

Figure 7a: Proposed Configuration – Pedestrian Wind Comfort Conditions – Summer



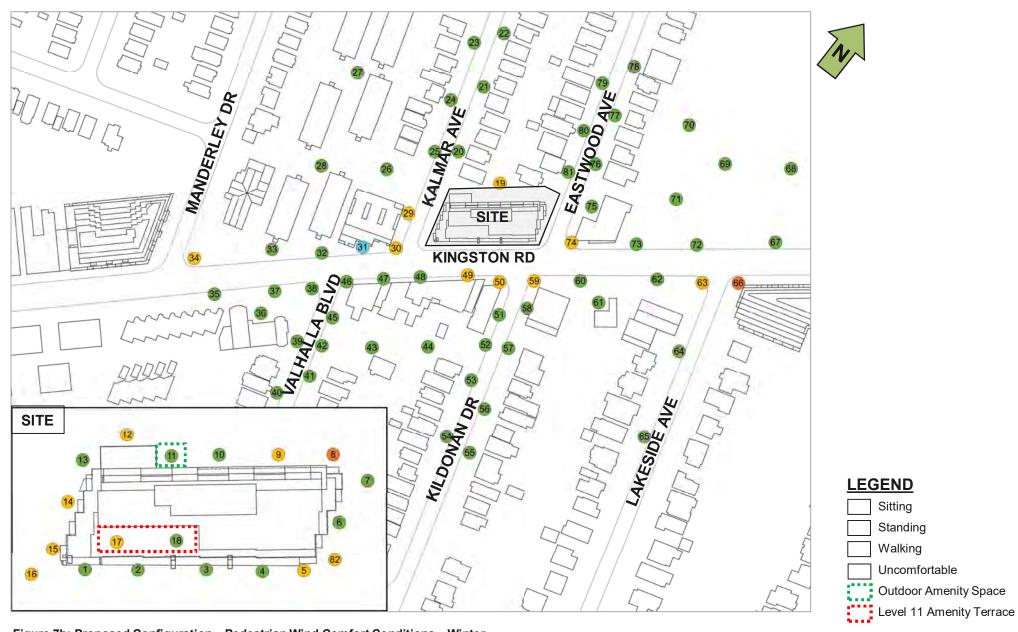


Figure 7b: Proposed Configuration - Pedestrian Wind Comfort Conditions - Winter



# 4.2 Outdoor Amenity Spaces (Locations 11, 17 & 18)

In the outdoor amenity space at grade (Location 11), wind conditions are suitable for sitting in the summer (Figure 7), and for standing in the winter (Figure 7b).

In the Level 11 amenity terrace (Locations 17 and 18), wind conditions are suitable for sitting or standing in the summer (Figure 7a). During the winter, wind conditions are conducive to standing or walking (Figure 7b). These wind conditions are considered appropriate for the intended use, as winter use will be infrequent.

### 4.3 Surrounding Sidewalks (Locations 19-81)

Existing wind conditions along the nearby sidewalks of Kingston Road, Eastwood Avenue, Kalmar Avenue, Lakeside Avenue, Kildonan Drive, and Valhalla Boulevard are generally comfortable for walking or better year-round (Figures 6a and 6b). The only exception is to the east along Kingston Road, at the intersection of Kingston Road and Lakeside Avenue (Location 66), where wind conditions are uncomfortable in the winter (Figure 6b). These uncomfortable wind conditions are due to the recently approved 1615 Kingston Road development. At the nearby transit stops (Locations 34, 50, and 74), wind conditions are comfortable for standing or sitting in the summer (Figure 6a), and for walking or standing in the winter (Figure 6b).

With the proposed development in place, wind conditions on the surrounding sidewalks generally remain suitable for walking or better throughout the year (Figures 7a and 7b). The uncomfortable wind conditions adjacent to the approved development at 1615 Kingston Road in the winter remain and are due to that development as they are an existing condition (Location 66 in Figure 7b). At the nearby transit stops, wind conditions continue to be suitable for standing or sitting in the summer (Figure 7a) and for walking or better in the winter (Figure 7b).

## 4.4 Wind Safety

In both the Existing Configuration and the Proposed Configuration, the wind safety criterion is met in all areas on-site and surrounding the site on an annual basis (Figures 8a and 8b).



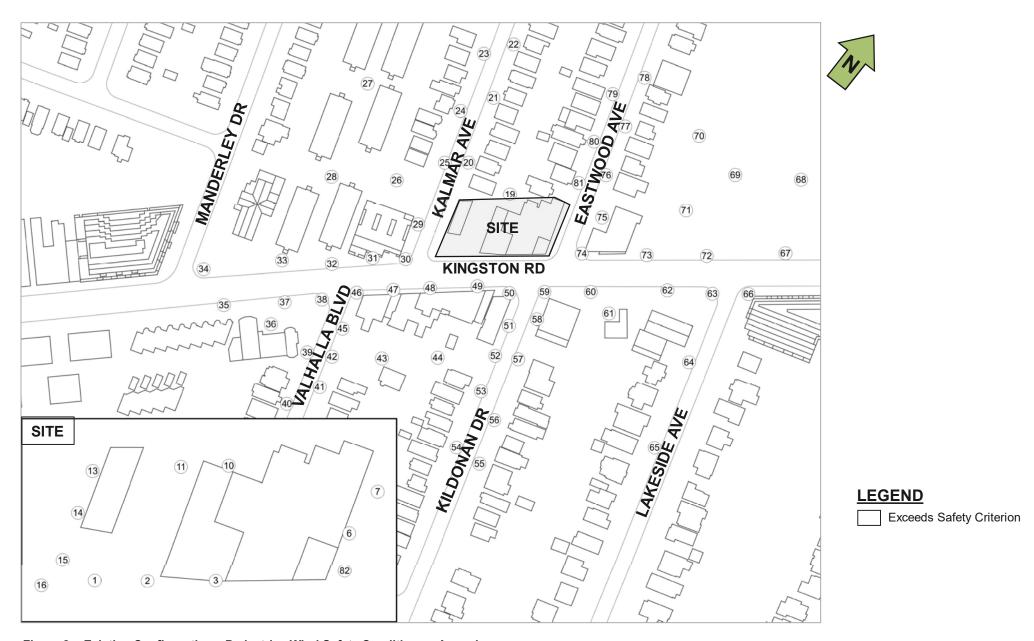


Figure 8a: Existing Configuration – Pedestrian Wind Safety Conditions – Annual



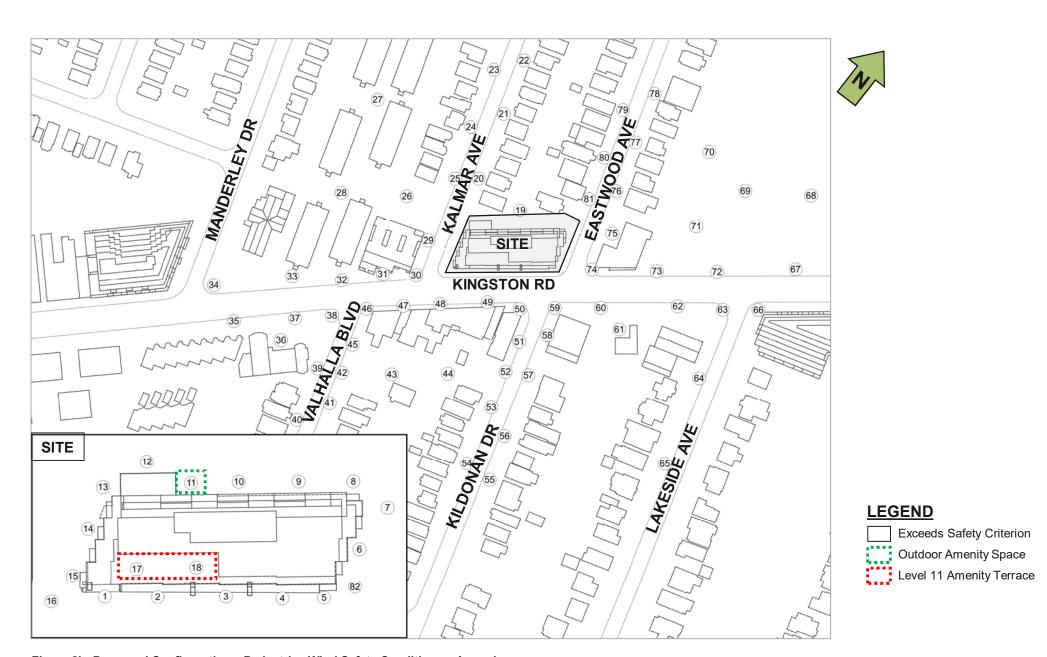


Figure 8b: Proposed Configuration – Pedestrian Wind Safety Conditions – Annual



#### 5.0 Conclusion & Recommendations

The pedestrian wind conditions predicted for the proposed development at 1552-1572 Kingston Road in Toronto have been assessed through quantitative wind tunnel modelling. Based on the results of the study, SLR has the following conclusions:

- The wind safety criterion is met in all areas assessed in both the Existing Configuration and the Proposed Configuration on an annual basis.
- Existing wind comfort conditions on-site and surroundings are generally comfortable for the intended use, including the nearby transit stops.
- With the proposed development in place, wind conditions on-site are generally suitable for the intended use, including the outdoor amenity spaces at grade and building entrances and exits. Recommendations are provided for the incorporation of a fence along the north edge of the property, wherein the details and efficacy can be confirmed during the SPA process.
- Wind conditions on the Level 11 amenity terrace are suitable for the intended use in the summer season.
- In the Proposed Configuration, on the nearby sidewalks and the nearby transit stops, wind conditions generally continue to be suitable for the intended use.
- As the proposed development pass the wind safety criteria, and there are minimal uncomfortable wind conditions on the site or in the vicinity, we opine it meets the City of Toronto's Terms of Reference. The uncomfortable wind conditions noted can be addressed through local wind mitigation measures during the design refinement phase of SPA.

#### 6.0 Statement of Limitations

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# **Appendix A**

Pedestrian Wind Comfort & Safety
Spring (March – May) & Autumn (September – November)





Figure A1a: Existing Configuration – Pedestrian Wind Comfort Conditions – Spring



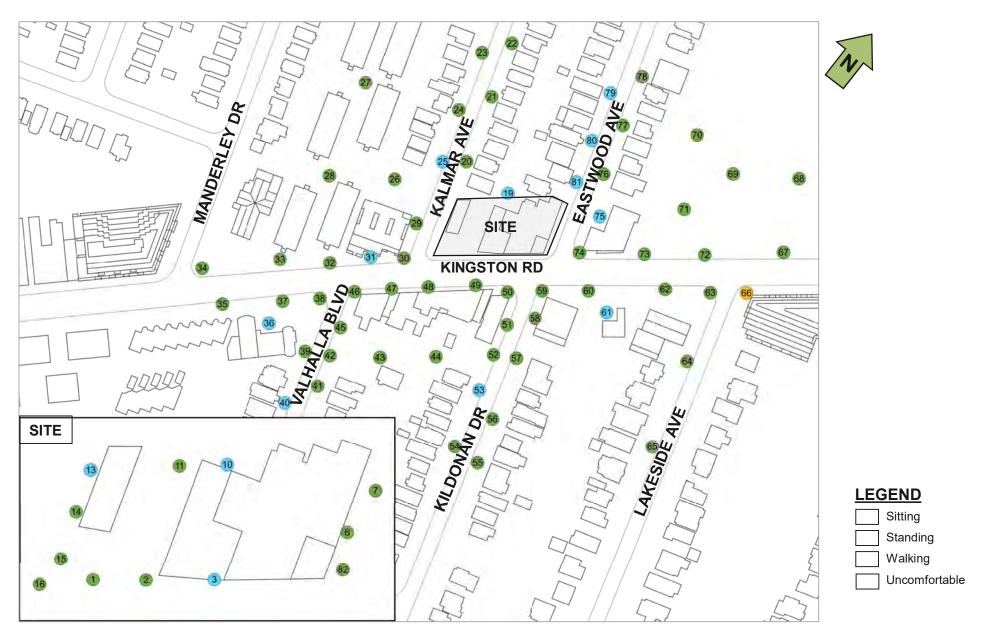


Figure A1b: Existing Configuration – Pedestrian Wind Comfort Conditions – Autumn





Figure A2a: Proposed Configuration – Pedestrian Wind Comfort Conditions – Spring



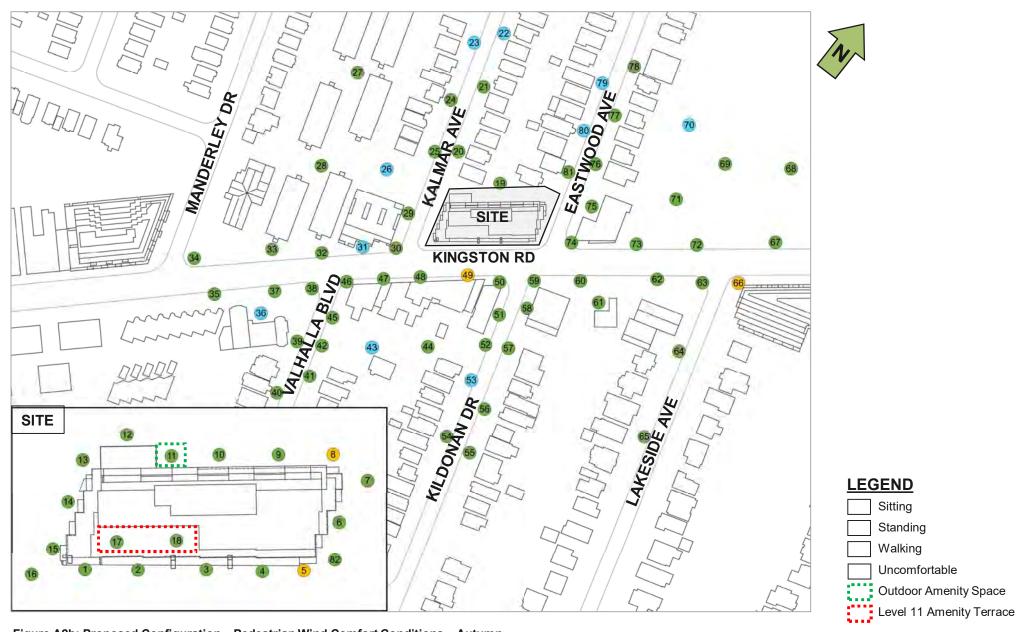


Figure A2b: Proposed Configuration – Pedestrian Wind Comfort Conditions – Autumn



# **Appendix B**

**Pedestrian Wind Comfort & Safety Tables** 



# Interpretation of Results

**Example Table 1** illustrates the wind comfort and safety criteria. The table provides the GEM (Gust Equivalent Mean) wind speed (in km/h) exceeded 20% of the time for comfort for each of the four seasons for each configuration. It also categorizes the wind speeds as either sitting, standing, walking or uncomfortable (see wind speed ranges in Example Table 2). In addition, the table provides the gust wind speed exceeded 0.1% of the time annually.

For instance, at Location 1 there is not data in the Existing Configuration, while in the Proposed Configuration, wind conditions are suitable for walking in the winter, spring and autumn seasons, while in the summer wind conditions are suitable for standing.

At Location 3, wind conditions are suitable for walking in the winter, spring and autumn seasons in the Existing Configuration, while in the summer wind conditions are conducive to sitting. In the Proposed Configuration, wind conditions are suitable for walking in the spring and autumn, standing in the summer, and uncomfortable in the winter. In addition, the safety criteria is exceeded on an annual basis at Location 3 in the Proposed Configuration.

**Example Table 1: Pedestrian Wind Conditions** 

			Wind Safety			
Location	Configuration	GEM S	Gust Speed Exceeded -0.1% of the Time (km/h)			
		Winter	Spring	Summer	Autumn	
1	Existing					
1	Proposed	19.3	18.3	15.0	16.1	71.7
2	Existing	12.5	11.3	6.8	11.7	71.4
2	Proposed	16.6	18.1	14.7	15.8	80.0
3	Existing	17.6	14.2	9.8	15.8	79.5
3	Proposed	20.9	15.7	10.3	18.6	95.6

**Example Table 2: Categories** 

Criteria	Speed
Sitting	≤ 10 km/h
Standing	≤ 15 km/h
Walking	≤ 20 km/h
Uncomfortable	> 20 km/h
Safety	> 90 km/h

Table B1-1: Pedestrian Wind Conditions



Location         Configuration         GEM Speed           Annual         Winter           1 Existing         11.1         12.           1 Proposed         11.4         13.           2 Existing         12.1         14.           2 Proposed         11.9         13.	3 12.7	8.8 8.9 9.3	Autumn 10.6 10.9	Gust Speed Exceeded 0.1% of the Time (km/h) 44.7 58.5
Annual         Winter           1 Existing         11.1         12.           1 Proposed         11.4         13.           2 Existing         12.1         14.	Spring           4         12.2           8         12.1           3         12.7	8.8 8.9 9.3	Autumn 10.6 10.9	(km/h) 44.7
1 Proposed 11.4 13. 2 Existing 12.1 14.	3 12.7	9.3	10.9	
2 Existing 12.1 14.	3 12.7	9.3		58.5
	5 12.9		11.5	55.4
		9.1	11.3	51.3
3 Existing 9.7 11.	1 10.3	7.8	9.4	44.2
3 Proposed 12.7 14.	2 14.2	9.5	12.0	56.6
4 Existing				
4 Proposed 12.3 13.	7 13.2	10.0	11.8	53.6
5 Existing				
5 Proposed 16.1 17.	5 17.3	13.6	15.7	69.0
6 Existing 11.0 11.	9 12.4	8.9	10.5	49.2
6 Proposed 11.2 12.	2 12.5	8.9	10.6	43.8
7 Existing 10.7 12.	0 11.7	8.6	10.2	44.2
7 Proposed 11.7 13.	12.8	9.4	10.9	55.5
8 Existing				
8 Proposed 17.3 21.	18.2	12.0	16.0	88.9
9 Existing				
9 Proposed 14.6 16.	2 16.2	11.1	13.8	61.4
10 Existing 7.7 8.7	8.5	6.1	7.4	36.3
10 Proposed 10.5 11.	8 11.3	8.5	10.2	46.6



			Wind Comfor			Wind Safety Gust Speed Exceeded
Location Configuration		GEM Speed Exc	eeded 20% of	the Time (km/	′h)	0.1% of the Time
	Annual	Winter	Spring	Summer	Autumn	(km/h)
11 Existing	10.4	12.1	11.1	8.2	10.0	45.3
11 Proposed	11.0	12.7	11.7	8.7	10.6	47.8
12 Existing						
12 Proposed	13.5	15.5	14.1	10.6	13.0	59.0
13 Existing	9.4	11.1	9.6	7.6	9.1	46.8
13 Proposed	13.0	14.8	13.6	10.7	12.4	54.4
14 Existing	11.1	13.1	11.7	8.9	10.6	51.4
14 Proposed	12.9	15.0	13.8	9.9	12.1	59.4
15 Existing	11.7	13.6	12.4	9.1	11.0	55.1
15 Proposed	13.7	16.2	14.4	10.6	12.9	65.3
16 Existing	11.3	12.7	12.1	9.1	10.7	47.5
16 Proposed	14.4	17.6	14.7	10.2	13.6	69.4
17 Existing						
17 Proposed	14.6	16.8	15.6	11.9	14.1	63.2
18 Existing						
18 Proposed	11.5	14.1	11.6	9.2	11.1	57.3
19 Existing	10.3	11.6	11.1	8.1	9.8	42.1
19 Proposed	13.3	15.1	14.5	10.0	12.4	58.8
20 Existing	11.5	13.9	12.0	8.6	10.9	57.8
20 Proposed	11.2	13.2	11.7	9.0	10.8	50.3

Table B1-3: Pedestrian Wind Conditions



			Wind Comfort	:		Wind Safety Gust Speed Exceeded
Location Configuration	-	GEM Speed Exc	0.1% of the Time			
	Annual	Winter	Spring	Summer	Autumn	(km/h)
21 Existing	12.2	14.9	12.4	9.2	11.7	58.4
21 Proposed	10.8	13.1	11.2	8.4	10.5	51.1
22 Existing	11.1	13.3	11.5	8.8	10.7	55.1
22 Proposed	10.2	12.3	10.6	7.9	9.8	49.1
23 Existing	11.7	13.4	12.6	9.1	11.0	50.4
23 Proposed	10.0	11.2	11.0	7.9	9.4	42.0
24 Existing	11.3	12.1	12.6	9.4	10.8	47.2
24 Proposed	12.0	12.7	13.6	9.6	11.4	52.8
25 Existing	10.3	11.5	11.2	8.2	9.9	43.1
25 Proposed	11.5	12.9	12.5	9.2	11.0	47.3
26 Existing	12.2	13.9	13.4	9.4	11.7	51.3
26 Proposed	9.6	11.2	10.2	7.5	9.2	41.5
27 Existing	12.6	14.2	13.7	10.0	12.1	50.8
27 Proposed	10.9	12.7	11.5	8.7	10.5	46.6
28 Existing	12.0	13.8	12.9	9.3	11.5	52.6
28 Proposed	11.3	13.2	12.0	8.8	10.8	48.8
29 Existing	11.3	11.6	13.1	9.3	10.5	48.2
29 Proposed	15.6	17.1	17.4	12.2	14.5	68.5
30 Existing	12.7	13.7	14.2	10.3	12.1	57.4
30 Proposed	14.7	17.2	15.6	11.2	13.9	56.4



				Wind Comfort	:		Wind Safety
Location	Configuration	l ,	Gust Speed Exceeded 0.1% of the Time				
		Annual	Winter	seeded 20% of the Spring	Summer	Autumn	(km/h)
31	Existing	10.0	11.0	11.1	7.9	9.4	41.3
	Proposed	9.0	9.9	9.7	7.3	8.6	38.1
32	Existing	11.9	13.4	12.9	9.3	11.3	50.6
32	Proposed	11.6	13.3	12.4	9.0	11.0	48.7
	Existing	11.0	12.8	11.5	8.9	10.7	48.9
33	Proposed	10.5	12.0	11.0	8.6	10.1	44.3
	Existing	14.2	16.8	14.3	11.9	13.9	64.4
34	Proposed	13.7	15.9	14.0	11.4	13.2	58.9
25	Fuiation -	10.8	12.7	11.2	8.4	10.4	48.3
	Existing Proposed	10.8	12.7	11.2	8.4 8.7	10.4	48.3 47.9
35	Proposed	11.1	12.9	11.9	0.7	10.7	47.9
36	Existing	8.9	10.0	9.8	6.6	8.3	37.4
	Proposed	9.3	10.4	10.4	7.2	8.8	39.0
	•						
37	Existing	11.1	13.0	12.0	8.3	10.6	49.9
37	Proposed	11.9	14.0	12.7	9.1	11.4	52.9
	Existing	10.6	13.1	10.9	7.9	10.2	52.3
38	Proposed	10.7	13.2	10.9	8.0	10.3	53.0
				20.00			
	Existing	10.7	12.0	11.7	8.4	10.0	45.5
39	Proposed	11.6	12.8	12.7	9.2	10.8	48.2
40	Existing	10.0	10.5	11.5	8.3	9.4	48.9
	Proposed	11.3	12.3	12.6	9.0	10.7	49.5
		11.0			5.0		.5.5



		Wind Safety Gust Speed Exceeded						
Location Configuration		GEM Speed Exceeded 20% of the Time (km/h)						
	Annual	Winter	Spring	Summer	Autumn	0.1% of the Time (km/h)		
41 Existing	11.2	13.5	11.5	9.0	10.8	51.4		
41 Proposed	11.9	13.9	12.5	9.4	11.3	51.5		
42 Existing	11.6	13.0	12.7	8.9	10.9	50.0		
42 Proposed	11.6	13.3	12.5	9.2	11.0	50.3		
43 Existing	12.6	14.6	13.6	9.4	12.0	56.7		
43 Proposed	10.0	12.0	10.7	7.3	9.5	47.5		
44 Existing	11.8	13.4	12.8	9.0	11.2	51.0		
44 Proposed	11.9	13.8	12.8	9.0	11.4	50.5		
45 Existing	12.4	14.5	13.3	9.3	11.7	59.1		
45 Proposed	11.1	13.0	12.0	8.5	10.5	53.3		
46 Existing	11.6	13.6	12.1	9.1	11.0	51.0		
46 Proposed	12.4	14.5	13.3	9.1	11.6	57.3		
47 Existing	12.8	14.9	13.6	9.8	12.1	58.4		
47 Proposed	11.3	13.4	12.0	8.4	10.7	52.8		
48 Existing	12.2	14.8	12.5	9.2	11.7	59.0		
48 Proposed	11.6	12.7	12.9	9.2	10.8	50.8		
49 Existing	13.1	15.7	13.7	9.7	12.5	61.7		
49 Proposed	16.2	19.3	17.1	11.7	15.1	79.9		
50 Existing	12.8	14.9	13.9	9.6	12.1	55.8		
50 Proposed	14.5	16.8	15.5	10.8	13.6	67.7		



			Wind Comfort			Wind Safety Gust Speed Exceeded
Location Configuration	-	GEM Speed Exc	ceeded 20% of	the Time (km/	'h)	0.1% of the Time
	Annual	Winter	Spring	Summer	Autumn	(km/h)
51 Existing	10.9	12.2	12.1	8.7	10.4	50.2
51 Proposed	10.8	11.9	12.0	8.4	10.2	47.2
52 Existing	12.5	14.3	13.6	9.4	11.9	52.6
52 Proposed	12.1	14.3	12.8	9.0	11.5	56.8
53 Existing	10.3	11.9	11.1	8.2	9.7	46.3
53 Proposed	10.2	11.4	11.2	7.9	9.7	43.8
54 Existing	11.8	13.0	13.2	9.2	11.0	53.2
54 Proposed	10.9	12.6	11.6	8.5	10.4	43.7
55 Existing	12.3	14.6	12.8	9.6	11.9	56.6
55 Proposed	11.8	14.4	11.9	9.1	11.3	57.3
56 Existing	12.3	14.7	12.9	9.4	11.7	56.0
56 Proposed	11.2	13.6	11.7	8.7	10.8	52.0
57 Existing	12.0	13.8	12.7	9.4	11.5	50.5
57 Proposed	12.0	13.2	13.3	9.3	11.4	49.4
58 Existing	10.7	12.4	11.4	8.6	10.2	48.9
58 Proposed	11.7	14.6	12.1	8.8	11.1	51.1
59 Existing	12.1	14.4	12.5	9.3	11.7	55.7
59 Proposed	14.7	16.9	15.8	10.9	13.9	61.0
60 Existing	12.2	14.3	12.9	9.3	11.6	54.7
60 Proposed	12.4	14.1	13.5	9.4	11.6	55.3

Table B1-7: Pedestrian Wind Conditions



			Wind Comfor	t		Wind Safety
Location Configura	ation	GEM Speed Exc	Gust Speed Exceeded 0.1% of the Time			
	Annual	Winter	Spring	Summer	Autumn	(km/h)
61 Existing	9.4	11.2	9.9	6.9	8.9	42.9
61 Proposed	11.5	13.4	12.2	8.4	10.8	52.7
62 Existing	12.6	15.0	13.1	10.0	12.3	56.4
62 Proposed	12.2	14.8	12.5	9.5	11.8	58.4
63 Existing	13.6	15.4	14.7	10.6	12.8	60.1
63 Proposed	14.0	15.8	14.8	11.2	13.3	60.0
64 Existing	14.3	16.7	15.3	10.8	13.4	57.5
64 Proposed	12.1	14.2	12.8	8.9	11.3	55.5
65 Existing	11.2	12.7	12.1	8.8	10.6	46.0
65 Proposed	10.7	12.1	11.7	8.3	10.1	42.9
66 Existing	17.6	20.3	18.3	14.3	16.8	78.3
66 Proposed	18.0	20.9	18.6	14.4	17.2	83.2
67 Existing	14.0	16.0	14.8	11.7	13.6	58.2
67 Proposed	13.2	14.6	14.2	11.0	12.7	53.2
68 Existing	13.0	15.2	13.7	10.3	12.4	55.9
68 Proposed	12.1	14.4	12.6	9.4	11.6	54.1
69 Existing	12.8	14.8	13.7	10.2	12.3	52.5
69 Proposed		14.6	14.0	10.3	12.3	50.6
70 Existing	11.1	12.2	12.5	9.0	10.5	46.2
70 Proposed	10.3	11.7	10.9	8.5	9.9	40.6



Coation   Configuration   GEM Speed Exceeded 20% of the Time (km/h)   Co.1% of the Time (km/h)   Co.				Wind Comfor	t		Wind Safety
Annual         Winter         Spring         Summer         Autumn         (km/h)           71 Existing         12.7         13.5         14.3         10.5         12.0         49.6           71 Proposed         12.5         13.4         14.0         10.2         11.7         48.4           72 Existing         13.6         14.8         15.1         11.0         12.9         53.0           72 Proposed         13.2         14.4         14.8         10.6         12.5         51.3           73 Existing         13.3         14.7         14.7         10.9         12.6         51.4           73 Proposed         13.1         14.4         14.2         10.8         12.4         51.0           74 Existing         12.5         15.1         13.0         9.3         11.9         61.3           74 Proposed         14.6         17.1         15.5         11.8         13.8         82.6           75 Existing         9.1         11.3         9.3         6.9         8.8         45.4           75 Proposed         10.8         12.4         11.4         8.7         10.3         47.5           76 Existing         11.2         12.8	Location Configuration		GEM Speed Exc	eeded 20% of	the Time (km/	'h)	Gust Speed Exceeded 0.1% of the Time
71 Proposed       12.5       13.4       14.0       10.2       11.7       48.4         72 Existing       13.6       14.8       15.1       11.0       12.9       53.0         72 Proposed       13.2       14.4       14.8       10.6       12.5       51.3         73 Existing       13.3       14.7       14.7       10.9       12.6       51.4         73 Proposed       13.1       14.4       14.2       10.8       12.4       51.0         74 Existing       12.5       15.1       13.0       9.3       11.9       61.3         74 Proposed       14.6       17.1       15.5       11.8       13.8       82.6         75 Existing       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7<			<u> </u>		-		
72 Existing       13.6       14.8       15.1       11.0       12.9       53.0         72 Proposed       13.2       14.4       14.8       10.6       12.5       51.3         73 Existing       13.3       14.7       14.7       10.9       12.6       51.4         73 Proposed       13.1       14.4       14.2       10.8       12.4       51.0         74 Existing       12.5       15.1       13.0       9.3       11.9       61.3         74 Proposed       14.6       17.1       15.5       11.8       13.8       82.6         75 Existing       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4 </td <td>71 Existing</td> <td>12.7</td> <td>13.5</td> <td>14.3</td> <td>10.5</td> <td>12.0</td> <td>49.6</td>	71 Existing	12.7	13.5	14.3	10.5	12.0	49.6
72 Proposed       13.2       14.4       14.8       10.6       12.5       51.3         73 Existing       13.3       14.7       14.7       10.9       12.6       51.4         73 Proposed       13.1       14.4       14.2       10.8       12.4       51.0         74 Existing       12.5       15.1       13.0       9.3       11.9       61.3         74 Proposed       14.6       17.1       15.5       11.8       13.8       82.6         75 Existing       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4       14.3       11.5       8.6       11.0       57.5	71 Proposed	12.5	13.4	14.0	10.2	11.7	48.4
73 Existing 13.3 14.7 14.7 10.9 12.6 51.4 73 Proposed 13.1 14.4 14.2 10.8 12.4 51.0 74 Existing 74 Proposed 14.6 17.1 15.5 11.8 13.8 82.6 75 Existing 9.1 11.3 9.3 6.9 8.8 45.4 75 Proposed 10.8 12.4 11.4 8.7 10.3 47.5 76 Existing 11.3 13.5 11.9 8.8 10.7 51.6 76 Proposed 11.2 12.8 11.8 9.3 10.7 47.8 77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5 78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	72 Existing	13.6	14.8	15.1	11.0	12.9	53.0
73 Proposed       13.1       14.4       14.2       10.8       12.4       51.0         74 Existing 74 Proposed       12.5       15.1       13.0       9.3       11.9       61.3         75 Existing 75 Proposed       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing 76 Proposed       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing 77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4       14.3       11.5       8.6       11.0       57.5	72 Proposed	13.2	14.4	14.8	10.6	12.5	51.3
74 Existing       12.5       15.1       13.0       9.3       11.9       61.3         74 Proposed       14.6       17.1       15.5       11.8       13.8       82.6         75 Existing       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4       14.3       11.5       8.6       11.0       57.5	73 Existing	13.3	14.7	14.7	10.9	12.6	51.4
74 Proposed       14.6       17.1       15.5       11.8       13.8       82.6         75 Existing       9.1       11.3       9.3       6.9       8.8       45.4         75 Proposed       10.8       12.4       11.4       8.7       10.3       47.5         76 Existing       11.3       13.5       11.9       8.8       10.7       51.6         76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4       14.3       11.5       8.6       11.0       57.5	73 Proposed	13.1	14.4	14.2	10.8	12.4	51.0
75 Existing 9.1 11.3 9.3 6.9 8.8 45.4 75 Proposed 10.8 12.4 11.4 8.7 10.3 47.5 76 Existing 11.3 13.5 11.9 8.8 10.7 51.6 76 Proposed 11.2 12.8 11.8 9.3 10.7 47.8 77 Existing 11.4 13.7 11.8 8.7 10.8 57.9 77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5 78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	74 Existing	12.5	15.1	13.0	9.3	11.9	61.3
75 Proposed 10.8 12.4 11.4 8.7 10.3 47.5  76 Existing 11.3 13.5 11.9 8.8 10.7 51.6 76 Proposed 11.2 12.8 11.8 9.3 10.7 47.8  77 Existing 11.4 13.7 11.8 8.7 10.8 57.9 77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5  78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	74 Proposed	14.6	17.1	15.5	11.8	13.8	82.6
76 Existing 11.3 13.5 11.9 8.8 10.7 51.6 76 Proposed 11.2 12.8 11.8 9.3 10.7 47.8 77 Existing 11.4 13.7 11.8 8.7 10.8 57.9 77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5 78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	75 Existing	9.1	11.3	9.3	6.9	8.8	45.4
76 Proposed       11.2       12.8       11.8       9.3       10.7       47.8         77 Existing       11.4       13.7       11.8       8.7       10.8       57.9         77 Proposed       10.7       12.8       11.1       8.1       10.1       51.5         78 Existing       11.4       14.3       11.5       8.6       11.0       57.5	75 Proposed	10.8	12.4	11.4	8.7	10.3	47.5
77 Existing 11.4 13.7 11.8 8.7 10.8 57.9 77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5 78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	76 Existing	11.3	13.5	11.9	8.8	10.7	51.6
77 Proposed 10.7 12.8 11.1 8.1 10.1 51.5  78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	76 Proposed	11.2	12.8	11.8	9.3	10.7	47.8
78 Existing 11.4 14.3 11.5 8.6 11.0 57.5	77 Existing	11.4	13.7	11.8	8.7	10.8	57.9
		10.7	12.8	11.1	8.1	10.1	51.5
78 Proposed 11.2 14.3 11.2 8.4 10.9 58.3	78 Existing	11.4	14.3	11.5	8.6	11.0	57.5
	_	11.2	14.3	11.2	8.4	10.9	58.3
79 Existing 10.5 11.3 11.8 8.3 9.9 43.2	79 Existing	10.5	11.3	11.8	8.3	9.9	43.2
79 Proposed 9.7 10.2 11.0 7.9 9.2 40.4							
80 Existing 10.3 11.0 11.5 8.4 9.7 42.5	80 Existing	10.3	11.0	11.5	8.4	9.7	
80 Proposed 10.2 10.7 11.5 8.4 9.6 44.2	80 Proposed	10.2	10.7	11.5	8.4	9.6	44.2

Table B1-9: Pedestrian Wind Conditions



Location Configuration		Wind Comfort  GEM Speed Exceeded 20% of the Time (km/h)					
	Annual	Winter	Spring	Summer	Autumn	0.1% of the Time (km/h)	
81 Existing	9.8	10.6	10.9	8.1	9.4	41.0	
81 Proposed	10.7	11.7	11.6	8.9	10.3	44.4	
82 Existing	11.6	12.4	13.3	9.2	10.9	52.9	
82 Proposed	14.2	15.4	15.1	12.4	13.6	55.7	
		·					