

**GOBIERNO DE LA CIUDAD DE BUENOS AIRES**  
**MINISTERIO DE AMBIENTE Y ESPACIO PÚBLICO**  
**AGENCIA DE PROTECCIÓN AMBIENTAL**  
**DIRECCIÓN GENERAL DE CONTROL AMBIENTAL**  
**Gerencia Operativa de Determinaciones Ambientales y Laboratorio**  
**Subgerencia Operativa Monitoreo Atmosférico**

**Monitoreo Atmosférico Automático - Red de Estaciones EPA (\*)**  
**ÓXIDOS DE NITRÓGENO( PPB)**  
**ESTACIÓN PARQUE CENTENARIO**  
**DICIEMBRE 2018**

| DICIEMBRE 2018 | Promedio 24 Hs |           |           | PROMEDIO 8 HS |           |           |          |           |           |          |           |           | Promedio 1 Hora |           |           |          |           |           |
|----------------|----------------|-----------|-----------|---------------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------------|-----------|-----------|----------|-----------|-----------|
|                | NO (PPB)       | NO2 (PPB) | NOX (PPB) | 0 a 8         |           |           | 8 a 16   |           |           | 16 a 24  |           |           | Max             |           |           | Min      |           |           |
|                |                |           |           | NO (PPB)      | NO2 (PPB) | NOX (PPB) | NO (PPB) | NO2 (PPB) | NOX (PPB) | NO (PPB) | NO2 (PPB) | NOX (PPB) | NO (PPB)        | NO2 (PPB) | NOX (PPB) | NO (PPB) | NO2 (PPB) | NOX (PPB) |
| 1              | 5              | 6         | 10        | 3             | 5         | 7         | 6        | 5         | 11        | 5        | 7         | 12        | 10              | 10        | 20        | <0,5     | 3         | 3         |
| 2              | 5              | 8         | 13        | 4             | 6         | 9         | 4        | 4         | 8         | 9        | 14        | 22        | 21              | 23        | 42        | <0,5     | 6         | 6         |
| 3              | 18             | 15        | 34        | 9             | 13        | 21        | 21       | 14        | 34        | 26       | 20        | 46        | 41              | 26        | 65        | 2        | 9         | 12        |
| 4              | 8              | 12        | 20        | 5             | 11        | 15        | 14       | 14        | 27        | 6        | 11        | 17        | 25              | 19        | 38        | 1        | 7         | 10        |
| 5              | 8              | 11        | 19        | 6             | 10        | 16        | 12       | 12        | 24        | 7        | 12        | 19        | 22              | 16        | 34        | 1        | 4         | 5         |
| 6              | 7              | 10        | 16        | 4             | 6         | 10        | s/d      | s/d       | s/d       | 7        | 14        | 21        | 18              | 15        | 27        | 1        | 6         | 11        |
| 7              | 15             | 23        | 37        | 10            | 15        | 25        | 27       | 24        | 51        | 7        | 29        | 36        | 66              | 34        | 92        | <0,5     | 8         | 8         |
| 8              | 10             | 18        | 28        | 10            | 16        | 26        | 6        | 9         | 15        | 15       | 28        | 43        | 30              | 43        | 71        | <0,5     | 3         | 3         |
| 9              | 11             | 16        | 27        | 7             | 15        | 22        | 4        | 10        | 13        | 23       | 22        | 45        | 48              | 31        | 77        | 1        | 6         | 6         |
| 10             | 22             | 32        | 54        | 31            | 23        | 53        | 21       | 31        | 52        | 14       | 42        | 56        | 60              | 47        | 91        | <0,5     | 8         | 8         |
| 11             | 21             | 23        | 44        | 5             | 23        | 29        | 23       | 23        | 46        | 36       | 23        | 59        | 48              | 37        | 74        | 1        | 9         | 11        |
| 12             | 16             | 19        | 35        | 17            | 16        | 33        | 24       | 23        | 47        | 9        | 19        | 28        | 41              | 27        | 63        | 1        | 10        | 11        |
| 13             | 8              | 13        | 21        | 5             | 11        | 16        | 14       | 16        | 30        | 6        | 13        | 18        | 20              | 19        | 39        | 2        | 8         | 12        |
| 14             | 28             | 17        | 45        | 16            | 15        | 31        | 37       | 17        | 54        | 32       | 20        | 51        | 65              | 29        | 94        | 3        | 4         | 6         |
| 15             | 20             | 18        | 38        | 15            | 16        | 31        | 22       | 17        | 38        | 23       | 21        | 44        | 45              | 29        | 71        | 3        | 8         | 11        |
| 16             | 9              | 14        | 22        | 13            | 15        | 28        | 4        | 7         | 11        | 9        | 18        | 26        | 30              | 28        | 56        | 1        | 4         | 4         |
| 17             | 10             | 13        | 23        | 8             | 12        | 20        | 14       | 19        | 32        | 7        | 10        | 16        | 37              | 29        | 64        | 2        | 5         | 7         |
| 18             | 8              | 10        | 17        | 4             | 6         | 10        | 12       | 11        | 23        | 7        | 12        | 19        | 25              | 14        | 37        | 3        | 5         | 9         |
| 19             | 14             | 12        | 26        | 5             | 9         | 14        | 21       | 10        | 31        | 15       | 17        | 32        | 29              | 20        | 40        | 3        | 8         | 11        |
| 20             | 18             | 16        | 34        | 8             | 9         | 17        | 20       | 15        | 35        | 27       | 25        | 51        | 54              | 27        | 77        | 2        | 8         | 9         |
| 21             | 25             | 20        | 44        | 25            | 20        | 45        | 29       | 19        | 48        | 19       | 21        | 40        | 47              | 25        | 69        | 1        | 8         | 9         |
| 22             | 9              | 13        | 22        | 7             | 12        | 19        | 12       | 11        | 23        | 8        | 17        | 24        | 16              | 18        | 31        | 2        | 8         | 11        |
| 23             | 6              | 14        | 20        | 7             | 13        | 19        | 5        | 8         | 13        | 7        | 21        | 27        | 16              | 32        | 48        | 1        | 3         | 4         |
| 24             | 8              | 13        | 21        | 11            | 16        | 26        | 10       | 12        | 22        | 3        | 12        | 15        | 23              | 23        | 40        | 3        | 7         | 9         |
| 25             | 3              | 9         | 12        | 4             | 8         | 12        | 3        | 6         | 8         | 2        | 13        | 15        | 6               | 18        | 21        | 5        | 9         | 13        |
| 26             | 10             | 15        | 24        | 6             | 10        | 15        | 18       | 16        | 34        | 6        | 19        | 24        | 31              | 25        | 54        | 2        | 15        | 19        |
| 27             | 21             | 22        | 43        | 5             | 9         | 14        | 27       | 21        | 49        | 32       | 36        | 67        | 53              | 44        | 97        | 1        | 6         | 7         |
| 28             | 11             | 22        | 33        | 19            | 29        | 47        | 10       | 19        | 28        | 5        | 17        | 23        | 46              | 45        | 90        | <0,5     | 4         | 4         |
| 29             | 8              | 18        | 26        | 2             | 14        | 16        | 14       | 19        | 33        | 8        | 21        | 29        | 26              | 33        | 51        | <0,5     | 8         | 8         |
| 30             | 6              | 10        | 15        | 5             | 11        | 15        | 6        | 7         | 13        | 5        | 12        | 17        | 9               | 21        | 26        | 2        | 6         | 9         |
| 31             | 3              | 9         | 11        | 2             | 8         | 10        | 4        | 7         | 10        | 2        | 12        | 14        | 7               | 20        | 22        | 1        | 5         | 6         |

**PARAMETROS ESTADÍSTICOS**

| DICIEMBRE 2018    | Promedios de 24 hs |           |           | Promedios de 8 hs |           |           |               |           |           |               |           |           | Promedios de 1 hora |           |           |    |
|-------------------|--------------------|-----------|-----------|-------------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------------|-----------|-----------|----|
|                   | NO (PPB)           | NO2 (PPB) | NOX (PPB) | 00:00 a 08:00     |           |           | 08:00 a 16:00 |           |           | 16:00 a 24:00 |           |           | NO (PPB)            | NO2 (PPB) | NOX (PPB) |    |
|                   |                    |           |           | NO (PPB)          | NO2 (PPB) | NOX (PPB) | NO (PPB)      | NO2 (PPB) | NOX (PPB) | NO (PPB)      | NO2 (PPB) | NOX (PPB) |                     |           |           |    |
| Cantidad de Datos | 31                 | 31        | 31        | 31                | 31        | 31        | 30            | 30        | 30        | 31            | 31        | 31        | 737                 | 737       | 737       |    |
| Mínimo            | 3                  | 6         | 10        | 2                 | 5         | 7         | 3             | 4         | 8         | 2             | 7         | 12        | <0,5                | 2         | 4         |    |
| Percentiles       | 95                 | 23        | 23        | 45                | 22        | 23        | 46            | 28        | 24        | 52            | 32        | 32        | 58                  | 37        | 29        | 64 |
|                   | 98                 | 26        | 27        | 49                | 28        | 26        | 50            | 32        | 27        | 53            | 34        | 39        | 62                  | 47        | 38        | 76 |
| Máximo            | 28                 | 32        | 54        | 31                | 29        | 53        | 37            | 31        | 54        | 36            | 42        | 67        | 66                  | 47        | 97        |    |
| Media Aritmética  | 12                 | 15        | 27        | 9                 | 13        | 22        | 15            | 14        | 29        | 12            | 19        | 31        | 12                  | 15        | 27        |    |
| Desvío Estándar   | 7                  | 6         | 11        | 7                 | 6         | 11        | 9             | 7         | 15        | 10            | 8         | 15        | 12                  | 8         | 18        |    |
| Mediana           | 10                 | 14        | 24        | 7                 | 12        | 19        | 14            | 14        | 29        | 8             | 18        | 26        | 8                   | 13        | 22        |    |

PPB: Una parte en volumen de Óxido de Nitrógeno en mil millones de partes en volumen de Aire Ambiente

\* Datos recabados con Monitores automáticos en cumplimiento de Normas de la Environmental Protection Agency( EPA-EU)

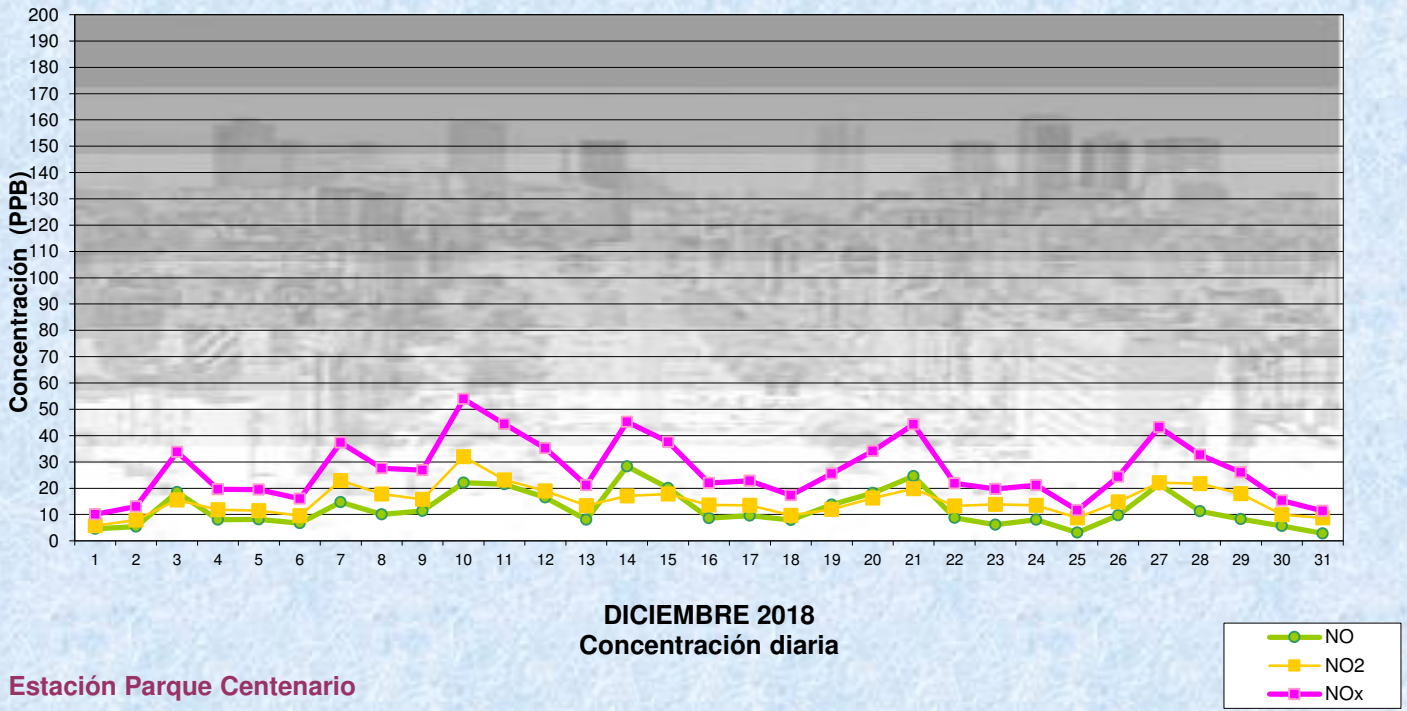
**Cantidad de períodos de 1 hora que excedieron la norma de Calidad de Aire (\*1)**

|                             |
|-----------------------------|
| Promedio 1<br>Hora NO2 (*1) |
| 0                           |

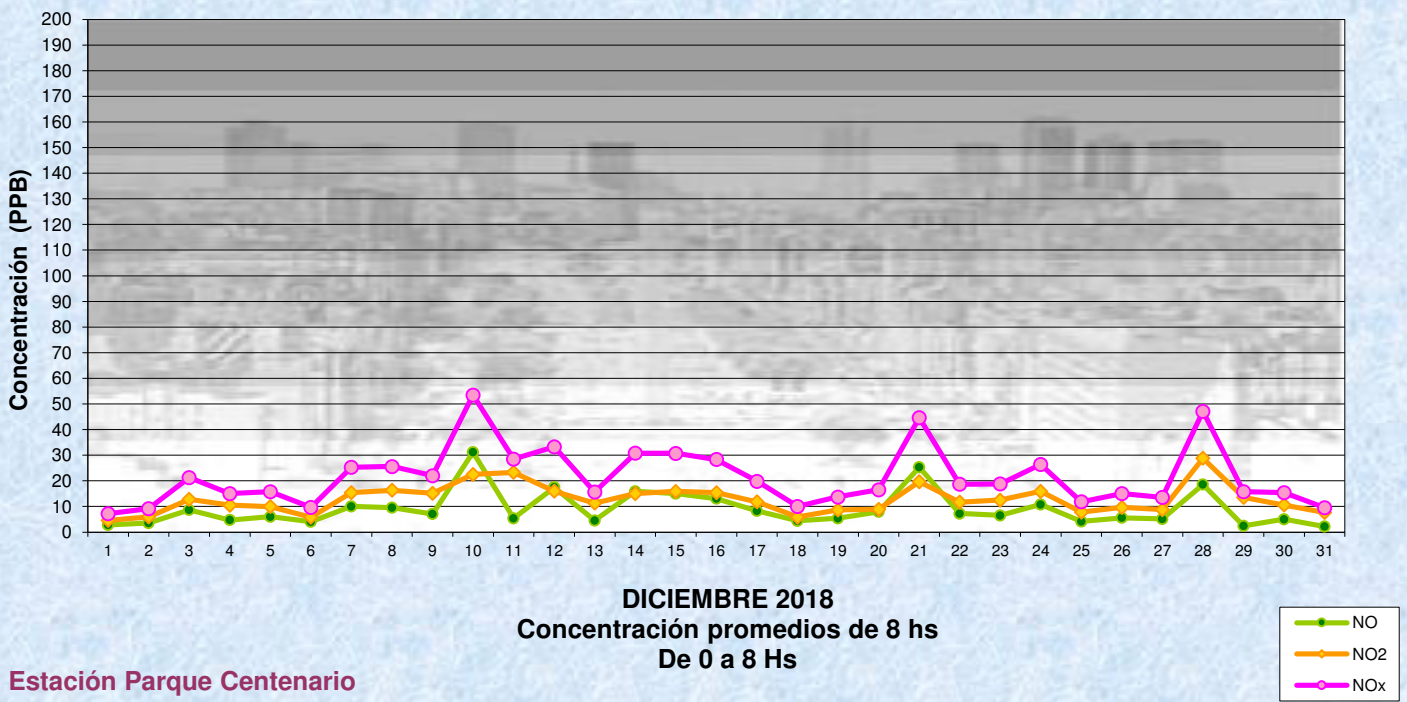
**Las excedencias se evalúan de acuerdo a los siguientes Límites Admisibles:**

(\*1)Estándar de Calidad de Aire para NO2 en 1 hora: 0,200 PPM (200 PPB) ( Dec. 198-06 Reglamentario de Ley 1356-GCBA)

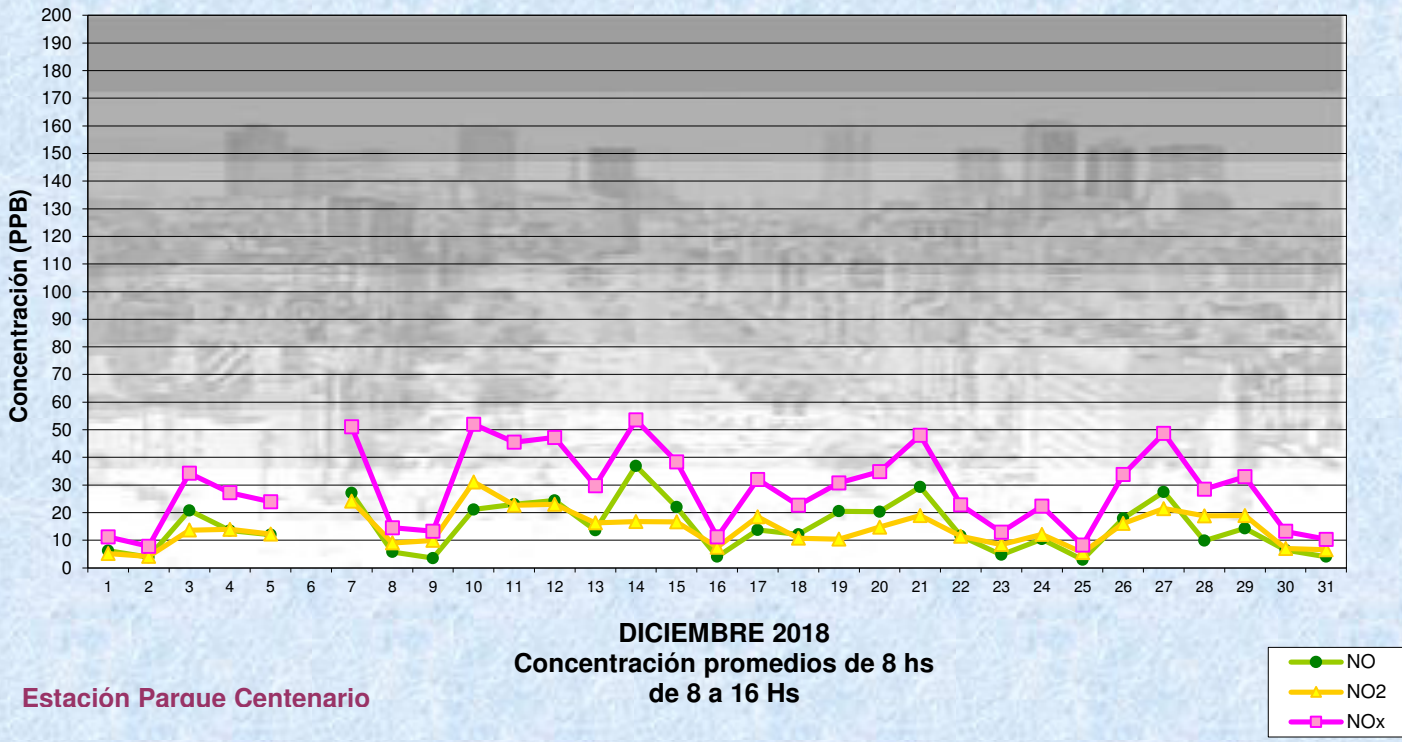
**Gobierno de la Ciudad de Buenos Aires**  
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**Dirección General de Control Ambiental**  
 Gerencia Operativa de Determinaciones Ambientales y Laboratorio  
**Monitoreo Atmosférico - Óxidos de Nitrógeno**



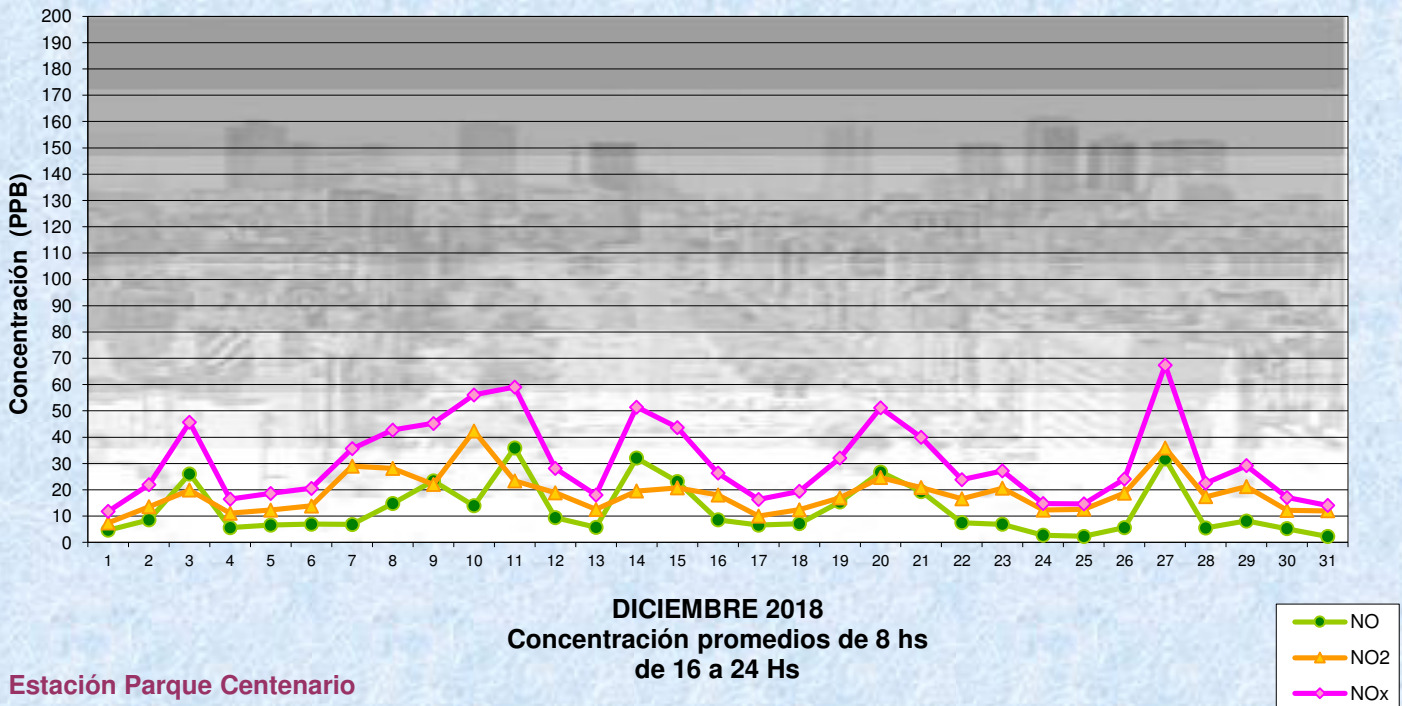
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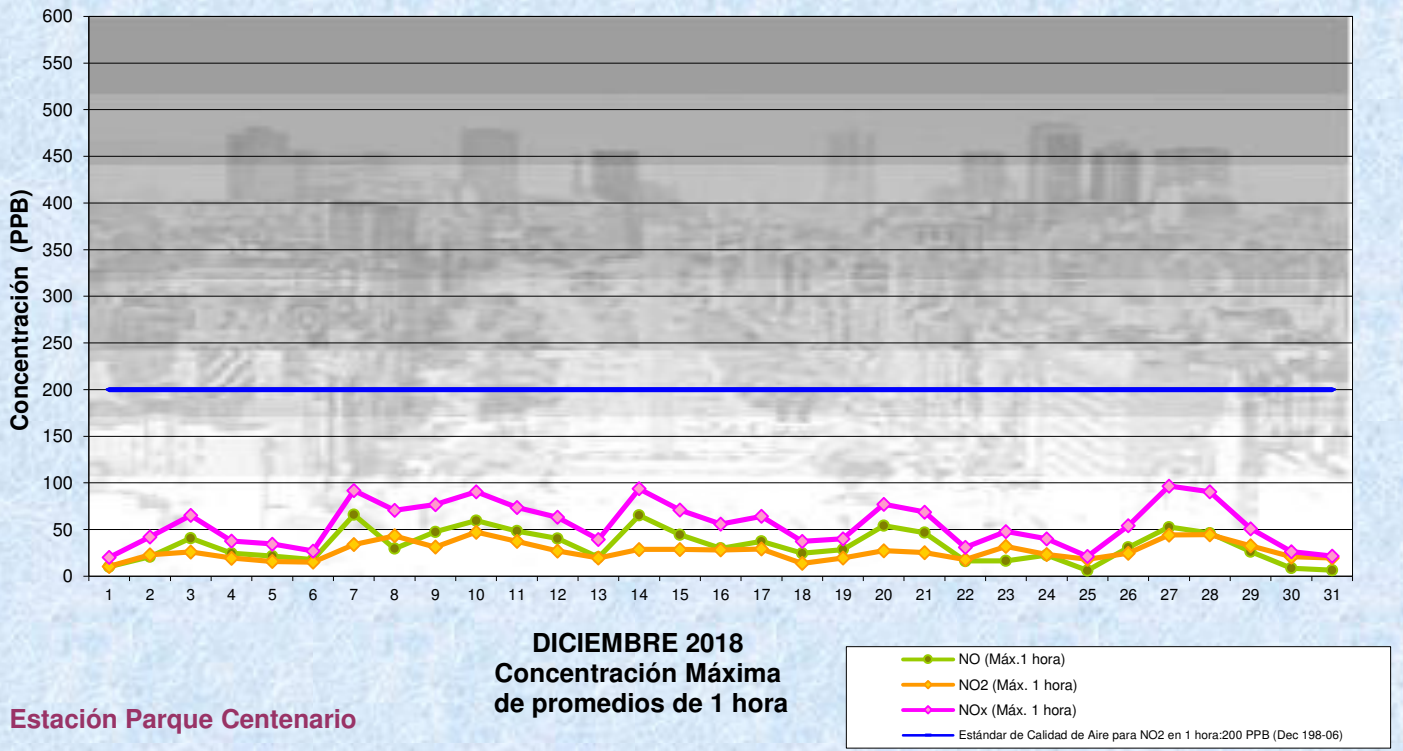
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**ÓXIDOS DE NITRÓGENO( PPB)**

**ESTACIÓN PARQUE CENTENARIO**

**DICIEMBRE 2018**

| HORARIO       |          |           |           |          |           |           |            |           |           |            |           |           |
|---------------|----------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|
| HORARIO       | Mensual  |           |           | Sábado   |           |           | Dom y Feri |           |           | Lun a Vier |           |           |
|               | NO (PPB) | NO2 (PPB) | NOx (PPB) | NO (PPB) | NO2 (PPB) | NOx (PPB) | NO (PPB)   | NO2 (PPB) | NOx (PPB) | NO (PPB)   | NO2 (PPB) | NOx (PPB) |
| 23:00 a 00:00 | 11       | 16        | 27        | 10       | 15        | 25        | 9          | 15        | 24        | 12         | 17        | 29        |
| 00:00 a 01:00 | 8        | 14        | 22        | 8        | 14        | 21        | 9          | 14        | 23        | 8          | 14        | 22        |
| 01:00 a 02:00 | 5        | 12        | 16        | 4        | 11        | 14        | 8          | 13        | 20        | 4          | 12        | 15        |
| 02:00 a 03:00 | 4        | 11        | 15        | 3        | 11        | 14        | 5          | 12        | 17        | 4          | 11        | 15        |
| 03:00 a 04:00 | 5        | 11        | 15        | 4        | 11        | 14        | 4          | 10        | 14        | 5          | 10        | 15        |
| 04:00 a 05:00 | 6        | 12        | 18        | 4        | 9         | 13        | 7          | 11        | 18        | 7          | 12        | 19        |
| 05:00 a 06:00 | 13       | 13        | 25        | 8        | 10        | 18        | 7          | 11        | 18        | 16         | 14        | 30        |
| 06:00 a 07:00 | 20       | 14        | 34        | 15       | 11        | 26        | 7          | 10        | 16        | 25         | 16        | 41        |
| 07:00 a 08:00 | 22       | 14        | 36        | 19       | 13        | 32        | 5          | 7         | 11        | 28         | 17        | 45        |
| 08:00 a 09:00 | 20       | 14        | 34        | 19       | 14        | 32        | 5          | 7         | 11        | 25         | 17        | 43        |
| 09:00 a 10:00 | 15       | 14        | 29        | 18       | 15        | 33        | 5          | 7         | 11        | 18         | 16        | 34        |
| 10:00 a 11:00 | 13       | 14        | 27        | 15       | 16        | 31        | 4          | 7         | 11        | 16         | 17        | 33        |
| 11:00 a 12:00 | 12       | 14        | 26        | 10       | 11        | 21        | 5          | 8         | 13        | 16         | 17        | 32        |
| 12:00 a 13:00 | 12       | 14        | 26        | 10       | 12        | 21        | 5          | 8         | 13        | 15         | 17        | 31        |
| 13:00 a 14:00 | 11       | 14        | 25        | 8        | 12        | 20        | 4          | 8         | 11        | 15         | 17        | 31        |
| 14:00 a 15:00 | 11       | 14        | 24        | 9        | 12        | 21        | 4          | 8         | 12        | 13         | 16        | 29        |
| 15:00 a 16:00 | 11       | 14        | 25        | 8        | 12        | 20        | 5          | 9         | 14        | 14         | 17        | 30        |
| 16:00 a 17:00 | 11       | 16        | 27        | 7        | 13        | 19        | 4          | 11        | 15        | 15         | 19        | 33        |
| 17:00 a 18:00 | 11       | 18        | 29        | 7        | 14        | 21        | 6          | 14        | 20        | 14         | 19        | 34        |
| 18:00 a 19:00 | 10       | 19        | 29        | 5        | 16        | 21        | 5          | 17        | 22        | 13         | 20        | 32        |
| 19:00 a 20:00 | 14       | 21        | 35        | 15       | 21        | 36        | 11         | 23        | 33        | 15         | 21        | 36        |
| 20:00 a 21:00 | 13       | 22        | 35        | 17       | 22        | 38        | 16         | 26        | 42        | 12         | 20        | 32        |
| 21:00 a 22:00 | 15       | 21        | 36        | 15       | 18        | 33        | 19         | 25        | 44        | 14         | 20        | 33        |
| 22:00 a 23:00 | 13       | 19        | 31        | 13       | 16        | 29        | 14         | 21        | 35        | 12         | 18        | 30        |

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**Monitoreo Atmosférico - Óxidos de Nitrógeno Totales**  
**Perfil Horario de Contaminación**

