

**U.S. Environmental Protection Agency
Air / Bulk / Wipe/ Water Sampling Situation Report
Monday, October 1, 2001 (3:00 pm)**

Fixed Ambient Air Sampling Locations (Asbestos)

- NYC / ER (Sept 28, 12 noon - 12 midnight)
 - 6 of 17 samples were above the NYC reentry standard for PCM. All 17 samples were below the TEM standard.
- NYC / ER (Sept 29, 12 midnight - 12 noon)
 - 7 of 16 samples were above the NYC reentry standard for PCM. 2 of the 16 samples were above the TEM standard (Locations E and K).
- NJ (Sept 29, 9:45AM - Sept 30, 10:30AM)
 - All 4 samples were below both the PCM and TEM standards.

Landfill Air Sampling Locations

- Fresh Kills (Sept 29, 7:00AM - 7:00PM) - Asbestos
 - All 11 samples were below both the PCM and TEM standards.
- Fresh Kills (Sept 28, 29) - Particulate Monitoring
 - Nothing of significance to report based on average daily concentrations.
 - No data collected on Sept. 27, 30, and October 1 due to weather conditions.

Ambient Air Sampling Locations (Metals)

- NYC / ER (Sept 27)
 - Ten samples collected.
 - 1 sample exceeded the National Ambient Air Quality Standard (1.5 ug/m³ based on a 24 hour, 3 month period) for lead at Barclay/West Broadway, however does not exceed the NIOSH standard.
 - Lead level lower than sample previously taken at that location (and two other locations).
 - Chromium levels were identified at 9 locations above the EPA Removal Action guidance levels. However, all levels were below the removal action level adjusted to a 1-year exposure duration and do not exceed the most conservative NIOSH chromium standard (1 ug/m³).
 - Although the lead and chromium levels are elevated, they are not a short-term concern.
 - Regulatory standards and guidelines for lead and chromium are based on long-term exposure.

Ambient Air Sampling Locations (TAGA - volatile organics)

- NYC / ER (Sept 30)
 - Benzene exceeded OSHA TWA PEL (0.5 ppm) at two locations on the debris pile in the plume at ground level (across from Liberty/Greenwich).

- Benzyl chloride slightly exceeded OSHA TWA PEL (1.0 ppm) at one location on the debris pile in the plume at ground level (across from Liberty/Greenwich).
- Samples collected at the intersection of Liberty/Greenwich did not detect either of these compounds.
- All other results below occupational standards.

Direct Reading Instruments

- NYC / ER (Sept 30) - nothing of significance identified.

OENHP SAMPLING DATA – Gathered 10-02-01

Proprietor: Operating Engineers National Hazmat Program

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Date and Time: 9/27/01

Substance: Total dust, inorganic acid gases, VOCs, heavy metals

Matrix: Air (filters, charcoal tubes, and silica gel)

Locations: Various, generally on or near WTC piles

Name of Laboratory: Galson Laboratories

Date and Time of Analysis: 9/28/01

Analysis Results: See attached Excel File (OENHP Sampling Results 10-02-01.xls)

Result Units: for total dust: mg/m^3
for VOC: mg/m^3 (except for blank, which is in μg)
for inorganic acid gases: mg/m^3 and ppm (see file)
for heavy metals: mg/m^3 and ppm (see file) (blanks listed in μg)

Analysis method: for total dust: NMAM 0500 (gravimetric)
for VOC: NMAM 3700 (multiple VOCs)
for inorganic acid gases: NMAM 7903; ICP
for heavy metals: modified NMAM 7300; ICP

Detection Limit: total dust: 0.15 mg
VOCs, inorganic acid gases, and heavy metals: vary according to compound

Standard: PEL: total dust (particulate not otherwise regulated): $15 \text{ mg}/\text{m}^3$
VOC's, inorganic acid gases, and heavy metals: vary according to compound

Interpretation:

- The total dust sample was below the PEL.
- All VOCs, inorganic acids, and heavy metals were less than the limit of quantification, with the exception of sulfuric acid. Sulfuric acid ($0.3 \text{ mg}/\text{m}^3$) was not corrected for the blank at the lab. The sample is still less than the PEL of $1 \text{ mg}/\text{m}^3$ without the correction.