Steven Street Housing Co-op

Dust Management Plan

Project Location:
16 Steven Street, Hamilton, ON

Prepared for:
The Pearl (Not for Profit Housing Corp)
2-154 Bartlett Avenue, Toronto, ON

Prepared by:
MTE Consultants
1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8

January 21, 2022

MTE File No.: 47052-300

Engineers, Scientists, Surveyors.

Contents

Figures

1.0 Introduction

1.1 Background Information

MTE Consultants Inc. has been retained by The Pearl (Not for Profit Housing Corp) to complete a Dust Management Plan to supplement the site servicing design for a proposed 19-unit multiple dwelling development at 16 Steven Street, Hamilton (see Figure 1.1 for location plan). This report will outline a functional servicing strategy for the proposed development.

The site is located on a 0.06ha lot currently occupied by an industrial building on the east side of Steven Street and a residential building on the south side of King William Street. The site is bounded by Steven Street to the west, King William Street to the north and residential lands to the east. The proponent plans to construct a 19-unit multiple dwelling within the existing industrial building.

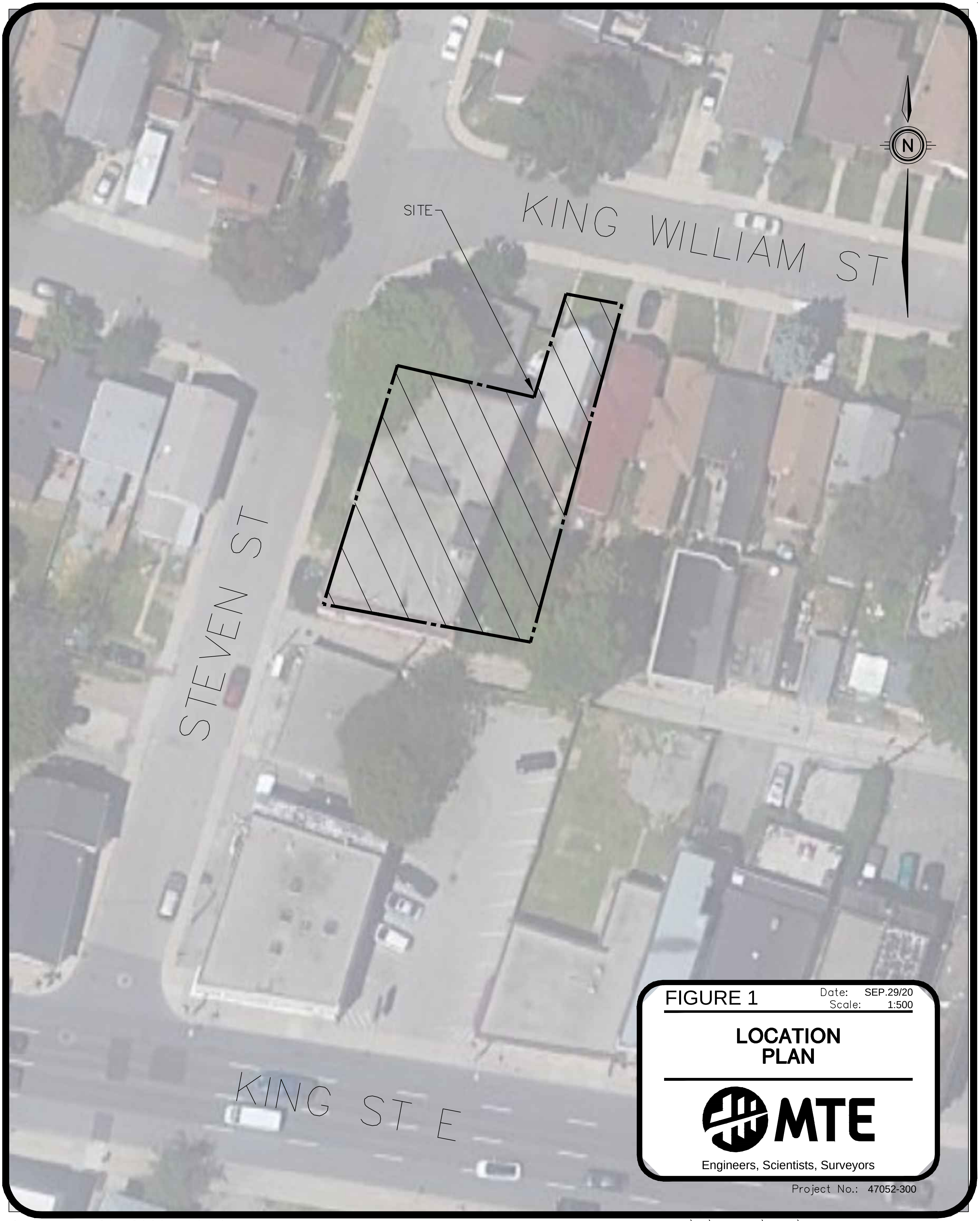

FIGURE 1

Date: SEP.29/20
Scale: 1:500

LOCATION PLAN

MTE

Engineers, Scientists, Surveyors

Project No.: 47052-300

September 29, 2020 — 9:10 a.m. — Plotted By: rcalogero

P:\P\47052\300\47052-300-F1.dwg

2.0 Potential Emission & Particulate Sources

The identified, potential sources of sediment and dust emissions generated from construction activities are as follows:

- Excavation and backfilling;
- Clearing and grubbing;
- Sediment and mud tracking from construction vehicles;
- High wind conditions on exposed surfaces.

3.0 Dust Management

The following points describe the proposed dust mitigation and control strategies during construction activities and post-construction.

3.1 Construction Dust Management

3.1.1 Construction Access & Haul Routes

- A construction mud mat will be installed for vehicles entering and exiting the site.
- Determine a haul route that will minimize distances travelled for delivery of construction materials.
- A maximum speed limit of 25 km/hour shall be used when traveling on established haul routes, and 10 km/hour when traveling on surfaces that have not be made a haul route.
- Secure loads on haul trucks to minimize fugitive emissions from the transportation. Partially or totally enclose the entire work surface area of the hauled bulk materials with an anchored tarp or plastic.

3.1.2 Erosion and Sediment Control

- All erosion and sediment control measures (silt sacks, silt fences, etc.) must be installed prior to commencement of construction.

3.1.3 Excavation

- Exposed lands which have been excavated for road construction and site services shall be sprinkled with water as required during dry and windy conditions.

3.1.4 Topsoil and Material Stockpiling

- Topsoil stock piles shall be temporarily seeded to prevent erosion. Placement of vegetation shall be in accordance with OPSS.572. Where required, erosion control blankets shall be placed as per OPSS.572, at the direction of the engineer.
- Inactive material stockpiles shall be covered with a plastic or fiber sheet (or approved equivalent) and will be anchored.

3.1.5 Dust Suppressant

- During dry and windy conditions, areas such as inactive topsoil & material stockpiles, roadways, and exposed earth surfaces shall be sprinkled with water at least three times/day or more frequently if required.
- In the event that excessive dust is generated onsite, the Contractor will identify the source and take immediate steps to reduce the dust generation to an acceptable level.

3.1.6 Municipal Roadway Cleaning

- The contractor shall be responsible for cleaning roadways and sidewalks of all sediments resulting from construction traffic from the site each day, at the end of the working day. Cleaning activities include scraping and sweeping to the satisfaction of the construction project manager. In a situation where large areas required sweeping, commercial sweepers shall be used.

3.1.7 Disturbed Areas

- All disturbed areas not scheduled for further construction within 45 days will be provided with suitable temporary mulch and seed cover within 7 days of the completion of that particular phase of construction.
- All disturbed external areas shall be reinstated with permanent cover (as detailed) within 7 days of the completion of that particular phase of construction.

3.1.8 Fabrication Controls

- When cutting roadways, pavements, concrete etc., a diamond bladed saw with water pumped through the system shall be used.
- Should grinding material be required, tools are to be fitted with dust bags where possible and materials should be pre-washed.
- A vacuum should be used to collect dust when cutting materials rather than sweeping.

3.2 Post-Development Dust Management

- Once the site has been constructed, the entire site boundary will consist of paved surfaces or vegetated landscaped areas. Therefore, no dust generation is expected.

4.0 Maintenance Plan

- All erosion and sediment control practices will be checked weekly and after all rainfall events. Any needed repairs will be completed immediately.
- Dust and sediment conditions will be monitored and logged throughout the construction period using the daily log book appended to this management plan.
- Sediment traps (e.g. silt sacks in existing catchbasins) will be inspected and cleaned after every rainfall event but no less frequent than every three weeks.
- Haul and access routes to be cleaned and maintained as needed.
- Site superintendent to be informed of any issues or complaints. Issues and complaints to be documented in writing describing time, date, wind levels, wind direction, and confirming if site is source of issue. A remedial action plan shall be put in place to respond and to remedy issues or complaints.

5.0 Contact Information

The Developer/Contractor contact responsible for implementation and monitoring of the Dust Mitigation Management Plan requirements is:

Brandon Gibson-Degroote
The Pearl (Not for Profit Housing Corp)
154 Bartlett Avenue, Apartment 2
Toronto, ON M6H3G1

Yours Truly,

MTE Consultants Inc.

Rosie Calogero, B.Eng.
Designer
905-639-2552 ext. 2425
rcalogero@mte85.com

Kayam Ramsewak, C.E.T., P.Eng.
Manager, Civil Engineering
Operational Director
905-639-2552 ext. 2421
kramsewak@mte85.com

RNC:krr

M:\47052\300\Reports\MTE Reports\47052-300 Dust Management Plan.docx