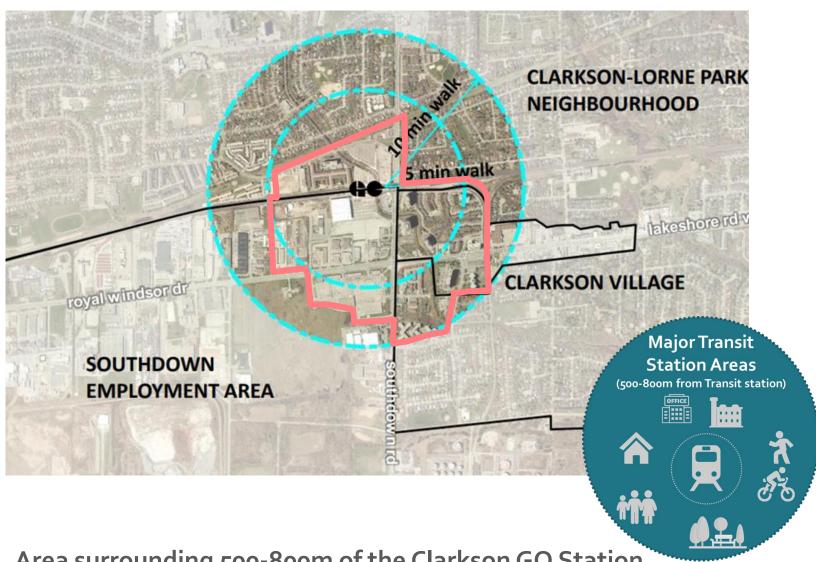


## Air Quality Study Findings, Community Feedback, and Next Steps Planning & Development Committee, May 29, 2023



In 2018, the City started the Clarkson **Transit Station** Area Study



Area surrounding 500-800m of the Clarkson GO Station

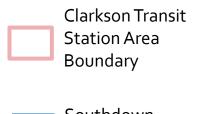
# Technical studies + Community Feedback =

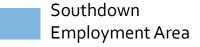
**Air Quality** 

MOPA 117, 2020

### Requirement of an updated Air Quality Study before planning for new residential growth in the Southdown Employment Area







#### A team of experts was set up by the City

The City of Mississauga
City Planning Strategies, Planning & Building Dept.

#### **Peer Reviewer**

Environmental
Expert:
Dillon
Consulting



#### **Expert Review Committee**

- Ministry of Environment, Conservation and Parks
- Region of Peel Public Health
- City of Mississauga, Environment Division
- Major Industries: CRH Cement Inc, PetroCanada and CertainTeed

# The City identified the requirements for an Air Quality Study to be completed

#### **Terms of Reference**

Land Use
Compatibility

Determine if additional residential uses are compatible with existing industries

Air Quality

Monitoring

Monitor air pollutants on-site for at least 6 months

Air Dispersion Modelling

Analyze combined impact of all pollution sources

Human Health

Assessment

Evaluate impacts and risk of increased pollution levels on human health

#### Air Quality Study 2020-2023

### A landowner completed an Air Quality Study as per the City's Terms of Reference





Landowner
(2077, 2087, 2097
and 2105 Royal
Windsor Drive)

#### Air Quality Monitoring

Monitor air pollutants on-site for at least 6 months

6

months of
Air Quality monitoring
(July 2020 to
January 2021)



Covid shutdown resulted in reduced pollution levels



Data adjustments
were made to
select pollutants
to account for
Covid

### Air Dispersion Modelling

Analyze combined impacts of all pollution sources

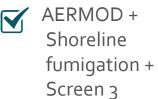


Air monitoring data combined with permitted industrial emissions and traffic data



Account for local weather and wind factors

MECP approved models



CALPUFF

#### Key findings of Air Quality Monitoring and Dispersion Modelling



Pollutants found above acceptable levels

(NOx, PM 2.5, PM 10, Acrolein, Benzene and Benzo(a)pyrene)



Transportation is primary source of elevated pollution levels



Similar levels of air quality have been noted across GTA

#### Human Health Assessment

Evaluate impacts and risk of increased pollution levels on human health



Air quality levels represent typical urban environment



Elevated pollutant levels typically found in urban areas across GTA



Frequency & source of elevated pollution levels do not prohibit residential development

# Community Meeting March 22, 2023

Air Quality Study Findings

> Direction to complete Master Plan

+ Next Steps

#### Are we heading in the right direction?



Residential and mix of uses near Clarkson GO



Well-connected public spaces



Protect and enhance natural features and parks



Vibrant, animated streets



Safe, reliable walking and cycling connections



High quality, Green buildings

# Community Meeting # 3 March 22, 2023

#### What we Heard!



Safe walking and cycling access to Clarkson GO





Green spaces



COVID Adjustments? What are acceptable pollution limits?



Poll: Majority Support for Guiding Principles



Residential & Industrial Compatibility

# PDC to Endorse: Next Steps on Clarkson Transit Station Area Study

# Summer 2023

#### **Draft Master Plan & Implementation Policies**

- land uses, built form, parks, roads, transportation analysis, stakeholder consultation

#### **Review of Development Application**

2077, 2087, 2097 and 2105 Royal Windsor Drive

Fall 2023 (targeted)

#### Community Meeting # 4

Draft Master Plan & Implementation Policies

Early 2024 (targeted)

#### **Implementation**

Official Plan Policies & Zoning as Necessary

### Questions?

