NYC 9/11 Public Portal Document

U.S. Environmental Protection Agency (*www.epa.gov*)
Sampling Situation Report
Monday, January 21, 2002

Fixed Ambient Air Sampling Locations (Asbestos)

- NYC / ER (Jan 14, 1200 - 2359 hrs)
  - All 21 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location S) was not collected due to an equipment malfunction.
  - **Note**: Location T will no longer be sampled on weekend days due to the unavailability of access.
- NYC / ER (Jan 15, 0001 - 1200 hrs)
  - All 22 samples analyzed were below the TEM AHERA standard.
- NYC / ER (Jan 15, 1200 - 2359 hrs)
  - All 21 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location F) was not collected due to an equipment malfunction.
- NYC / ER (Jan 16, 0001 - 1200 hrs)
  - All 22 samples analyzed were below the TEM AHERA standard.

Landfill Ambient Air Sampling Locations

- Fresh Kills (Jan 16, 0748 - 2300)
  - All 18 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location P-6) was not collected due to an equipment malfunction.
- Fresh Kills (Jan 17, 0740 - 2225)
  - All 19 samples analyzed were below the TEM AHERA standard.
- Fresh Kills (Jan 18, 0740 - 2205)
  - All 19 samples analyzed were below the TEM AHERA standard.
- Fresh Kills (Jan 17) - Particulate Monitoring (Dataram)

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- Nothing of significance reported at one station (P-2) based on daily average concentrations.

- Fresh Kills (Jan 18) - Particulate Monitoring (Dataram)
  - No particulate measurements were conducted due to an equipment malfunction.

- Fresh Kills (Jan 19) - Particulate Monitoring (Dataram)
  - No particulate measurements were conducted due to the weather conditions.

- Fresh Kills (Jan 20) - Particulate Monitoring (Dataram)
  - Nothing of significance reported at one station (P-2) based on daily average concentrations.

Ambient Air Sampling Locations

- NYC / ER (Jan 14 - 16) - Asbestos Monitoring (Particulate Monitoring Stations)
  - Monitoring sites include:
    - Park Row (Site 1)
    - Chambers St./West St. (Site 2)
    - Public School 154: 333 East 135th St, Bronx (Site 5)
    - Intermediate School 143: 511 West 182nd St., Manhattan (Site 6)
    - Public School 274: 800 Bushwick Ave., Brooklyn (Site 7)
    - Public School 44: 80 Maple Parkway, Staten Island (Site 8)
    - Public School 199: 3290 - 48th Ave., Queens (Site 9)
  - During this period a total of 20 samples were collected from these monitoring sites.
  - A sample was not collected from Site 7 on January 14 due to an equipment malfunction.
  - All of the samples were below the TEM AHERA standard.

- NYC / ER (Jan 11) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***14.41 ug/m³***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***15.25 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***14.51 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).

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- NYC / ER (Jan 11) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***22.38 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m^3).
- NYC / ER (Jan 12) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***11.13 ug/m^3***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***10.34 ug/m^3***.
  - Wall Street - 24-hour average concentrations for this period was ***8.56 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m^3).
- NYC / ER (Jan 12) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***13.11 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m^3).
- NYC / ER (Jan 13) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***8.50 ug/m^3***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***8.45 ug/m^3***.
  - Wall Street - 24-hour average concentrations for this period was ***7.13 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m^3).
- NYC / ER (Jan 13) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***10.84 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m^3).
- NYC / ER (Jan 14) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***11.63 ug/m^3***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***11.83 ug/m^3***.
  - Wall Street - 24-hour average concentrations for this period was ***13.44 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m^3).
- NYC / ER (Jan 14) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***26.12 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m^3).

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- NYC / ER (Jan 15) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***19.68 ug/m³***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***19.61 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***24.19 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Jan 15) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***37.81 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).
- NYC / ER (Jan 16) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***10.90 ug/m³***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***9.38 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***10.69 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Jan 16) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***20.16 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).
- NYC / ER (Jan 17) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***13.56 ug/m³***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was ***14.04 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***15.74 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Jan 17) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***28.67 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).
- NYC / ER (Jan 18) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***12.07 ug/m³***.
  - Chambers St./West St. (Site 2) - 24-hour average concentration for this period was

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10.75 ug/m³.

- Wall Street - 24-hour average concentrations for this period was ***13.75 ug/m³***.
- All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).

- NYC / ER (Jan 18) - Particulate Monitoring (TEOM PM_{10})

  - Wall Street - 24-hour average concentrations for this period was ***25.73 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).

- NYC / ER (Jan 18) - Particulate Monitoring (Dataram)

  - Particulate levels noted at two locations (Stations N and R) were below the OSHA TWA.
  - Instruments operated approximately 5½ hours.
  - Measurements were not conducted at Station L due to an equipment malfunction.
  - Station N values ranged from 0.0 to 83.2 ug/m³ with an average of 25.0 ug/m³.
  - Station R values ranged from 0.0 to 129.4 ug/m³ with an average of 30.5 ug/m³.

- NYC / ER (Jan 19) - Particulate Monitoring (Dataram)

  - No particulate measurements were conducted at Stations L, N, and R due to the weather conditions.

- NYC / ER (Jan 20) - Particulate Monitoring (Dataram)

  - Particulate levels noted at two locations (Stations L, N, and R) were below the OSHA TWA.
  - Instruments operated approximately 6 hours.
  - Station L values ranged from 0.4 to 63.1 ug/m³ with an average of 24.5 ug/m³.
  - Station N values ranged from 0.0 to 118.9 ug/m³ with an average of 17.5 ug/m³.
  - Station R values ranged from 9.4 to 244.7 ug/m³ with an average of 30.3 ug/m³.

- NYC / ER (Jan 18) - Volatile Organics (Mobile Laboratory)

  - Aside from one compound detected at one location, volatile organic compounds were not detected above the detection limit (20 ppbv) in any of the four samples collected (Washing Tent, Austin Tobin Plaza, North Tower, and South Tower), including in the debris area at ground level.

- NYC / ER (Jan 19) - Volatile Organics (Mobile Laboratory)

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- Benzene was not detected above the detection limit (20 ppbv) in any of the three samples collected (Washing Tent, Austin Tobin Plaza, and North Tower), including in the debris area at ground level.
- Limited number of VOCs detected above the detection limit (20 ppbv); all in the North Tower ground level sample.
- The South Tower sample was not analyzed because it was lost due to a tear in the Tedlar bag.

- NYC / ER (Jan 20) - Volatile Organics (Mobile Laboratory)

  - Aside from two compounds detected above the detection limit (20 ppbv) at two of the locations (North and South Tower ground level), volatile organic compounds were not detected at any of the four locations above the detection limit (20 ppbv).

Direct Reading Instruments

- NYC / ER (Jan 18)

  - Low levels of carbon monoxide noted at nearly all stations during the afternoon monitoring period.
  - Otherwise, nothing of significance reported.

- NYC / ER (Jan 19)

  - Several readings noted during the morning monitoring period above the carbon monoxide NAAQS (8-hour average) of 9 ppm.
  - Low levels of carbon monoxide noted at nearly all stations during the afternoon monitoring period.

- NYC / ER (Jan 20)

  - Nothing of significance reported.
  - Real-time air monitoring will no longer be conducted after January 21.

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