regulations

The regulations for the Midtown Oakville *Zones* are set out in Table 7.3, below.

Table 7.3:         Regulations in the Midtown Oakville Zones								
	МТС	MTE						
Minimum lot frontage								
Minimum lot area								
Maximum lot coverage								
Minimum front yard	Shall be as legally existing as of the effective date of this By-law.							
Minimum flankage yard								
Minimum interior side yard								
Minimum rear yard								
Maximum <i>height</i>								

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

# **Commercial Zones**

### 9.1 List of Applicable Zones

2
3
4

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in zoning section of the Building Services department to confirm the applicable zoning.

#### 9.2 Permitted Uses (2016-023)

*Uses* permitted in the Commercial *Zones* are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 9.2, below.

Table 9.2:         Permitted Uses in the Commercial Zones (2017-025)										
	C1	C2	C3	C4						
Art gallery	✓	$\checkmark$	✓							
Business office	✓	$\checkmark$	~							
Commercial parking area										
Commercial school	✓	$\checkmark$	~							
Community centre	✓	$\checkmark$	~							
Conservation use	✓	$\checkmark$	~	✓						
Day care	✓ (1)	$\checkmark$	~							
Drive-through facility	✓ (1)	✓ (1)	✓ (1)	✓ (1)(2)						
Dry cleaning depot (2016-023)	✓	$\checkmark$	~							
Dry cleaning/laundry establishment (2016-023)		$\checkmark$	√							
Emergency service facility	✓	$\checkmark$	√							
Emergency shelter (PL240317)	<b>√</b> (7)									
Financial institution	✓	$\checkmark$	~							
Food bank	✓	$\checkmark$	~							
Food production	✓	$\checkmark$	~							
Funeral home		$\checkmark$								
Library	✓	$\checkmark$	~							
Medical office	✓	$\checkmark$	~							
Motor vehicle repair facility			<b>√</b> (6)							
Motor vehicle service station			~	✓						
Motor vehicle washing facility			~	<b>√</b> (5)						
Museum	✓	$\checkmark$	~							
Outside display and sales area	✓	$\checkmark$	✓	✓						
Outside miniature golf		$\checkmark$	~							
Park, public	✓	$\checkmark$ $\checkmark$	~	✓						
Pet care establishment	$\checkmark$	$\checkmark$	√							
Place of entertainment		$\checkmark$	√							
Place of worship	<b>√</b> (4)	<b>√</b> (4)	✓ (4)							

# Commercial Zones

Table 9.2:         Permitted Uses in the Commercial Zones (2017-025)										
	C1	C2	C3	C4						
Rental establishment		$\checkmark$	$\checkmark$							
Restaurant	~	✓	✓	<b>√</b> (5)						
Retail propane and transfer facility			<b>√</b> (3)	<b>√</b> (3)						
Retail store	~	✓	✓	<b>√</b> (5)						
School, private (2016-023)	✓ (1)	✓	✓							
Service commercial establishment	~	✓	✓							
Sports facility	~	✓	✓							
Stormwater management facility	~	✓	✓	$\checkmark$						
Veterinary clinic	~	✓	✓							

#### Additional Regulations for Permitted Uses Table 9.2

- 1. Permitted only on a *lot* abutting a major *arterial road*.
- 2. A maximum one *drive-through facility* shall be permitted on a *lot*.
- 3. Shall not be permitted on a *lot* abutting any Residential *Zone*.
- 4. The maximum *lot area* shall be 2.5 hectares. The maximum percentage of *net floor area* permitted to be occupied by a *place of worship* is 50% of the total *net floor area* on the *lot*.
- 5. Permitted only *accessory* to a *motor vehicle service station*.
- 6. Permitted only accessory to a retail store.
- 7. Prohibited on the *first storey* of a *building*. (*PL140317*)

#### 9.3 Regulations

The regulations for *lots* in a Commercial Use *Zone* are set out in Table 9.3, below.

Table 9.3:         Regulations in the Commercial Zones										
(2015-018)	C1	C2	C3	C4						
Minimum lot area	0.2 ha	2.0 ha	4.0 ha	n/a						
Minimum lot frontage	30.0 m	n/a	n/a	30.0 m						
Minimum lot depth	n/a	n/a n/a		30.0 m						
Minimum front yard	0.0 m	3.0 m 3.0 m		3.0 m						
Maximum front yard	17.5 m	17.5 m (1)	17.5 m (1)	n/a						
Minimum flankage yard	0.0 m	3.0 m	3.0 m	3.0 m						
Maximum flankage yard	17.5 m	m 17.5 m (1) 17.5 m (1		n/a						
Minimum interior side yard	0.0 m	0.0 m 0.0 m		3.0 m						

# **Residential Zones**

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

## 6.1 List of Applicable Zones

Residential Low	RL1, RL2, RL3, RL4, RL5, RL6
	RL7, RL8, RL9, RL10, RL11
Residential Uptown Core	RUC
Residential Medium	RM1, RM2, RM3, RM4
Residential High	RH

#### 6.2 Permitted Uses

*Uses* permitted in the Residential *Zones* are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Tables 6.2.1 and 6.2.2, below.

Table 6.2.1: Permitted U Residential	Permitted Uses in the Residential Low Zones and the Residential Uptown Core Zone (2017-025)								
		RL1, RL2, RL3, RL4, RL5, RL6	RL7, RL8, RL9	RL10	RL11	RUC			
Accessory dwelling unit (2023-024)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Bed and breakfast establishment	(1)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Conservation use		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Day care	(1)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Detached dwelling		✓	$\checkmark$	✓		✓			
Duplex dwelling				✓					
Emergency service facility		✓	✓	✓	✓	✓			
Emergency shelter									
Home occupation		✓	$\checkmark$	~	~	~			
Linked dwelling					✓				
Lodging house	(1)(2)	✓			✓	~			
Park, public		✓	$\checkmark$	✓	✓	✓			
Place of worship									
Private home day care	(1)	✓	√	~	~	~			
Private school									
Semi-detached dwelling			√			~			
Short-term accommodation (2023-024)	(1)	√	✓	✓	✓	✓			
Stormwater management facility		✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Townhouse dwelling						$\checkmark$			

#### Additional Regulations for Permitted Uses Table 6.2.1

- 1. A maximum of one of the *uses* subject to this footnote shall be permitted
- on a *lot. (2023-024)*2. The maximum number of *lodging units* shall be 3.
- 3. Permitted only on a *corner lot*.

# **Residential Zones**

Table 6.2.2:Permitted Uses in the Residential Medium and Residential High Zones (2017-025)										
	RM1	RM2	RM3	RM4	RH					
Accessory Dwelling Unit (2023-024)	✓									
Apartment dwelling				✓	~					
Back-to-back townhouse dwelling		✓								
Conservation use	✓	<ul> <li>✓</li> </ul>	✓	~	~					
Day care (1	) 🗸	<ul> <li>✓</li> </ul>	✓	<ul> <li>✓</li> </ul>	~					
Emergency service facility	✓	<ul> <li>✓</li> </ul>	✓	<ul> <li>✓</li> </ul>	~					
Home occupation	✓	<ul> <li>✓</li> </ul>	✓	<ul> <li>✓</li> </ul>	~					
Long term care facility			✓	~	~					
Park, public	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	~	~					
Private home daycare (1	) 🗸	<ul> <li>✓</li> </ul>	✓	~	~					
Retail store, accessory				1	~					
Retirement home			✓	~	~					
Short-term accommodation (1	) 🗸	<ul> <li>✓</li> </ul>	✓	~	~					
Stacked townhouse dwelling			✓							
Stormwater management facility	✓	✓	✓	✓	~					
Townhouse dwelling	<ul> <li>✓</li> </ul>									

#### Additional Regulations for Permitted Uses Table 6.2.2

1. A maximum of one of the *accessory uses* subject to this footnote shall be permitted in a *dwelling* or an *accessory dwelling unit* associated with the main *dwelling*. (2023-024)

# Mixed Use Zones

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

#### 8.1 List of Applicable Zones

Central Business District	CBD
Main Street 1	MU1
Main Street 2	MU2
Urban Centre	MU3
Urban Core	MU4

#### 8.2 Permitted Uses

*Uses* permitted in the Mixed Use *Zones* are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 8.2, below.

Table 8.2:       Permitted Uses in the Mixed Use Zones (2017-025)						
		CBD	MU1	MU2	MU3	MU4
Accessory dwelling unit (2023-024)		$\checkmark$	✓	√		
Apartment dwelling		✓ (1)	<b>√</b> (3)	<b>√</b> (3)	✓ (3)	<b>√</b> (3)
Art gallery	(7)	✓	✓	✓	✓	✓
Bed and breakfast establishment	(5)	$\checkmark$				
Business office	(6)(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Commercial parking area		$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Commercial school	(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Community centre		$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Conservation use		$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Day care		<b>√</b> (5)	✓	$\checkmark$	✓	$\checkmark$
Detached dwelling	(2)	$\checkmark$	✓	✓		
Dormitory	(4)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Dry cleaning depot (PL140317)	(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Dry cleaning/laundry establishment (PL140317)	(7)	$\checkmark$	~	✓	✓	$\checkmark$
Emergency service facility		$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Emergency shelter (PL140317)		<b>√</b> (8)	<b>√</b> (8)	✓ (8)	✓ (8)	<b>√</b> (8)
Financial institution	(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Food bank	(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Food production	(7)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Funeral home		$\checkmark$				
Home Occupation	(5)	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$
Hotel	(7)	$\checkmark$			✓	$\checkmark$
Library		$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$
Live-work dwelling (2017-025)	(2)	$\checkmark$	✓	$\checkmark$		
Long term care facility		✓ (1)	<b>√</b> (3)	<b>√</b> (3)	✓ (3)	<b>√</b> (3)
Medical office	(6)(7)	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$
Motor vehicle rental facility					✓	$\checkmark$

# Mixed Use Zones

Table 8.2:       Permitted Uses in the Mixed Use Zones (2017-025)						
		CBD	MU1	MU2	MU3	MU4
Museum		$\checkmark$	✓	$\checkmark$	√	√
Outside display and sales area	(7)	$\checkmark$	✓	√	✓	√
Park, public		$\checkmark$	✓	√	✓	√
Pet care establishment	(7)	$\checkmark$	✓	✓	✓	√
Place of entertainment	(7)	$\checkmark$	✓	✓	✓	✓
Place of worship		$\checkmark$	✓	✓	✓	✓
Post-secondary school		$\checkmark$	✓	✓	✓	✓
Private home day care	(5)	$\checkmark$	✓	✓	✓	✓
Public hall	(7)	$\checkmark$			✓	✓
Rental establishment	(7)	$\checkmark$	✓	✓	$\checkmark$	✓
Restaurant	(7)	$\checkmark$	$\checkmark$	✓	$\checkmark$	$\checkmark$
Retail store	(7)	$\checkmark$	✓	✓	$\checkmark$	✓
Retirement home		✓ (1)	✓ (3)	✓ (3)	✓ (3)	<b>√</b> (3)
School, private		$\checkmark$	✓	✓	✓	✓
School, public		$\checkmark$	✓	✓	✓	✓
Semi-detached dwelling	(2)	$\checkmark$	✓	✓		
Service commercial establishment	(7)	$\checkmark$	✓	✓	~	✓
Short-term accommodation (2023-024)	(5)	$\checkmark$	✓	✓	✓	✓
Sports facility	(7)	$\checkmark$	✓	✓	✓	✓
Stormwater management facility		$\checkmark$	$\checkmark$	✓	$\checkmark$	$\checkmark$
Taxi dispatch	(7)	$\checkmark$	✓	✓	✓	✓
Townhouse dwelling	(2)	$\checkmark$	✓	✓		
Veterinary clinic	(7)	$\checkmark$	~	✓	✓	✓

#### Additional Regulations for Permitted Uses Table 8.2

- 1.
- a) Stand-alone residential *buildings* are not permitted on *lots* having a *front lot line* or *flankage lot line* abutting Lakeshore Road. (2021-068)
- b) Residential *dwelling units* located on the *first storey* shall have the *main front entrance* oriented towards a *public road. (2021-068)*
- 2. Permitted only where the use legally existed on the lot on the effective date of this By-law.
- 3.
- a) Prohibited in the first 9.0 metres of depth of the *building*, measured in from the *main wall* oriented toward the *front lot line*, on the *first storey*. (2021-068)
- b) Notwithstanding this, an *ancillary residential use* on the *first storey*is permitted to occupy a maximum of 15% of the length of the *main wall* oriented toward a *front lot line*. (2021-068)
- 4. Only permitted *accessory* to and on the same *lot* as a post-secondary school or private school.

# Open Space Zones

#### 12.1 List of Applicable Zones

Park	01
Private Open Space	O2
Cemetery	CEM

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in zoning section of the Building Services department to confirm the applicable zoning.

## 12.2 Permitted Uses

*Uses* permitted in the Open Space *Zones* are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 12.2, below.

Table 12.2:Permitted Uses in the Open Space Zones (2017-025)					
	O1	02	СЕМ		
Business office		✓ (1)			
Cemetery			✓		
Commercial school		<ul><li>✓ (1)</li></ul>			
Community centre	$\checkmark$	✓			
Conservation use	$\checkmark$	✓	✓		
Emergency service facility	$\checkmark$	✓			
Golf course		✓			
Library		✓ (1)			
Marina	$\checkmark$				
Museum		<ul><li>✓ (1)</li></ul>			
Outside miniature golf course		✓			
Park, private		✓			
Park, public	$\checkmark$	✓			
Public hall		✓ (1)			
Restaurant		✓ (1)			
Retail store		✓ (1)			
Stormwater management facility	$\checkmark$	✓	✓		
Service commercial establishment		✓ (1)			
Sports facility		✓			

#### Additional Regulations for Permitted Uses Table 12.2

1. Permitted only *accessory* to another permitted *use*.

## Open Space Zones

## 12.3 Regulations

The regulations for *lots* in an Open Space *Zone* are set out in Table 12.3, below.

Table 12.3:         Regulations in the Open Space Zones				
	01	O2	CEM	
Minimum lot area	n/a	n/a	n/a	
Minimum lot frontage	n/a	n/a	n/a	
Minimum front yard (2015-018)	0.0 m	12.0 m	5.0 m	
Minimum flankage yard (2015-018)	0.0 m	12.0 m	5.0 m	
Minimum interior side yard (2015-018)	4.5 m	12.0 m	5.0 m	
Minimum rear yard (2015-018)	4.5 m	12.0 m	7.5 m	
Maximum <i>height</i>	14.0 m	14.0 m	14.0 m	
Maximum lot coverage	25%	25%	30%	

![](_page_55_Figure_5.jpeg)

The black circles are letters corresponding to the applicable yard in the regulations table. The shaded area represents the potential building envelope remaining once minimum yards are removed.

![](_page_55_Figure_7.jpeg)

Height is measured to the tallest point of the building.

## Other Zones

### 14.1 List of Applicable Zones

Utility	U
Future Development (2023-024)	FD
Stormwater Management Facility	SMF

#### 14.2 Permitted Uses

*Uses* permitted in the Other *Zones* are denoted by the symbol " $\checkmark$ " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 14.2, below.

Table 14.2:         Permitted Uses           (2017-025) (2023-024)	Permitted Uses in the Other Zones (2017-025) (2023-024)			
	U	FD	SMF	
Conservation use	$\checkmark$	✓	✓	
Emergency service facility		✓		
Legal <i>uses</i> of land existing on the <i>lot</i> as of the effective date of this By-law		✓ (1)		
Major transit station (2017-025)	✓ (2)			
Park, private			✓	
Park, public		✓	✓	
Stormwater management facility	✓	✓	$\checkmark$	

#### Additional Regulations for Permitted Uses Table 14.2

1.

- a) Only *buildings* and *structures* legally existing on the effective date of this By-law and one *accessory building* or *structure* constructed after the effective date of this By-law are permitted.
- b) If the use is a *dwelling*, the *uses* listed under *accessory* residential *uses* in Table 6.2.1 of this By-law are additionally permitted, subject to the additional regulations of that Table, and Section 6.5 of this By-law shall apply to permit *accessory buildings* and *structures*.
- 2. a) Only permitted within and adjacent to a *railway corridor* at locations designated by an operator of a passenger rail service.
  - b) Accessory uses to a major transit station
    - i) shall be limited to *restaurants, retail stores, dry cleaning/ laundry* and *service commercial establishments*;
    - ii) may be stand-alone or within shared *premises*;
    - iii) shall have a maximum total *net floor area* of 500.0 square metres; and,
    - iv) shall be exempt from the parking and *yard* regulations of this By-law (2017-025)

The Utility (U) Zone applies to most significant infrastructure facilities in Oakville. Infrastructure is permitted broadly across Oakville in Section 4.10 of this By-law and not in the Permitted Use Tables.

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Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in the zoning section of the Building Services department to confirm the applicable zoning.

## Other Zones

### 14.3 Regulations

The regulations for the Other Zones are set out in Table 14.3, below.

Table 14.3:         Regulations in the Other Zones (2023-024)					
	U	FD	SMF		
Minimum lot area	n/a	n/a	n/a		
Minimum lot frontage	n/a	n/a	n/a		
Minimum front yard	7.5 m	9.0 m	n/a		
Minimum flankage yard	6.0 m	2.4 m	n/a		
Minimum interior side yard	6.0 m	2.4 m	n/a		
Minimum rear yard	7.5 m	7.5 m	n/a		
Maximum <i>height</i>	n/a	10.0 m	n/a		
Maximum lot coverage	n/a	(1)	n/a		

#### Additional Regulations for Zone Regulations Table 14.3

1.

- a) The maximum *lot coverage* and *floor area* shall be the *lot coverage* and *floor area* that legally existed on the effective date of this Bylaw, and may be increased by a maximum of 10% at the location of the *building* only.
- b) For *accessory buildings* or *structures*, the regulations of Section 6.5 shall apply.

# Appendix C

Transportation Emission Calculations

![](_page_58_Picture_2.jpeg)

**Oakville TOC** *Land Use Compatibility Assessment* October 2024 – Dillon File # 23-7122

MOVES	Input	Parameter	Summary
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Key MOVES Parameters	MOVES Emission Rate Run		
Geography	A surrogate U.S. city (Niagara county) was selected.		
Time Concern	2023 Year - current assessment year.		
lime Span	January and July as worst-case months.		
	Average temperature and humidity for January and July months in Oakville in 2023		
Meteorology	January: 33.8 °F, 81%		
	July:71.6 °F, 75%		
	Passenger Cars		
	Passenger trucks		
	Light Commercial Trucks		
Vehicle types	Single-unit short-haul trucks		
	Single-unit long-haul trucks		
	Combination-unit short-haul Trucks		
	Combination-unit long-haul Trucks		
	Transit Bus		
Road types	Urban Restricted Access (MOVES ID= 4)		
Dellesterate	CO, NOx, SO2, Particulates, and VOCs including 1,3-butadiene, acetaldehyde, acrolein, benzene,		
Pollutants	benzo(a)pyrene and formaldehyde.		
Vehicle Type VMT	county default hour VMT Fraction.		
Age Distribution	county-default age group		
	All vehicle are assumed to travel under the posted speed limit (100 km/hr)		
Average Speed Distribution	(MOVES speed bin=13)		
Fuel	county default fuel inputs		
ruei	It is assumed all trucks and buses use diesel fuel and passenger cars use gasoline.		

Road		2019 Base AADT ⁽¹⁾	2023 Projected AADT	Road Length (KM)
Queen Elizabeth Way (QEW) (between Trafalgar Rd Interchange and Dorval Rd	All Vehicles	212,300	229,800	2.13
Interchange)	Heavy Trucks	19,100	20,674	

The traffic volume AADT was obtained from the Ministry of Transportation (MTO) for the most recent year with available data (i.e., 2019) and projected for AADT 2023 year using a growth rate of 2% per annum. The MTO classifies percentage of trucks based on the vehicle length (typically exceeds 12.49 meter which is considered as heavy trucks).

The MTO indicated the traffic counts collected during the COVID-19 pandemic (after March 2020) should not be used for assessing impacts. https://www.library.mto.gov.on.ca/SydneyPLUS/TechPubs/Portal/tp/tvSplash.aspx

#### Ontario vehicle by type of vehicle in 2019 and corresponding vehicle types in MOVES

Vehicle Category	Type of Vehicle	Number of Vehicle - 2019 Ontario	Vehicle Category Percentages	Corresponding MOVES Vehicle types in MOVES	MOVES Source
Passenger Cars and Trucks	Vehicles weighing less than 4,500 kilograms	8,514,952	89.3%	Passenger cars Passenger trucks	21, 31
Median Trucks	Vehicles weighing 4,500 kilograms to 14,999 kilograms	134,789	1.4%	Light commercial trucks Single-unit short-haul trucks Single-unit long-haul trucks	32,52,53
Heavy Trucks	Vehicles weighing 15,000 kilograms or more	-	9.0%	Combination-unit short-haul Trucks Combination-unit long-haul Trucks	61,62
Buses	Buses	30,752	0.3%	Transit Bus	42
Total Vehicle - above categories		8,680,493	100.0%	-	-

Ontario vehicle data obtained from Statstics Canada for the 2019 year.

The heavy trucks precentage is based on the MTO traffic volume AADT while other vehicle distributions (Passenger cars and trucks, median trucks, and buses) are based on the registered vehicle number obtained from Statstics Canada

As the traffic volume AADT from Statstics Canada is only available by vehicle category, the emission factors for the corresponding MOVES source types were averaged for each vehicle class and applied to the traffic volume.

#### Estimated QEW AADT breakdown by vehicle category

Vehicle Category	QEW AADT by Vehicle Category	Vehicle Kilometer Travelled per day (VKT/day)	Vehicle Kilometer Travelled in the peak hour (VKT/hr)
Passenger Cars and Trucks	205,138	436,943	33,833
Median Trucks	3,247	6,917	536
Heavy Trucks	20,674	44,037	3,410
Buses	741	1,578	122
Total Vehicles -2023 year	229,800	489,475	37,900

Notes:

Traffic volume for each vehicle category is estimated based on the projected AADT for 2023 and the percentages of each vehicle category for Ontario. Vehicle Kilometer Travelled (VKT) per day = AADT x road length (2.13 km) Vehicle Kilometer Travelled (VKT) in the peak hour = AADT x VKT fraction for the peak hour x road length (2.13 km)

#### MOVES VKT distribution by hour of the day

		Ratio to the peak VKT
	VKT distribution -	(for estimating variable hourly
Hour of the Day	Urban Weekday	emissions)
1	0.00986	0.1273
2	0.00627	0.0810
3	0.00506	0.0653
4	0.00467	0.0603
5	0.00699	0.0903
6	0.01849	0.2388
7	0.04596	0.5936
8	0.06964	0.8994
9	0.06083	0.7856
10	0.05029	0.6495
11	0.04994	0.6450
12	0.05437	0.7022
13	0.05765	0.7445
14	0.05803	0.7495
15	0.06226	0.8041
16	0.071	0.9170
17	0.07697	0.9941
18	0.07743	1.0000
19	0.05978	0.7721
20	0.04439	0.5733
21	0.03545	0.4578
22	0.03182	0.4110
23	0.02494	0.3221
24	0.01791	0.2313
Sum of all fractions	1	
VKT fraction for the peak hour	0.07743	

Typical hourly traffic profile for weekdays for an urban roadway was used to scale for the hourly VKT and associated hourly traffic tailpipe emissions. For accessing contaminants with 1-hr average criteria, variable hourly emissions are estimated and used for dispersion modeling. For assessing contaminants with 24-hr average criteria, daily average emission rates are estimated and used for dispersion modeling.

#### MOVES Emission Rate Summary for Selected Vehicle Types

_____

		Vehicle Types	Passenger Cars	Passenger Trucks	Light Commercial Trucks	Transit Buses	Single Unit Short-Haul Trucks	Single Unit Long-Haul Trucks	<b>Combination Short-Haul Trucks</b>	Combination Long-Haul Trucks
Pollutants	Pollutant ID	Process ID	Emission Rate	Emission Rate	Emission Rate	Emission Rate	Emission Rate	Emission Rate	Emission Rate	Emission Rate
Vides of Nitrogen (NOv)	3	1	9 5F-02	6 35-01	4.85-01	(5/ VKT) 1 1F+00	7 15-01	6 6F-01	1 7E+00	2 OF+00
Carbon Monoxide (CO)	2	1	1 5E+00	9 3F-01	4.82 01 6.6E-01	7.6E-01	4 7E-01	4 6F-01	8 4F-01	9 2E-01
Sulfur Dioxide (SO2)	31	1	8 3E-04	9 4F-04	9 5F-04	2 7F-03	1 7F-03	1 6F-03	3 0F-03	3 0F-03
Primary Exhaust PM10 - Total	100	-	1.3E-03	3.0E-02	2.1E-02	9.6E-03	2.0E-02	1.9E-02	2.8E-02	3.4E-02
Primary PM10 - Brakewear Particulate	106	- 9	3.0E-03	4.7E-03	5.0E-03	9.7E-03	1.0E-02	1.0E-02	7.0E-03	7.7E-03
Primary PM10 - Tirewear Particulate	107	10	1.1E-02	1.3E-02	1.4E-02	2.1E-02	2.0E-02	2.0E-02	3.5E-02	3.9E-02
Primary Exhaust PM2.5 - Total	110	1	1.1E-03	2.7E-02	1.9E-02	8.8E-03	1.8E-02	1.7E-02	2.6E-02	3.2E-02
Primary PM2.5 - Brakewear Particulate	116	9	3.7E-04	5.9E-04	6.3E-04	1.2E-03	1.2E-03	1.3E-03	8.8E-04	9.7E-04
Primary PM2.5 - Tirewear Particulate	117	10	1.6E-03	2.0E-03	2.1E-03	3.1E-03	3.1E-03	3.1E-03	5.2E-03	5.9E-03
Benzo(a)pyrene particle	74	1	5.0E-07	1.5E-06	9.9E-07	3.5E-07	8.6E-07	8.2E-07	7.7E-07	1.2E-06
Benzo(a)pyrene gas	174	1	5.0E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Acrolein	27	1	1.1E-05	6.8E-04	4.5E-04	2.0E-04	2.7E-04	2.7E-04	2.4E-04	3.0E-04
Acetaldehyde	26	1	1.8E-04	3.8E-03	2.5E-03	1.3E-03	1.6E-03	1.6E-03	1.8E-03	2.1E-03
Benzene	20	1	7.3E-04	7.8E-04	5.2E-04	2.1E-04	3.1E-04	3.0E-04	1.9E-04	2.7E-04
Formaldehyde	25	1	2.4E-04	8.1E-03	5.4E-03	2.5E-03	3.3E-03	3.2E-03	2.6E-03	3.4E-03
1,3-Butadiene	24	1	6.4E-05	2.9E-04	1.9E-04	6.4E-05	1.1E-04	1.1E-04	6.8E-05	9.4E-05
Total PM2.5										
(Exhaust + Brakewear + tirewear)	110+116+117	-	3.1E-03	3.0E-02	2.2E-02	1.3E-02	2.2E-02	2.2E-02	3.2E-02	3.8E-02
Total PM10										
(Exhaust + Brakewear + tirewear)	100+106+107	-	1.5E-02	4.8E-02	4.0E-02	4.0E-02	5.0E-02	5.0E-02	7.0E-02	8.1E-02
Total BaP	74,174									
(Particulate and Gas)	/471/4	-	5.1E-07	1.5E-06	9.9E-07	3.5E-07	8.6E-07	8.2E-07	7.7E-07	1.2E-06

#### Averaged Emission Rate for Vehicle Categories

		Averaged Emission Rate by Vehicle Categories						
Pollutants		(g/VKT)						
	Pollutant ID	Passenger Cars and Trucks	Median Trucks	Heavy Trucks	Buses			
Oxides of Nitrogen (NOx)	3	3.6E-01	6.2E-01	1.8E+00	1.1E+00			
Carbon Monoxide (CO)	2	1.2E+00	5.3E-01	8.8E-01	7.6E-01			
Sulfur Dioxide (SO2)	31	8.9E-04	1.4E-03	3.0E-03	2.7E-03			
Acrolein	27	3.4E-04	3.3E-04	2.7E-04	2.0E-04			
Acetaldehyde	26	2.0E-03	1.9E-03	1.9E-03	1.3E-03			
Benzene	20	7.6E-04	3.8E-04	2.3E-04	2.1E-04			
Formaldehyde	25	4.2E-03	4.0E-03	3.0E-03	2.5E-03			
1,3-Butadiene	24	1.8E-04	1.4E-04	8.1E-05	6.4E-05			
Total PM2.5	110,116,117	1 75 02	3 35 03	2 55 02	1 25 02			
(Exhaust + Brakewear + tirewear)	110+110+117	1:72-02	2.22-02	5.5E-02	1.3E-02			
Total PM10	100,106,107	2 15 02	4 EE 02	7 65 02	4.05.03			
(Exhaust + Brakewear + tirewear)	100+100+107	3.1E-02	4.66-02	7.6E-02	4.02-02			
Total BaP	74,174	0.95.07	8 OF 07	0.05.07	3 55 07			
(Particulate and Gas)	/4+1/4	9.00-07	0.9E-07	9.95-07	5.52-07			

#### 24-hr Average Tailpipe Emission Rates

Pollutants	24-hr Average Tailpipe Emission Rates (g/s)						
Fonutants	Passenger Cars and Trucks	Median Trucks	Heavy Trucks	Buses	Total Vehicles		
Oxides of Nitrogen (NOx)	1.8E+00	4.9E-02	9.3E-01	2.0E-02	2.8E+00		
Carbon Monoxide (CO)	6.2E+00	4.3E-02	4.5E-01	1.4E-02	6.7E+00		
Sulfur Dioxide (SO2)	4.5E-03	1.1E-04	1.5E-03	5.0E-05	6.2E-03		
Acrolein	1.7E-03	2.7E-05	1.4E-04	3.6E-06	1.9E-03		
Acetaldehyde	1.0E-02	1.5E-04	9.9E-04	2.3E-05	1.1E-02		
Benzene	3.8E-03	3.0E-05	1.2E-04	3.8E-06	4.0E-03		
Formaldehyde	2.1E-02	3.2E-04	1.5E-03	4.6E-05	2.3E-02		
1,3-Butadiene	8.9E-04	1.1E-05	4.1E-05	1.2E-06	9.4E-04		
Total PM2.5							
(Exhaust + Brakewear + tirewear)	8.4E-02	1.8E-03	1.8E-02	2.4E-04	1.0E-01		
Total PM10							
(Exhaust + Brakewear + tirewear)	1.6E-01	3.7E-03	3.8E-02	7.3E-04	2.0E-01		
Total BaP							
(Particulate and Gas)	5.0E-06	7.1E-08	5.0E-07	6.5E-09	5.5E-06		
Total TSP							
(Exhaust + Brakewear + tirewear)	1.6E-01	3.7E-03	3.8E-02	7.3E-04	2.0E-01		

Notes:

As the particulates from tailpipe exhaust are mainly PM2.5 and PM10, the TSP emssions are assumed equal to PM10.

24-hr tailpipe emission rates (g/s)= Vehicle Travelling Emission Factor (g/VKT) x Vehicle Kilometer Travelled per day (VKT/day) / 24 (hr/day) / 3600 (s/hr)

Sample calculation for 24-hr SO2 emission rate for Buses (g/s)

= SO2 Emission factor (g/VKT) X Bus kilometer travelled per day (VKT/day)/ 24 (hrs/day) /3600 (s/hr)

= 0.00273894 (g/VKT) x 1578 (VKT/day) / 24 (hrs/day) /3600 (s/hr)

**5.0E-05** (g/s)

#### 1-hr Average Tailpipe Emission Rates (Peak Hour)

Dollutante	Peak Hour Tailpipe Emission Rates (g/s)						
Poliutants	Passenger Cars and Trucks	Median Trucks	Heavy Trucks	Buses	Total Vehicles		
Oxides of Nitrogen (NOx)	3.4E+00	9.2E-02	1.7E+00	3.8E-02	5.3E+00		
Carbon Monoxide (CO)	1.2E+01	7.9E-02	8.3E-01	2.6E-02	1.3E+01		
Sulfur Dioxide (SO2)	8.3E-03	2.1E-04	2.9E-03	9.3E-05	1.1E-02		
Acrolein	3.2E-03	4.9E-05	2.6E-04	6.7E-06	3.6E-03		
Acetaldehyde	1.9E-02	2.8E-04	1.8E-03	4.3E-05	2.1E-02		
Benzene	7.1E-03	5.6E-05	2.2E-04	7.0E-06	7.4E-03		
Formaldehyde	3.9E-02	5.9E-04	2.8E-03	8.6E-05	4.3E-02		
1,3-Butadiene	1.6E-03	2.0E-05	7.7E-05	2.2E-06	1.7E-03		
Total PM2.5							
(Exhaust + Brakewear + tirewear)	1.6E-01	3.3E-03	3.3E-02	4.5E-04	1.9E-01		
Total PM10							
(Exhaust + Brakewear + tirewear)	2.9E-01	6.9E-03	7.2E-02	1.4E-03	3.7E-01		
Total BaP							
(Particulate and Gas)	9.2E-06	1.3E-07	9.4E-07	1.2E-08	1.0E-05		
Total TSP							
(Exhaust + Brakewear + tirewear)	2.9E-01	6.9E-03	7.2E-02	1.4E-03	3.7E-01		

Notes

As the particulates from tailpipe exhaust are mainly PM2.5 and PM10, the TSP emssions are assumed equal to PM10.

1-hr tailpipe emission rates (g/s)= Vehicle Travelling Emission Factor (g/VKT) x Vehicle Kilometer Travelled in the peak hour (VKT/hr) / 3600 (s/hr)

Sample calculation for 1-hr NOx emission rate for Heavy Trucks (g/s)

= NOx Emission factor (g/VKT) X Heavy Trucks kilometer travelled in the peak hour (VKT/hour) /3600 (s/hr)

= 1.83197 (g/VKT) x 3410(VKT/hour) /3600 (s/hr)

**1.7E+00** (g/s)

#### Re-suspended road dust from vehicle travel

Emission estimation method reference: US EPA AP-42 Chapter 13.2.1 Paved Roads

#### Re-suspended road dust from vehicle travel

Total VKT in the peak hour ⁽¹⁾	Total VKT in a day ⁽²⁾	Particulate Emission Factor ⁽³⁾ - Hourly and Daily	Particulate Emission Factor ⁽³⁾ - Annual		Particulate Em (g/s	ission Rates s)	
VKT/hr	VKT/day	g/VKT	g/VKT	Contaminants	1-hr	24-hr	Annual ⁽⁴⁾
		0.379	0.344	TSP	3.98	2.14	1.95
37,900	489,475	0.073	0.066	PM10	0.76	0.41	0.37
		0.018	0.016	PM2.5	0.19	0.10	0.09

Notes:

(1) Total VKT in the peak hour is conservatively used for estimating the worst-case hourly emission of re-suspended road dust.

(2) Total distance travelled per day is the sum of distance travelled daily for all vehicle categories.

(3) Emission factors obtained from US EPA AP-42 Chapter 13.2.1 "Paved Roads" Equation 2.

For long-term annual emissions, a control factor (i.e., 1-P/4N) related to precipitation frequency is applied.

No emission controls are applied to short-term emissions (i.e., hourly and daily)

## $E=k(sL)^{0.91} x(W)^{1.02} x(1-P/4N)$

where,

*E= average particulate emission factor (g/VKT)* 

*k* = particle size multiplier for particle size range and units of interest (see below)

*sL* = *road surface silt loading* (*g/m2*)

*W* = average weight (tons) of the vehicles traveling the road.

P= number of "wet" days with at least 0.254 mm (0.01 in) of precipitation

N= number of days in the averaging period

Road surface silt loading (sL)	0.015	g/m²
TSP (< 30 um)	3.23	g/VKT
PM10	0.62	g/VKT
PM2.5	0.15	g/VKT
Precipitation days (P) (> 0.254 mm)	132	days
Averaging period	365	days

Calculate Mean Weight of vehicle fleet (W)

	Weight	Total travelled distance
	(Tonne)	(VKT/day)
Passenger Cars and Trucks	3	436,943
Median Trucks	10	6,917
Heavy Trucks	20	44,037
Buses	25	1,578
Mean Weight of vehicle fleet (W) (tons)		5.2

Mean Weight of vehicle fleet (W) is calculated based on the assumed average vehicle weight and the daily VKT for each vehicle category.

(4) Annual emission rates are based on daily traffic volume AADT and the annual particulate emission factors which has the "wet" control applied.

Recommended value for limited access highways with AADT > 10,000, from the MTO Guide for Assessing and Mitigating Air Quality Impacts and Greenhouse Gas Emissions

Particle Size Multipliers. From Table 13.2.1.-1 of US EPA (2011) Emission Factor Documentation for AP-42 Section 13.2.1 – Paved Roads (Fifth Edition).

Obtained from Toronto Pearson Airport 2022 MET data