





Air Quality Study Objective

Update emissions inventory, dispersion modeling and human health risk assessment to better quantify and assess the current and projected future air quality (2022 and 2032) associated with and around the airport

Previous studies

- 1990/1991
- 2003/2004
- 2010/2011 (minor internal updates)

Schedule

Phase 1

- Develop airport emissions inventories
- Basically complete

Phase I Results (Preliminary)

Contaminant	Total Emissions (tonnes/year)		
	2000 Actual	2010 Predicted	2011 Actual
NOx	2226	2846	1554.1
SOx	140	169	112.6
CO	6098	6761	2611.6
PM ₁₀	30	28	24.0
PM _{2.5}	N/A	N/A	22.6
VOC	609	589	206.9

Notes:

2000 Actual – emissions calculated based on actual 2000 activity levels at TPA (2003 report) 2010 Predicted – emissions calculated based on predicted 2010 activity (2003 report) 2011 Actual – emissions calculated based on actual 2011 activity levels at TPA (2014 report)

Schedule

Phase 2

- Off site emission inventory
- June 2014

Phase 3

- Emissions and Dispersion Modeling System and area modeling
- September 2014

Phase 4

- To be contracted
- Human Health Risk Assessment
- Year End
- Full report to CENAC in Winter 2014/2015

Schedule

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Air Quality Study Community/CENAC Sub-Committee

The objective of the Air Quality Study Community/CENAC Sub-Committee is to:

- Meet with the project team to review and understand project scope and findings
- To serve as a communicators about the study to their respective communities/constituencies
- Provide advice and expertise to the GTAA Air Quality Study to ensure that industry best practices are being met
- Provide an opportunity for the general community to receive information, ask question and engage in dialogue concerning scientific and technical concepts necessary for informed discussion

Committee Composition

The Sub-Committee includes:

- 3 CENAC Members
- Representatives from both the Toronto and Peel Boards of Health
- Representatives from both the Toronto and Peel Environment Offices
- Airline Representative
- Toronto Pearson Employee Community Representative
- Representatives from surrounding communities (Toronto, Mississauga & Brampton)
 - Responded to call for participation
 - Live within a 8 km radius of airport property
 - Are connected to their community and have networks to disseminate information and bring in feedback from their constituents.





