



## Hamilton Air Monitoring Network - PAH Report

### STN29547 - PAH - Pier 25, Hamilton

| PAH Parameter          | 06-Jan-15 | 18-Jan-15   | 30-Jan-15 | 11-Feb-15 | 23-Feb-15   | 07-Mar-15   | 19-Mar-15 | 31-Mar-15   | 12-Apr-15   | 24-Apr-15 | 06-May-15 | 18-May-15 | 30-May-15 | 11-Jun-15 | 23-Jun-15   | 05-Jul-15   |
|------------------------|-----------|-------------|-----------|-----------|-------------|-------------|-----------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|
| BENZO(A)ANTHRACENE     | 0.60      | 2.22        | 0.42      | 1.25      | 1.06        | 2.30        | 0.50      | 1.54        | 1.26        | 0.51      | 0.10      | 0.11      | 0.51      | 0.49      | 2.88        | 0.78        |
| CHRYSENE               | 0.95      | 2.89        | 1.09      | 1.77      | 1.66        | 2.47        | 0.83      | 2.14        | 1.75        | 0.87      | 0.16      | 0.16      | 0.71      | 0.62      | 2.63        | 1.14        |
| BENZO(B)FLUORANTHENE   | 0.90      | 2.55        | 1.05      | 1.52      | 1.72        | 2.72        | 0.88      | 2.74        | 1.95        | 1.14      | 0.18      | 0.16      | 0.99      | 1.05      | 3.21        | 1.78        |
| BENZO(K)FLUORANTHENE   | 0.57      | 1.96        | 0.60      | 1.02      | 1.21        | 2.13        | 0.65      | 2.16        | 1.54        | 0.68      | 0.14      | 0.11      | 0.75      | 0.79      | 2.66        | 1.25        |
| BENZO(A)PYRENE (B[a]P) | 0.66      | <b>2.22</b> | 0.45      | 1.10      | <b>1.14</b> | <b>3.09</b> | 0.52      | <b>1.68</b> | <b>1.57</b> | 0.70      | 0.15      | 0.14      | 0.78      | 0.85      | <b>3.65</b> | <b>1.51</b> |
| INDENO(123CD)PYRENE    | 0.57      | 1.69        | 0.58      | 1.01      | 1.21        | 2.44        | 0.56      | 1.93        | 1.14        | 0.62      | 0.16      | 0.11      | 0.65      | 0.62      | 2.64        | 1.16        |
| DIBENZO(A,H)ANTHRACENE | 0.12      | 0.33        | 0.07      | 0.16      | 0.20        | 0.34        | 0.12      | 0.35        | 0.25        | 0.13      | 0.06      | 0.06      | 0.11      | 0.15      | 0.68        | 0.29        |
| BENZO(GHI)PERYLENE     | 0.46      | 1.34        | 0.47      | 0.95      | 0.96        | 2.06        | 0.39      | 1.41        | 0.93        | 0.51      | 0.15      | 0.11      | 0.65      | 0.65      | 1.89        | 0.83        |

| PAH Parameter          | 17-Jul-15 | 29-Jul-15 | 10-Aug-15 | 22-Aug-15   | 03-Sep-15 | 15-Sep-15 | 27-Sep-15 | 09-Oct-15   | 21-Oct-15 | 02-Nov-15   | 14-Nov-15   | 26-Nov-15 | 08-Dec-15 | 20-Dec-15 |  |  |  |  |  | Ave  | Max  | Min  |
|------------------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------------|-----------|-------------|-------------|-----------|-----------|-----------|--|--|--|--|--|------|------|------|
| BENZO(A)ANTHRACENE     | 0.07      | 0.72      | 0.06      | 1.47        | 0.19      | 0.30      | 0.57      | 1.21        | 0.11      | 2.34        | 2.33        | 0.45      | 0.13      | 0.52      |  |  |  |  |  | 0.90 | 2.88 | 0.06 |
| CHRYSENE               | 0.11      | 0.82      | 0.10      | 1.52        | 0.25      | 0.39      | 0.57      | 1.48        | 0.18      | 3.38        | 2.13        | 0.49      | 0.25      | 0.70      |  |  |  |  |  | 1.14 | 3.38 | 0.10 |
| BENZO(B)FLUORANTHENE   | 0.10      | 1.22      | 0.08      | 2.15        | 0.38      | 0.47      | 0.54      | 2.28        | 0.22      | 4.15        | 3.13        | 0.72      | 0.28      | 1.00      |  |  |  |  |  | 1.38 | 4.15 | 0.08 |
| BENZO(K)FLUORANTHENE   | 0.07      | 0.93      | 0.07      | 1.68        | 0.26      | 0.36      | 0.44      | 1.69        | 0.17      | 3.38        | 2.57        | 0.65      | 0.21      | 0.63      |  |  |  |  |  | 1.05 | 3.38 | 0.07 |
| BENZO(A)PYRENE (B[a]P) | 0.07      | 1.08      | 0.07      | <b>2.08</b> | 0.25      | 0.32      | 0.40      | <b>1.82</b> | 0.23      | <b>2.37</b> | <b>2.48</b> | 0.62      | 0.15      | 0.59      |  |  |  |  |  | 1.09 | 3.65 | 0.07 |
| INDENO(123CD)PYRENE    | 0.07      | 0.95      | 0.07      | 1.65        | 0.25      | 0.26      | 0.18      | 1.92        | 0.11      | 2.42        | 2.16        | 0.47      | 0.22      | 0.51      |  |  |  |  |  | 0.94 | 2.64 | 0.07 |
| DIBENZO(A,H)ANTHRACENE | 0.00      | 0.20      | 0.03      | 0.56        | 0.07      | 0.08      | 0.06      | 0.32        | 0.00      | 0.55        | 0.38        | 0.09      | 0.15      | 0.15      |  |  |  |  |  | 0.20 | 0.68 | 0.00 |
| BENZO(GHI)PERYLENE     | 0.08      | 0.80      | 0.07      | 1.27        | 0.22      | 0.27      | 0.18      | 1.58        | 0.08      | 1.95        | 1.23        | 0.27      | 0.23      | 0.73      |  |  |  |  |  | 0.76 | 2.06 | 0.07 |

Measurement units : ng/m<sup>3</sup>  
 Minimum detection limit (MDL) : 0.1 ng/m<sup>3</sup>  
 Reported values < 0.1 ng/m<sup>3</sup> : Target compound meets identification criteria but is < MDL  
 Reported '0.00' values : Analyte not detected  
 B[a]P AAQC 24 Hour Objective : 1.10 ng/m<sup>3</sup>  
 B[a]P AAQC Annual arithmetic mean : 0.22 ng/m<sup>3</sup>  
 B[a]P O.Reg 419/05 URT 24 Hour Objective : 5.00 ng/m<sup>3</sup>

|                                |      |
|--------------------------------|------|
| Number of Valid Samples        | 30   |
| Number of Samples > B[a]P AAQC | 11   |
| Annual B[a]P Arithmetic Mean   | 1.09 |
| Number of Samples > B[a]P URT  | 0    |

**Note:** " --- " indicates invalid sample