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WTC Sampling EPA*

**U.S. Environmental Protection Agency (www.epa.gov)
Air / Bulk / Wipe/ Water Sampling Situation Report
Friday, October 19, 2001 (2:00 PM)**

Fixed Ambient Air Sampling Locations (Asbestos)

- NYC / ER (Oct 16, 1200 to 2400 hrs)
 - All 19 samples analyzed were below the TEM AHER A standard.
 - 1 sample (Location D) was not analyzed since the pump fell off the pole.
- NJ (Oct 15)
 - All 4 samples analyzed were below the TEM AHER A standard.

Landfill Ambient Air Sampling Locations

- Fresh Kills (Oct 14, 1900 - Oct 15, 0700 hrs) - Asbestos
 - All 17 samples analyzed were below the TEM AHER A standard.
- Fresh Kills (Oct 15, 1900 - Oct 16, 0700 hrs) - Asbestos
 - All 16 samples analyzed were below the TEM AHER A standard.
 - 1 sample was not analyzed due to overloading of particulates.
- Fresh Kills (Oct 16, 0630 - 2000 hrs) - Asbestos
 - 1 of 16 samples exceeded the TEM AHER A standard.
 - Exceedance (124.44 S/m m²) occurred at Location #12 (indoor "Wash" location).
 - 1 sample was lost.
- Fresh Kills (Oct 18) - Particulate Monitoring (Dataram)
 - Nothing of significance noted based on daily average concentrations.

Ambient Air Sampling Locations

- NYC / ER (Oct 8) - Metals
 - Ten samples collected.
 - All metals were either not detected or were below applicable EPA Removal Action level guidelines, OSHA PELs, and the NAAQS for lead.
 - **Note:** Further QA/QC review of chromium in air analytical data generated in the past for the WTC monitoring effort, including the results for Oct 8th, has revealed that chromium is not present in these samples. This includes the results for samples collected on Sep 16th, Sep 23rd, Sep 27th, Oct 2nd, and Oct 4th.

- NYC / ER (Oct 11) - Metals
 - Ten samples collected.
 - All metals were either not detected or were below applicable EPA Removal Action level guidelines, OSHA PELs, and the NAAQS for lead.
 - **Note:** Further QA/QC review of chromium in air analytical data generated in the past for the WTC monitoring effort, including the results for Oct 11th, has revealed that chromium is not present in these samples. This includes the results for samples collected on Sep 16th, Sep 23rd, Sep 27th, Oct 2nd, and Oct 4th.
- NYC / ER (Oct 8) - PCBs
 - Trace amounts detected in 4 of 10 samples well below levels of concern.
 - 6 samples did not detect any PCBs.
 - All levels are below the EPA Removal Action level guidelines.
- NYC / ER (Oct 2) - Silicates
 - All 10 samples did not detect any silicates.
- NYC / ER (Oct 4) - Silicates
 - All 10 samples did not detect any silicates.
- NYC / ER (Oct 17) - Particulate Monitoring (PM_{2.5})
 - Pace University (Site 1) - 24-hr average concentration for this period was **15.50 ug/m³**.
 - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was **6.52 ug/m³**.
 - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was **5.18 ug/m³**.
 - All readings below the National Ambient Air Quality Standard for PM_{2.5} (65 ug/m³).
- NYC / ER (Oct 18) - Particulate Monitoring (Dataram)
 - Particulate levels noted at three locations (Stations L, N, R) were below the OSHA TWA.
 - Instruments operated between 8 to 9.5 hours.
 - Station L values ranged from 0 to 37.4 ug/m³ with an average of 17.8 ug/m³.
 - Station N values ranged from 4.4 to 23.9 ug/m³ with an average of 8.8 ug/m³.
 - Station R values ranged from 7.2 to 71.2 ug/m³ with an average of 10.9 ug/m³.
- NYC / ER (Oct 18) - Volatile organics (TAGA)
 - These samples, and all those previously collected for VOC analysis via GC/MS in the TAGA, represent grabs collected over a period of a few minutes. The analytical results should be viewed in that context.
 - Benzene exceeded OSHA TWA PEL (1 ppm) at one location on the debris pile in the plume at ground level. **NOTE: benzene PEL was previously identified as 0.5 ppm. This concentration actually represents an OSHA action level used to trigger certain monitoring requirements.**
 - Overall VOC levels in the debris pile improved significantly from previous results.

Bulk/Dust Samples

- NYC / ER (Sep 26) - Metals
 - 1 sample obtained from the lobby at 110 Greenwich did not detect any metals above levels of concern based on EPA Removal Action level guidelines and the OSW ER Soil Lead Directive.
- NYC / ER (Oct 2) - Asbestos
 - 3 samples were collected from a sand pile located on West and Vesey Sts (Central Personal Hygiene Complex).
 - Asbestos was either not detected or at less than 1% chrysotile in all 3 samples.
- Fresh Kills (Oct 14) - Asbestos
 - Asbestos was not detected in all 12 samples collected from various steel and debris piles.

Wipe Samples

- P.S. 234 (Sep 29) - PCBs
 - PCBs were not detected in any of the 7 samples collected indoors.
 - 1 sample was not analyzed.

Direct Reading Instruments

- NYC / ER (Oct 18)
 - Overall increase in CO readings noted.
 - Several readings noted in the early afternoon above the NAAQS (8 hr. average) of 9 ppm, but below the NAAQS (1 hr. average) of 35 ppm and the OSHA PEL of 50 ppm.

Ambient Water Monitoring

- NYC / ER (Oct 18) - Exchange Place PATH Dewatering
 - 5-day BOD reported as 160 mg/l.
 - Results more than double the level detected in the Oct 3 sample collected at the same location and about four times greater than the Newton Creek STP effluent of Sep 15/16.