



Clean Air Sarnia and Area - TSP and Metals Results

Station: Aamjiwnaag First Nation  
Data Updated: 12-May-23

Matrix: Glass fiber  
Method: Gravimetric/XRF

Sampler: Hi-Vol

| Parameter            | TSP                   |           | V                 |           | Cr                |           | Mn                |           | Fe                |           | Ni                |           | Cu                |           | Zn                |           | Cd                |           | Pb                |           |
|----------------------|-----------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
|                      | Suspended Particulate |           | Vanadium          |           | Chromium          |           | Manganese         |           | Iron              |           | Nickel            |           | Copper            |           | Zinc              |           | Cadmium           |           | Lead              |           |
|                      | Units                 |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           | µg/m <sup>3</sup> |           |
|                      | Concentration         | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag | Concentration     | Data Flag |
| 05-Jan-22            | <0                    | NDIF      |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |
| 11-Jan-22            | 31.4                  |           | <0.030            | NDIF      | <0.0020           | NDIF      | 0.0043            | NDIF      | 0.26              | NDIF      | <0.0010           | NDIF      | 0.0094            | NDIF      | <0.50             | NDIF      | <0.0050           | NDIF      | <0.0080           | NDIF      |
| 17-Jan-22            | 32.1                  |           | <0.030            |           | <0.0020           |           | 0.004             |           | 0.18              |           | <0.0010           |           | 0.012             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 23-Jan-22            | 5.4                   |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.092             |           | 0.0011            |           | 0.045             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 29-Jan-22            | 44                    |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.17              |           | 0.0012            |           | 0.076             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 04-Feb-22            | 13.3                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.065             |           | <0.0010           |           | 0.051             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 10-Feb-22            | 16.1                  |           | <0.030            |           | <0.0020           |           | 0.0041            |           | 0.16              |           | <0.0010           |           | 0.023             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 16-Feb-22            | 43.3                  |           | <0.030            |           | <0.0020           |           | 0.0046            |           | 0.37              |           | 0.0013            |           | 0.0088            |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 23-Feb-22            | 16.4                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.13              |           | <0.0010           |           | 0.059             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 28-Feb-22            | 17.3                  |           | <0.030            |           | <0.0020           |           | 0.0031            |           | 0.19              |           | <0.0010           |           | 0.047             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 06-Mar-22            | <0                    | NDIF      |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |
| 12-Mar-22            | 14.4                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.19              |           | 0.002             |           | 0.044             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 18-Mar-22            | 43.3                  |           | <0.030            |           | <0.0020           |           | 0.0057            |           | 0.19              |           | 0.0019            |           | 0.041             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 24-Mar-22            | 8.03                  |           | <0.030            |           | <0.0020           |           | 0.0037            |           | 0.15              |           | 0.0016            |           | 0.0092            |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 30-Mar-22            | 18                    |           | <0.030            |           | <0.0020           |           | 0.0047            |           | 0.26              |           | 0.0018            |           | 0.016             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 05-Apr-22            | 30.4                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.25              |           | 0.0022            |           | 0.071             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 11-Apr-22            | 43.7                  |           | <0.030            |           | <0.0020           |           | 0.01              |           | 0.46              |           | 0.0013            |           | 0.023             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 17-Apr-22            | 15.5                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.1               |           | 0.0013            |           | 0.06              |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 23-Apr-22            | 43.9                  |           | <0.030            |           | <0.0020           |           | 0.0051            |           | 0.39              |           | 0.0013            |           | 0.086             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 29-Apr-22            | 30.5                  |           | <0.030            |           | <0.0020           |           | 0.0052            |           | 0.51              |           | 0.0021            |           | 0.043             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 05-May-22            | 36.2                  |           | <0.030            |           | <0.0020           |           | 0.01              |           | 0.42              |           | <0.0010           |           | 0.038             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 11-May-22            | 97.2                  |           | <0.030            |           | <0.0020           |           | 0.028             |           | 1.5               |           | <0.0010           |           | 0.083             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 17-May-22            | <0                    | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 23-May-22            | <0                    | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 29-May-22            | <0                    | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 04-Jun-22            | 50.8                  |           | <0.030            |           | <0.0020           |           | 0.01              | UQC       | 0.5               |           | <0.0010           |           | 0.054             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 10-Jun-22            | 19                    |           | <0.030            |           | <0.0020           |           | 0.0071            | UQC       | 0.22              |           | <0.0010           |           | 0.037             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 16-Jun-22            | 63.8                  |           | <0.030            |           | <0.0020           |           | 0.038             | UQC       | 1.9               |           | 0.0011            |           | 0.026             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 22-Jun-22            |                       | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 28-Jun-22            |                       | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 04-Jul-22            |                       | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |                   | NDIF      |
| 16-Jul-22            | 2.64                  |           | <0.030            |           | <0.0020           |           | <0.0030           | UQC       | 0.075             |           | <0.0010           |           | 0.061             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 22-Jul-22            | 22.1                  |           | <0.030            |           | <0.0020           |           | 0.0061            | UQC       | 0.29              |           | 0.0012            |           | 0.053             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 28-Jul-22            | 29.4                  |           | <0.030            |           | <0.0020           |           | 0.012             | UQC       | 0.45              |           | 0.0011            |           | 0.046             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 03-Aug-22            | 26.7                  |           | <0.030            |           | <0.0020           |           | 0.0073            | UQC       | 0.32              |           | 0.0011            |           | 0.058             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 09-Aug-22            | 11.6                  |           | <0.030            |           | <0.0020           |           | <0.0030           | UQC       | 0.099             |           | <0.0010           |           | 0.032             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 15-Aug-22            | 16.9                  |           | <0.030            |           | <0.0020           |           | 0.0076            | UQC       | 0.36              |           | 0.0012            |           | 0.044             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 21-Aug-22            | 13.6                  |           | <0.030            |           | <0.0020           |           | <0.0030           | UQC       | 0.12              |           | <0.0010           |           | 0.068             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 27-Aug-22            | 20.7                  |           | <0.030            |           | <0.0020           |           | 0.0046            | UQC       | 0.21              |           | <0.0010           |           | 0.067             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 02-Sep-22            | 30.3                  |           | <0.030            |           | <0.0020           |           | 0.0075            | UQC       | 0.43              |           | <0.0010           |           | 0.058             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 08-Sep-22            | 29.1                  |           | <0.030            |           | <0.0020           |           | 0.0094            | UQC       | 0.47              |           | <0.0010           |           | 0.041             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 14-Sep-22            | 22                    |           | <0.030            |           | <0.0020           |           | 0.0075            | UQC       | 0.28              |           | <0.0010           |           | 0.058             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 20-Sep-22            | 25.3                  |           | <0.030            |           | <0.0020           |           | 0.0095            | UQC       | 0.4               |           | <0.0010           |           | 0.06              |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 26-Sep-22            | 5.58                  |           | <0.030            |           | <0.0020           |           | <0.0030           | UQC       | 0.098             |           | <0.0010           |           | 0.026             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 02-Oct-22            | 13.4                  |           | <0.030            |           | <0.0020           |           | 0.0053            |           | 0.16              |           | <0.0010           |           | 0.059             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 08-Oct-22            | 23.5                  |           | <0.030            |           | <0.0020           |           | 0.0087            |           | 0.36              |           | <0.0010           |           | 0.054             |           | <0.50             |           | <0.0050           |           | 0.012             |           |
| 14-Oct-22            | 83.2                  |           | <0.030            |           | <0.0020           |           | 0.047             |           | 0.97              |           | <0.0010           |           | 0.037             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 20-Oct-22            | 31.1                  |           | <0.030            |           | <0.0020           |           | 0.02              |           | 0.41              |           | <0.0010           |           | 0.099             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 26-Oct-22            | 20.7                  |           | <0.030            |           | <0.0020           |           | 0.0079            |           | 0.26              |           | <0.0010           |           | 0.039             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 01-Nov-22            | 54.1                  |           | <0.030            |           | <0.0020           |           | 0.0058            |           | 0.49              |           | <0.0010           |           | 0.087             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 07-Nov-22            | 33.8                  |           | <0.030            |           | <0.0020           |           | 0.016             |           | 0.47              |           | <0.0010           |           | 0.038             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 13-Nov-22            | 11.1                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.087             |           | <0.0010           |           | 0.055             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 19-Nov-22            | 17                    |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.19              |           | <0.0010           |           | 0.0021            |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 25-Nov-22            | 13.2                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.12              |           | <0.0010           |           | 0.014             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 01-Dec-22            | 13.6                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.18              |           | 0.0012            |           | <0.0020           |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 07-Dec-22            | 16.4                  |           | <0.030            |           | <0.0020           |           | 0.0046            |           | 0.21              |           | 0.0023            |           | 0.013             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 13-Dec-22            | 21.6                  |           | <0.030            |           | <0.0020           |           | 0.0065            |           | 0.32              |           | 0.0016            |           | 0.021             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 19-Dec-22            | 6.07                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.069             |           | <0.0010           |           | 0.011             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 25-Dec-22            | 9.14                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.084             |           | 0.0011            |           | 0.0028            |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 31-Dec-22            | 13.1                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.092             |           | 0.0021            |           | 0.012             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| No. of valid samples | 52                    |           | 52                |           | 52                |           | 52                |           | 52                |           | 52                |           | 52                |           | 52                |           | 52                |           | 52                |           |
| Maximum              | 97.2                  |           | <0.030            |           | 0                 |           | 0.047             |           | 1.9               |           | 0.0023            |           | 0.099             |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| Minimum              | 2.64                  |           | <0.030            |           | <0.0020           |           | <0.0030           |           | 0.065             |           | <0.0010           |           | 0.0021            |           | <0.50             |           | <0.0050           |           | <0.0080           |           |
| 24-hour AAQC         | 120                   |           | 2                 |           | 0.5               |           | 0.4               |           | 4                 |           | 0.2               |           | 50                |           | 120               |           | 0.025             |           | 0.5               |           |
| No. > AAQC           | 0                     |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           | 0                 |           |

<NW No measurable response [zero]: <reported value  
 NVA Not yet available  
 <T A measurable trace amount; interpret with caution  
 NDIF No data: invalid filter  
 NDMT No data: sample missing in transit  
 NS No sample  
 UTF Unreliable: torn filter  
 UQC Unreliable: Possible QC problem  
 TF Torn filter  
 PPL Possible particulate loss  
 PFC Possible filter contamination  
 <[concentration] Below specified detection limit