

# Dust Monitoring Summary Report

Toronto Transit Commission

Ashbridges Bay LFLRV Maintenance and Storage Facilities

Monitoring Period: 11 Aug - 17 Aug, 2011

## Dust (PM10) Monitoring Results

**PM10** : Particulate Matter, less than 10 micrometres in diameter.  
**µg/m<sup>3</sup>** : Micrograms per cubic metre;  
 a unit of measure for concentration in air.

Date	24 Hour Average, All Stations		Station(s) Where 24h Average >50 µg/m <sup>3</sup> *	Predominant Wind Direction	Comments
	Minimum (µg/m <sup>3</sup> )	Maximum (µg/m <sup>3</sup> )			
11-Aug-11	0	18	-	WSW	
12-Aug-11	3	67	Dust 6	ESE	Potential on-site sources.
13-Aug-11	17	38	-	NE	
14-Aug-11	11	33	-	NNE	
15-Aug-11	34	60	Dust 3, 5, 6, 7, 8	NW	Elevated upwind stations (Dust 6, 7, and 8) indicative of PM <sub>10</sub> influences from off-site sources as well as potential on-site sources.
16-Aug-11	3	31	-	WNW	
17-Aug-11	9	46	-	SE	

\* 50 µg/m<sup>3</sup> is the interim Ontario Ministry of the Environment Ambient Air Quality Criteria (AAQC).

Wind direction is reported by the direction from which it originates.

Data were collected from eight (8) dust monitoring stations equipped with TSI DustTrak DRX Aerosol Monitors that measure airborne fine particulate matter (PM10). The monitors are located along the perimeter of the excavation area for the purpose of monitoring on site dust levels during the excavation activities. Ellis-Don/SPL Beatty have provided this data under contract to TTC.

In cases where exceedances are measured, additional dust control measures are applied.

# Dust Monitoring Summary Report

Toronto Transit Commission

Ashbridges Bay LFLRV Maintenance and Storage Facilities

Monitoring Period: 18 Aug - 24 Aug, 2011

## Dust (PM10) Monitoring Results

**PM10** : Particulate Matter, less than 10 micrometres in diameter.  
**µg/m<sup>3</sup>** : Micrograms per cubic metre;  
 a unit of measure for concentration in air.

Date	24 Hour Average, All Stations		Station(s) Where 24h Average >50 µg/m <sup>3</sup> *	Predominant Wind Direction	Comments
	Minimum (µg/m <sup>3</sup> )	Maximum (µg/m <sup>3</sup> )			
18-Aug-11	28	100	Dust 3, 5, 6, 7, 8	S	Potential influences from both off-site and on-site sources.
19-Aug-11	18	107	Dust 3, 6, 7	ESE	Potential on-site sources.
20-Aug-11	28	43	-	SE	
21-Aug-11	6	16	-	WSW	
22-Aug-11	3	9	-	WSW	
23-Aug-11	11	63	Dust 6	SE	Potential on-site sources.
24-Aug-11	27	60	Dust 3	SSE	Potential on-site sources.

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