

# Dust Monitoring Summary Report

Toronto Transit Commission

Ashbridges Bay LFLRV Maintenance and Storage Facilities

Reporting Date: October 19, 2011

Monitoring Period: 20 Sep - 26 Sep, 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> )			
20-Sep-11	11	198	Dust 3, 4	WSW / SSE	Potential influences from both off-Site and on-Site sources, depending on wind direction.
21-Sep-11	27	82	Dust 2, 4, 8	NNE	Potential influences from both off-Site and on-Site sources. Elevated concentrations at upwind stations (Dust 2) indicative of PM10 from off-Site.
22-Sep-11	25	76	Dust 2, 8	SSE	Potential influences from both off-Site and on-Site sources, depending on wind direction.
23-Sep-11	7	55	Dust 7	NNE	Potential influences from both off-Site and on-Site sources.
24-Sep-11	19	83	Dust 2, 7	variable	Potential influences from both off-Site and on-Site sources, depending on wind direction.
25-Sep-11	14	79	Dust 7	NNE	Potential influences from both off-Site and on-Site sources.
26-Sep-11	8	43	-	NNE	

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

Ellis-Don/SPL Beatty has indicated that Dust #4 was out of calibration prior to Sept 28th, which may have resulted in 24 hour averages above 50 µg/m<sup>3</sup> at this location. Therefore DUST #4 data from Sept 22-28th have been removed from the data set.

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

Reporting Date: October 19, 2011

Monitoring Period: 27 Sep - 30 Sep, 2011

## Dust (PM10) Monitoring Results

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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> )			
27-Sep-11	15	46	-	NNE	
28-Sep-11	18	36	-	W / NE	
29-Sep-11	19	70	Dust 4, 6	SSE / SSW	Potential influences from both off-Site and on-Site sources.
30-Sep-11	3	43	-	SSE / NW	

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