

COMMUNITY ADVISORY GROUP (CAG)

Air Quality Monthly Updates

June 2021 – December 2021

AIR QUALITY SUMMARY

- June 2021 | CAG MTG #12, August 5, 2021
 - July 2021 | CAG MTG #13, September 14, 2021
 - August 2021 | CAG MTG #14, October 19, 2021
 - September 2021 | CAG MTG #16, December 2, 2021
 - October 2021 | CAG MTG #16, December 2, 2021
 - November 2021 | CAG MTG #17, January 4, 2022
 - December 2021 | CAG MTG #18, February 24, 2022
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- Air quality updates started at the August CAG Mtg #12. Full Air Quality reporting for January 2021 – December 2021 can be found on the ESCR website here: <https://www1.nyc.gov/site/escr/project-updates/environmental-monitoring.page>

AQM | JUNE UPDATE

- **Work activities at Asser Levy Playground, E23rd Street and Soar One focused on pile installation.**
- **Increased levels of Particulate Matter occurred on (3) occasions:**
 - PM levels surpassed the PEL for 15-min TWA for PM 2.5 at Asser Levy location on Saturday, 6/5/21, outside of work hours
 - PM levels remained under the PEL for 15-min TWA for PM 10 at Asser Levy location.
 - PM levels surpassed the PEL for 15-min TWA for PM 2.5 at Solar One location on Friday 6/4/21 after work hours and Tuesday, 6/8/21, for a 15-min period. PCC implemented dust control using misting.
 - PM levels remained under the PEL for 15-min TWA for PM 10 at the Solar One location.
 - PM daily value (24-hour TWA) remained under PEL for this month.

AQM | NOVEMBER UPDATE

Work activities at Asser Levy Playground, E23rd Street and Stuyvesant Cove Park focused on pile installation and floodwall foundation construction.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of November.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on two occasions:

- **ALP Monitors: November 9 and 18:** duration of 15 minutes on both days. These readings coincided with lunchtime and the end of shift and thus no construction activities were taking place in this area. As there were parked vehicles near the monitor, it was concluded that the readings are a result of vehicle exhaust fume from idling vehicles and not due to construction.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

AQM | JULY UPDATE

Work activities at Asser Levy Playground, E23rd Street and Solar One focused on pile installation and floodwall foundation construction. No evening/night work this month.

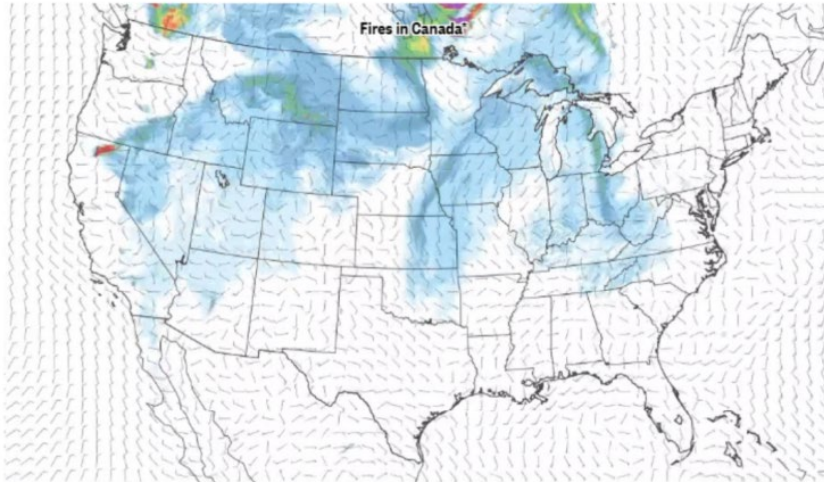
- Due to the wildfires out west, air quality levels surpassed normal levels across the country for the month of July. (see maps in following slides)
- Increased levels of Particulate Matter occurred on several occasions:
 - **July 4 and 5:** Surpassed the PEL for 15-min time weighted average. No construction activities on the 4th or 5th due to observance of July 4th holiday. High levels were measured throughout the City.
 - **July 7-28:** Surpassed the PEL for 15-min time weighted average. Due to the wildfires out west, air quality levels surpassed normal levels across the country for the month of July. (slide 13)
 - **July 20-21:** Surpassed the PEL for 24-hour time weighted average. Due to the wildfires out west, air quality levels surpassed normal levels across the country for the month of July. (slide 13)
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

AQM | JULY UPDATE

Data for smoke density measured across the USA due to wildfires in North America.



▶ || July 4



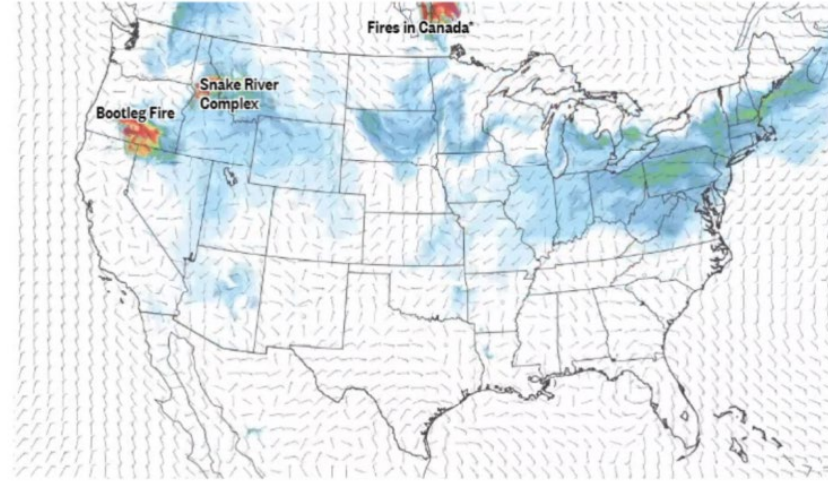
* Fires in Ontario, Canada are assigned codes, not names.

Sources: [National Oceanic and Atmospheric Administration](#) and IncoWeb

Data for smoke density measured across the USA due to wildfires in North America.



▶ || July 7



* Fires in Ontario, Canada are assigned codes, not names.

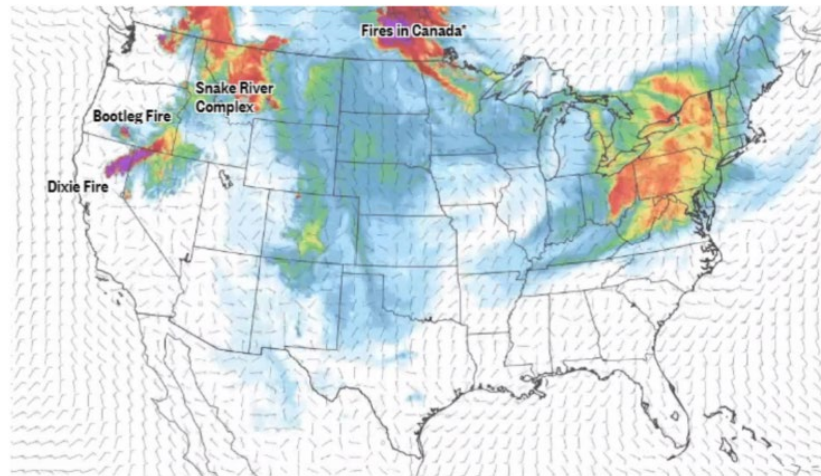
Sources: [National Oceanic and Atmospheric Administration](#) and IncoWeb

AQM | JULY UPDATE

Data for smoke density measured across the USA due to wildfires in North America.



▶ || July 20

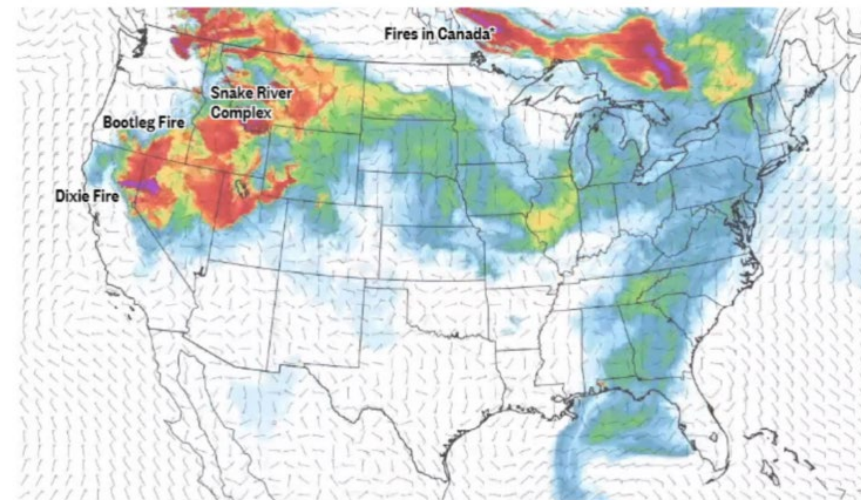


* Fires in Ontario, Canada are assigned codes, not names.
Sources: [National Oceanic and Atmospheric Administration](#) and IncoWeb

Data for smoke density measured across the USA due to wildfires in North America.



▶ || July 26



* Fires in Ontario, Canada are assigned codes, not names.
Sources: [National Oceanic and Atmospheric Administration](#) and IncoWeb

AQM | AUGUST UPDATE

Work activities at Asser Levy Playground, E23rd Street and Solar One focused on pile installation and floodwall foundation construction.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of August.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on several occasions:

- **August 6 and 25:** over durations of under 10 minutes.
- **August 9, 10, 13 and 16:** over durations of 15-20 minutes. Dust control measures were implemented.
- **August 17 and 27:** over durations of 30 and 10 minutes, however, were outside of construction hours and were determined to be not related to PCC activities.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

AQM | SEPTEMBER UPDATE

Work activities at Asser Levy Playground, E23rd Street and Solar One focused on pile installation and floodwall foundation construction.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of August.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on several occasions:

- **ALP Monitors: September 1, 16, 20 and 23:** durations were between 15 minutes and 51 minutes due to the proximity of the excavator machine to the air monitor.
- **SO Monitors: September 20, 21 and 22:** durations were between 2 minutes and 40 minutes. When the downwind monitor was determined, it was below the action and PEL limits, which shows that particulates did not migrate out of the immediate construction area.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

AQM | OCTOBER UPDATE

Work activities at Asser Levy Playground, E23rd Street and Solar One focused on pile installation and floodwall foundation construction. SO-S3 monitor was relocated further south to capture work around E 20th Street.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of October.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on several occasions:

- **ALP Monitors: October 15:** duration of 15 minutes. No construction activities were taking place in this area, at this time.
- **SO Monitors: October 4 and 21 :** durations were between 27 minutes and 12 minutes. First occurrence started before construction activities began and was likely attributed to an idling construction vehicle. Second occurrence was brief and wind speeds were low, which shows that particulates did not migrate out of the immediate construction area.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

AQM | NOVEMBER UPDATE

Work activities at Asser Levy Playground, E23rd Street and Stuyvesant Cove Park focused on pile installation and floodwall foundation construction.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of November.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on two occasions:

- **ALP Monitors: November 9 and 18:** duration of 15 minutes on both days. These readings coincided with lunchtime and the end of shift and thus no construction activities were taking place in this area. As there were parked vehicles near the monitor, it was concluded that the readings are a result of vehicle exhaust fume from idling vehicles and not due to construction.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.

PA2 AQM | DECEMBER UPDATE

Work activities at E23rd Street and Stuyvesant Cove Park focused on pile installation and floodwall foundation construction. At Asser Levy Playground, work focused on park restoration.

The PM daily value (24-hour TWA) did not surpass the PEL for the month of December.

Levels of Particulate Matter surpassed the PEL for 15-min TWA on several occasions:

- **ALP Monitors: December 10, 25, 29, 30 and 31:** elevated PM2.5 readings on December 25-31 were recorded when no construction activity was occurring, either after hours, on the weekend, or during an observed holiday. On December 10, the high readings were recorded during morning rush, when a number of material deliveries were lining up to enter the site. On no occasion did the Net PM surpass the PEL.
- **SO Monitors: December 10:** PM2.5 levels slightly surpassed the PEL for a duration of 18 minutes. The Net PM did not surpass the PEL.
- Construction activity was closely monitored, and dust mitigation techniques were continuously implemented to contain airborne particles due to construction activities.